TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica St. Louis
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Earth City, MO 63045
Tel: (314)298-8566

TestAmerica Job ID: 160-22211-1
Client Project/Site: Groundwater -2nd Quarter Sampling Event

For:
Missouri Attorney General's Office
PO BOX 899
Jefferson City, Missouri 65102

Attn: Brenna McDonald

Authorized for release by:
6/14/2017 5:38:57 AM

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 160-22211-1

Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

Client: Missouri Attorney General's Office

Project: Groundwater - 2nd Quarter 2017 Sampling Event

Report Number: 160-22211-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica St. Louis attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results for Chemistry analyses are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header. All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy unless requested as wet weight by the client.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 05/05/2017; the samples arrived in good condition, properly preserved and, where required, on ice. The temperatures of the 2 coolers at receipt time were 13.0º C and 18.0º C.

VOLATILE ORGANIC COMPOUNDS (GC MS)

Samples PZ-106-SD (160-22211-1), PZ-205-SS (160-22211-2), PZ-106-SS (160-22211-3), PZ-100-SD (160-22211-4), PZ-100-SS (160-22211-5), PZ-201A-SS (160-22211-6), PZ-212-SD (160-22211-7), PZ-105-SS (160-22211-8), PZ-212-SS (160-22211-9) and TRIP BLANK (160-22211-10) were analyzed for volatile organic compounds (GC MS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 05/14/2017.

The following compounds did not meet the minimum relative response factor limits in the continuing calibration verification (CCV) associated with batch 160-308482: Acetone and 2-Butanone (MEK). A low-level LOQV was analyzed at the reporting limit (5ug/L) and the affected analytes were detected. Target analytes recovering above the reporting limit will be qualified and reported. (CCVIS 160-308482/3)

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

TOTAL METALS (ICP)

Job ID: 160-22211-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

Samples PZ-106-SD (160-22211-1), PZ-205-SS (160-22211-2), PZ-106-SS (160-22211-3), PZ-100-SD (160-22211-4), PZ-100-SS (160-22211-5), PZ-201A-SS (160-22211-6), PZ-212-SD (160-22211-7), PZ-105-SS (160-22211-8) and PZ-212-SS (160-22211-9) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 05/09/2017 and analyzed on 05/16/2017.

The following samples in preparation batch 160-307841 and analytical batch 160-308716 were diluted to bring the concentration of target analytes within the calibration range: PZ-106-SD (160-22211-1), PZ-205-SS (160-22211-2), PZ-106-SS (160-22211-3), PZ-100-SD (160-22211-4), PZ-100-SS (160-22211-5), PZ-201A-SS (160-22211-6), PZ-212-SD (160-22211-7), PZ-105-SS (160-22211-8), PZ-212-SS (160-22211-9), (160-22141-I-1-A ^5), (160-22141-I-1-B MS ^), (160-22141-I-1-C MSD) and (160-22141-I-1-A SD ^). Elevated reporting limits (RLs) are provided.

Due to the high concentration of calcium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 160-307841 and analytical batch 160-308716 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria. (160-22141-I-1-B MS ^) and (160-22141-I-1-C MSD)

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

TOTAL MERCURY

Samples PZ-106-SD (160-22211-1), PZ-205-SS (160-22211-2), PZ-106-SS (160-22211-3), PZ-100-SD (160-22211-4), PZ-100-SS (160-22211-5), PZ-201A-SS (160-22211-6), PZ-212-SD (160-22211-7), PZ-105-SS (160-22211-8) and PZ-212-SS (160-22211-9) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 05/22/2017.

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

TOTAL DISSOLVED SOLIDS

Samples PZ-106-SD (160-22211-1), PZ-205-SS (160-22211-2), PZ-106-SS (160-22211-3), PZ-100-SD (160-22211-4), PZ-100-SS (160-22211-5), PZ-201A-SS (160-22211-6), PZ-212-SD (160-22211-7), PZ-105-SS (160-22211-8) and PZ-212-SS (160-22211-9) were analyzed for total dissolved solids in accordance with EPA Method 160.1. The samples were analyzed on 05/11/2017.

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

ANIONS, ION CHROMATOGRAPHY

Samples PZ-106-SD (160-22211-1), PZ-205-SS (160-22211-2), PZ-106-SS (160-22211-3), PZ-100-SD (160-22211-4), PZ-100-SS (160-22211-5), PZ-201A-SS (160-22211-6), PZ-212-SD (160-22211-7), PZ-105-SS (160-22211-8) and PZ-212-SS (160-22211-9) were analyzed for Anions, Ion Chromatography in accordance with EPA Method 300.0. The samples were analyzed on 05/09/2017, 05/10/2017 and 06/10/2017.

The following samples in Anion batch 160-307867 were diluted to bring the concentrations of Chloride within the calibration range: PZ-106-SD (160-22211-1), PZ-205-SS (160-22211-2), PZ-106-SS (160-22211-3), PZ-100-SD (160-22211-4), PZ-100-SS (160-22211-5), PZ-201A-SS (160-22211-6), PZ-212-SD (160-22211-7), PZ-105-SS (160-22211-8) and PZ-212-SS (160-22211-9). Elevated reporting limits (RLs) are provided.

The following samples in Anion batch 160-312598 were diluted to bring the concentrations of target analytes within the calibration range: PZ-106-SD (160-22211-1), PZ-205-SS (160-22211-2), PZ-106-SS (160-22211-3), PZ-100-SD (160-22211-4), PZ-100-SS (160-22211-5), PZ-201A-SS (160-22211-6), PZ-212-SD (160-22211-7), PZ-105-SS (160-22211-8) and PZ-212-SS (160-22211-9). Elevated reporting limits (RLs) are provided.

The following samples in Anion batch 160-312598 were re-analyzed out of 28 day holding time in this batch for Fluoride and Sulfate: PZ-106-SD (160-22211-1), PZ-205-SS (160-22211-2), PZ-106-SS (160-22211-3), PZ-100-SD (160-22211-4), PZ-100-SS (160-22211-5), PZ-201A-SS (160-22211-6), PZ-212-SD (160-22211-7), PZ-105-SS (160-22211-8) and PZ-212-SS (160-22211-9). The previous in-hold runs for Chloride were not reportable for Fluoride and Sulfate from the same dilutions, thus out of hold reanalysis was required. The samples were analyzed approximately 10 days outside of holding time, and are within two times hold.

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

Job ID: 160-22211-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

AMMONIA

Samples PZ-106-SD (160-22211-1), PZ-205-SS (160-22211-2), PZ-106-SS (160-22211-3), PZ-100-SD (160-22211-4), PZ-100-SS (160-22211-5), PZ-201A-SS (160-22211-6), PZ-212-SD (160-22211-7), PZ-105-SS (160-22211-8) and PZ-212-SS (160-22211-9) were analyzed for ammonia in accordance with EPA Method 350.1. The samples were analyzed on 05/25/2017 and 05/31/2017.

Ammonia in analytical batch 160-310709 was detected in method blank MB 160-310709/15 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

The following samples in Ammonia analytical batch 160-310709 were diluted to bring the concentration of the target analyte within the calibration range: PZ-106-SD (160-22211-1). Elevated reporting limits (RLs) are provided.

The following matrix spike (MS) recoveries for Ammonia analytical batch 160-310709 were outside control limits: (160-22117-G-2 MS ^10) and (160-22211-D-1 MS ^20). Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

The following matrix spike (MS) recoveries for Ammonia analytical batch 160-311549 were outside control limits: (160-22238-D-2 MS). Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

NITROGEN, NITRATE-NITRITE

Samples PZ-106-SD (160-22211-1), PZ-205-SS (160-22211-2), PZ-106-SS (160-22211-3), PZ-100-SD (160-22211-4), PZ-100-SS (160-22211-5), PZ-201A-SS (160-22211-6), PZ-212-SD (160-22211-7), PZ-105-SS (160-22211-8) and PZ-212-SS (160-22211-9) were analyzed for Nitrogen, Nitrate-Nitrite in accordance with Method 353.1 Preserved. The samples were analyzed on 05/23/2017 and 05/25/2017.

Nitrate Nitrite as N in analytical batch 160-310165 was detected in method blank MB 160-310165/17 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

The following matrix spike (MS) recoveries for Nitrate-Nitrite analytical batch 160-310165 were outside control limits: (160-22117-G-2 MS) and (160-22211-D-1 MS). Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits, as well as the historical poor performance of matrix spikes from this client.

The following matrix spike (MS) recoveries for Nitrate-Nitrite analytical batch 160-310708 were outside control limits: (160-22238-D-2 MS). Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits, as well as the historical poor performance of matrix spikes from this client.

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

CHEMICAL OXYGEN DEMAND

Samples PZ-106-SD (160-22211-1), PZ-205-SS (160-22211-2), PZ-106-SS (160-22211-3), PZ-100-SD (160-22211-4), PZ-100-SS (160-22211-5), PZ-201A-SS (160-22211-6), PZ-212-SD (160-22211-7), PZ-105-SS (160-22211-8) and PZ-212-SS (160-22211-9) were analyzed for chemical oxygen demand in accordance with EPA Method 410.4. The samples were prepared and analyzed on 05/30/2017.

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

TOTAL ORGANIC CARBON

Samples PZ-106-SD (160-22211-1), PZ-205-SS (160-22211-2), PZ-106-SS (160-22211-3), PZ-100-SD (160-22211-4), PZ-100-SS (160-22211-5), PZ-201A-SS (160-22211-6), PZ-212-SD (160-22211-7), PZ-105-SS (160-22211-8) and PZ-212-SS (160-22211-9) were analyzed for total organic carbon in accordance with EPA Method 415.1. The samples were analyzed on 05/22/2017 and 06/03/2017.

The following samples in TOC batch 160-310102 were diluted to bring the concentrations of the target analyte within the calibration range: PZ-106-SD (160-22211-1) and PZ-106-SS (160-22211-3). Elevated reporting limits (RLs) are provided.

Job ID: 160-22211-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

The following sample in TOC batch 160-311962 was originally analyzed at dilution due to sample odor and appearance that indicated a potential high concentration of the target analyte. However, the initial, in-hold result was not reportable due to over-dilution of the sample: PZ-212-SD (160-22211-7). The sample was then re-analyzed, undiluted, but injected 1 day out of the 28 day holding time. The re-analysis result is reported with this narration.

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

TRITIUM, TOTAL (LSC)

Samples PZ-106-SD (160-22211-1), PZ-205-SS (160-22211-2), PZ-106-SS (160-22211-3), PZ-100-SD (160-22211-4), PZ-100-SS (160-22211-5), PZ-201A-SS (160-22211-6), PZ-212-SD (160-22211-7), PZ-105-SS (160-22211-8) and PZ-212-SS (160-22211-9) were analyzed for Tritium, Total (LSC) in accordance with USEPA 906.0. The samples were prepared on 05/31/2017 and analyzed on 05/31/2017 and 06/01/2017.

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

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Earth City, MO 63045
Phone (314) 298-8566 Fax (314) 298-8757

Chain of Custody Record

TestAmerica ENVIRONMENTAL TESTING

160-22211 Chain of Custody

Client Information	Sampler: Brenna McDonald	Lab PM: Lambert-Sykes, Chenise Y	1
Client Contact: Brenna McDonald	Phone: 573-453-4329	E-Mail: chenise.lambert-sykes@testamerica	
Company: Missouri Attorney General's Office			
Address: PO BOX 899	Due Date Requested:		
City: Jefferson City	TAT Requested (days): Standard		
State, Zip: MO, 65102			
Phone: 573-368-2163(Tel)	PO #: Purchase Order not required		
Email: brenna.mcdonald@dnr.mo.gov	WO #:		
Project Name: Groundwater - May 2017 Sampling Event	Project #: 16006007		
Site: Bridgeton Landfill	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	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)	906.0 - Tritium	350.1, 353.1_Pres, 365.2, 410.4_LL	160.1_Calcd, 300_ORGFM_28D	6010C - Metals	415.1 - TOC	8260C - (MOD) CILM 4.2	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	S	N	D	S	A		
PZ-106-SP	5/4/17	1642	G	Water			✓	✓	✓	✓	✓	✓		
PZ-205-SS	5/4/17	1533	G	Water			✓	✓	✓	✓	✓	✓		
3 PZ-106-SS	5/4/17	1753	G	Water			✓	✓	✓	✓	✓	✓		
PZ-100-SD	5/5/17	0904	G	Water			✓	✓	✓	✓	✓	✓		
PZ-100-SS	5/5/17	0949	G	Water			✓	✓	✓	✓	✓	✓		
PZ-201A-SS	5/5/17	1043	G	W			✓	✓	✓	✓	✓	✓		
PZ-212-SD	5/5/17	1437	G	W			✓	✓	✓	✓	✓	✓		
PZ-105-SS	5/5/17	1219	G	W			✓	✓	✓	✓	✓	✓		
PZ-212-SS	5/5/17	1548	G	W			✓	✓	✓	✓	✓	✓		
Trip Blank	5/4/17	0800	G	W			✓	✓	✓	✓	✓	✓		Just VOA analysis

no Brenna McDonald

Possible Hazard Identification	Sample Disposal (A fee may be assessed if samples are retained longer than 1 month)
☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological	☐ 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
Brenna McDonald	5/5/17 1640			5/5/17 1640	TA
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

6/14/2017

Login Sample Receipt Checklist

Client: Missouri Attorney General's Office

Job Number: 160-22211-1

Login Number: 22211
List Number: 1
Creator: Clarke, Jill C

List Source: TestAmerica St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	Received same day of collection; chilling process has begun.
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 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").	False	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

HPLC/IC

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

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)

Glossary (Continued)

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

Method Summary

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22211-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL SL
300.0	Anions, Ion Chromatography	MCAWW	TAL SL
6010C	Metals (ICP)	SW846	TAL SL
7470A	Mercury (CVAA)	SW846	TAL SL
160.1	Solids, Total Dissolved (TDS)	MCAWW	TAL SL
350.1	Nitrogen, Ammonia	MCAWW	TAL SL
353.1 Preserved	Nitrogen, Nitrate-Nitrite	MCAWW	TAL SL
410.4	COD	MCAWW	TAL SL
415.1	TOC	MCAWW	TAL SL
906.0	Tritium, Total (LSC)	EPA	TAL SL

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.

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

Laboratory References:

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22211-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-22211-1	PZ-106-SD	Water	05/04/17 16:52	05/05/17 16:40
160-22211-2	PZ-205-SS	Water	05/04/17 15:33	05/05/17 16:40
160-22211-3	PZ-106-SS	Water	05/04/17 17:53	05/05/17 16:40
160-22211-4	PZ-100-SD	Water	05/05/17 09:04	05/05/17 16:40
160-22211-5	PZ-100-SS	Water	05/05/17 09:49	05/05/17 16:40
160-22211-6	PZ-201A-SS	Water	05/05/17 10:43	05/05/17 16:40
160-22211-7	PZ-212-SD	Water	05/05/17 14:37	05/05/17 16:40
160-22211-8	PZ-105-SS	Water	05/05/17 12:19	05/05/17 16:40
160-22211-9	PZ-212-SS	Water	05/05/17 15:48	05/05/17 16:40
160-22211-10	TRIP BLANK	Water	05/04/17 08:00	05/05/17 16:40

Detection Summary

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22211-1

Client Sample ID: PZ-106-SD — Lab Sample ID: 160-22211-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.0	J	5.0	0.25	ug/L	1		8260C	Total/NA
Iodide	1.1		1.0	0.10	mg/L	1		300.0	Total/NA
Chloride - DL	130		10	1.0	mg/L	50		300.0	Total/NA
Fluoride - DL	1.4	H	0.50	0.13	mg/L	5		300.0	Total/NA
Sulfate - DL	55	H	2.5	0.25	mg/L	5		300.0	Total/NA
Iron	1100		500	150	ug/L	5		6010C	Total/NA
Barium	350		250	75	ug/L	5		6010C	Total/NA
Boron	530		500	130	ug/L	5		6010C	Total/NA
CaHard	230000		12000	3700	ug/L	5		6010C	Total/NA
Calcium	90000		5000	1500	ug/L	5		6010C	Total/NA
Magnesium	60		5.0	1.5	mg/L	5		6010C	Total/NA
Manganese	32	J	75	20	ug/L	5		6010C	Total/NA
MgHard	250000		21000	6200	ug/L	5		6010C	Total/NA
Sodium	100000		5000	1500	ug/L	5		6010C	Total/NA
Total Hardness	470000		33000	9900	ug/L	5		6010C	Total/NA
Total Dissolved Solids (TDS)	810		5.0	3.5	mg/L	1		160.1	Total/NA
Chemical Oxygen Demand	61		5.0	2.4	mg/L	1		410.4	Total/NA
Ammonia - DL	27000	B F1	1000	450	ug/L	20		350.1	Total/NA
Total Organic Carbon - DL	18		5.0	3.6	mg/L	5		415.1	Total/NA

Client Sample ID: PZ-205-SS — Lab Sample ID: 160-22211-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.33	H	0.10	0.026	mg/L	1		300.0	Total/NA
Chloride - DL	34		5.0	0.50	mg/L	25		300.0	Total/NA
Sulfate - DL	50	H	10	1.0	mg/L	20		300.0	Total/NA
Iron	250	J	500	150	ug/L	5		6010C	Total/NA
Barium	150	J	250	75	ug/L	5		6010C	Total/NA
CaHard	260000		12000	3700	ug/L	5		6010C	Total/NA
Calcium	100000		5000	1500	ug/L	5		6010C	Total/NA
Magnesium	59		5.0	1.5	mg/L	5		6010C	Total/NA
MgHard	240000		21000	6200	ug/L	5		6010C	Total/NA
Sodium	16000		5000	1500	ug/L	5		6010C	Total/NA
Total Hardness	500000		33000	9900	ug/L	5		6010C	Total/NA
Total Dissolved Solids (TDS)	550		5.0	3.5	mg/L	1		160.1	Total/NA
Ammonia	170	B	50	22	ug/L	1		350.1	Total/NA
Chemical Oxygen Demand	3.0	J	5.0	2.4	mg/L	1		410.4	Total/NA
Total Organic Carbon	2.3		1.0	0.72	mg/L	1		415.1	Total/NA

Client Sample ID: PZ-106-SS — Lab Sample ID: 160-22211-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iodide	0.14	J	1.0	0.10	mg/L	1		300.0	Total/NA
Chloride - DL	47		5.0	0.50	mg/L	25		300.0	Total/NA
Fluoride - DL	1.9	H	0.50	0.13	mg/L	5		300.0	Total/NA
Sulfate - DL	47	H	2.5	0.25	mg/L	5		300.0	Total/NA
Iron	2600		500	150	ug/L	5		6010C	Total/NA
Barium	190	J	250	75	ug/L	5		6010C	Total/NA
CaHard	280000		12000	3700	ug/L	5		6010C	Total/NA
Calcium	110000		5000	1500	ug/L	5		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22211-1

Client Sample ID: PZ-106-SS (Continued) — Lab Sample ID: 160-22211-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Magnesium	55		5.0	1.5	mg/L	5		6010C	Total/NA
Manganese	21	J	75	20	ug/L	5		6010C	Total/NA
MgHard	230000		21000	6200	ug/L	5		6010C	Total/NA
Sodium	31000		5000	1500	ug/L	5		6010C	Total/NA
Total Hardness	500000		33000	9900	ug/L	5		6010C	Total/NA
Total Dissolved Solids (TDS)	600		5.0	3.5	mg/L	1		160.1	Total/NA
Ammonia	250	B	50	22	ug/L	1		350.1	Total/NA
Chemical Oxygen Demand	21		5.0	2.4	mg/L	1		410.4	Total/NA
Total Organic Carbon - DL	6.2		2.0	1.4	mg/L	2		415.1	Total/NA

Client Sample ID: PZ-100-SD — Lab Sample ID: 160-22211-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride - DL	0.97		0.40	0.040	mg/L	2		300.0	Total/NA
Fluoride - DL	2.0	H	0.50	0.13	mg/L	5		300.0	Total/NA
Sulfate - DL	9.5	H	2.5	0.25	mg/L	5		300.0	Total/NA
Iron	740		500	150	ug/L	5		6010C	Total/NA
Barium	340		250	75	ug/L	5		6010C	Total/NA
CaHard	200000		12000	3700	ug/L	5		6010C	Total/NA
Calcium	78000		5000	1500	ug/L	5		6010C	Total/NA
Magnesium	37		5.0	1.5	mg/L	5		6010C	Total/NA
Manganese	62	J	75	20	ug/L	5		6010C	Total/NA
MgHard	150000		21000	6200	ug/L	5		6010C	Total/NA
Sodium	7000		5000	1500	ug/L	5		6010C	Total/NA
Total Hardness	350000		33000	9900	ug/L	5		6010C	Total/NA
Total Dissolved Solids (TDS)	350		5.0	3.5	mg/L	1		160.1	Total/NA
Ammonia	430	B	50	22	ug/L	1		350.1	Total/NA
Total Organic Carbon	1.7		1.0	0.72	mg/L	1		415.1	Total/NA

Client Sample ID: PZ-100-SS — Lab Sample ID: 160-22211-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride - DL	4.0		2.0	0.20	mg/L	10		300.0	Total/NA
Fluoride - DL	0.55	H	0.20	0.052	mg/L	2		300.0	Total/NA
Sulfate - DL	36	H	1.0	0.10	mg/L	2		300.0	Total/NA
Boron	130	J	500	130	ug/L	5		6010C	Total/NA
CaHard	230000		12000	3700	ug/L	5		6010C	Total/NA
Calcium	93000		5000	1500	ug/L	5		6010C	Total/NA
Magnesium	54		5.0	1.5	mg/L	5		6010C	Total/NA
MgHard	220000		21000	6200	ug/L	5		6010C	Total/NA
Sodium	11000		5000	1500	ug/L	5		6010C	Total/NA
Total Hardness	450000		33000	9900	ug/L	5		6010C	Total/NA
Total Dissolved Solids (TDS)	480		5.0	3.5	mg/L	1		160.1	Total/NA
Ammonia	160	B	50	22	ug/L	1		350.1	Total/NA
Total Organic Carbon	1.7		1.0	0.72	mg/L	1		415.1	Total/NA

Client Sample ID: PZ-201A-SS — Lab Sample ID: 160-22211-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.27	H	0.10	0.026	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22211-1

Client Sample ID: PZ-201A-SS (Continued) — Lab Sample ID: 160-22211-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride - DL	3.2		2.0	0.20	mg/L	10		300.0	Total/NA
Sulfate - DL	64	H	5.0	0.50	mg/L	10		300.0	Total/NA
Barium	140	J	250	75	ug/L	5		6010C	Total/NA
CaHard	240000		12000	3700	ug/L	5		6010C	Total/NA
Calcium	97000		5000	1500	ug/L	5		6010C	Total/NA
Magnesium	49		5.0	1.5	mg/L	5		6010C	Total/NA
MgHard	200000		21000	6200	ug/L	5		6010C	Total/NA
Sodium	12000		5000	1500	ug/L	5		6010C	Total/NA
Total Hardness	440000		33000	9900	ug/L	5		6010C	Total/NA
Total Dissolved Solids (TDS)	490		5.0	3.5	mg/L	1		160.1	Total/NA
Ammonia	45	J B	50	22	ug/L	1		350.1	Total/NA
Nitrate Nitrite as N	26	J B	50	22	ug/L	1		353.1 Preserved	Total/NA
Chemical Oxygen Demand	7.0		5.0	2.4	mg/L	1		410.4	Total/NA
Total Organic Carbon	1.4		1.0	0.72	mg/L	1		415.1	Total/NA

Client Sample ID: PZ-212-SD — Lab Sample ID: 160-22211-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.16	H	0.10	0.026	mg/L	1		300.0	Total/NA
Chloride - DL	140		10	1.0	mg/L	50		300.0	Total/NA
Sulfate - DL	78	H	10	1.0	mg/L	20		300.0	Total/NA
Iron	570		500	150	ug/L	5		6010C	Total/NA
Barium	240	J	250	75	ug/L	5		6010C	Total/NA
CaHard	300000		12000	3700	ug/L	5		6010C	Total/NA
Calcium	120000		5000	1500	ug/L	5		6010C	Total/NA
Magnesium	58		5.0	1.5	mg/L	5		6010C	Total/NA
Manganese	810		75	20	ug/L	5		6010C	Total/NA
MgHard	240000		21000	6200	ug/L	5		6010C	Total/NA
Phosphorus	1400		1300	380	ug/L	5		6010C	Total/NA
Sodium	51000		5000	1500	ug/L	5		6010C	Total/NA
Total Hardness	540000		33000	9900	ug/L	5		6010C	Total/NA
Total Dissolved Solids (TDS)	700		5.0	3.5	mg/L	1		160.1	Total/NA
Ammonia	160		50	22	ug/L	1		350.1	Total/NA
Chemical Oxygen Demand	7.0		5.0	2.4	mg/L	1		410.4	Total/NA
Total Organic Carbon	3.0	H	1.0	0.72	mg/L	1		415.1	Total/NA

Client Sample ID: PZ-105-SS — Lab Sample ID: 160-22211-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.45	H	0.10	0.026	mg/L	1		300.0	Total/NA
Chloride - DL	69		10	1.0	mg/L	50		300.0	Total/NA
Sulfate - DL	48	H	10	1.0	mg/L	20		300.0	Total/NA
Iron	2500		500	150	ug/L	5		6010C	Total/NA
Barium	190	J	250	75	ug/L	5		6010C	Total/NA
CaHard	270000		12000	3700	ug/L	5		6010C	Total/NA
Calcium	110000		5000	1500	ug/L	5		6010C	Total/NA
Magnesium	58		5.0	1.5	mg/L	5		6010C	Total/NA
Manganese	98		75	20	ug/L	5		6010C	Total/NA
MgHard	240000		21000	6200	ug/L	5		6010C	Total/NA
Sodium	44000		5000	1500	ug/L	5		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22211-1

Client Sample ID: PZ-105-SS (Continued) — Lab Sample ID: 160-22211-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Hardness	510000		33000	9900	ug/L	5		6010C	Total/NA
Total Dissolved Solids (TDS)	650		5.0	3.5	mg/L	1		160.1	Total/NA
Ammonia	75		50	22	ug/L	1		350.1	Total/NA
Total Organic Carbon	3.1		1.0	0.72	mg/L	1		415.1	Total/NA

Client Sample ID: PZ-212-SS — Lab Sample ID: 160-22211-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Fluoride	0.34	H	0.10	0.026	mg/L	1		300.0	Total/NA
Chloride - DL	6.8		2.0	0.20	mg/L	10		300.0	Total/NA
Sulfate - DL	110	H	10	1.0	mg/L	20		300.0	Total/NA
Iron	1100		500	150	ug/L	5		6010C	Total/NA
Barium	80	J	250	75	ug/L	5		6010C	Total/NA
CaHard	310000		12000	3700	ug/L	5		6010C	Total/NA
Calcium	120000		5000	1500	ug/L	5		6010C	Total/NA
Magnesium	29		5.0	1.5	mg/L	5		6010C	Total/NA
Manganese	73	J	75	20	ug/L	5		6010C	Total/NA
MgHard	120000		21000	6200	ug/L	5		6010C	Total/NA
Sodium	23000		5000	1500	ug/L	5		6010C	Total/NA
Total Hardness	430000		33000	9900	ug/L	5		6010C	Total/NA
Total Dissolved Solids (TDS)	550		5.0	3.5	mg/L	1		160.1	Total/NA
Ammonia	76		50	22	ug/L	1		350.1	Total/NA
Total Organic Carbon	1.4		1.0	0.72	mg/L	1		415.1	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 160-22211-10

No Detections.

This Detection Summary does not include radiochemical test results.

Client Sample ID: PZ-106-SD

Date Collected: 05/04/17 16:52
Date Received: 05/05/17 16:40

Lab Sample ID: 160-22211-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/14/17 19:20	1
Acrylonitrile	ND		50	1.7	ug/L			05/14/17 19:20	1
Benzene	**1.0**	**J**	5.0	0.25	ug/L			05/14/17 19:20	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/14/17 19:20	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/14/17 19:20	1
Bromoform	ND		5.0	0.37	ug/L			05/14/17 19:20	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/14/17 19:20	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/14/17 19:20	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/14/17 19:20	1
Chloroethane	ND		10	0.38	ug/L			05/14/17 19:20	1
Chloroform	ND		5.0	0.15	ug/L			05/14/17 19:20	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/14/17 19:20	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/14/17 19:20	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/14/17 19:20	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/14/17 19:20	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/14/17 19:20	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/14/17 19:20	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/14/17 19:20	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/14/17 19:20	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/14/17 19:20	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/14/17 19:20	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/14/17 19:20	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/14/17 19:20	1
2-Hexanone	ND		20	0.59	ug/L			05/14/17 19:20	1
Methyl bromide	ND		10	0.40	ug/L			05/14/17 19:20	1
Methyl chloride	ND		10	0.55	ug/L			05/14/17 19:20	1
Methylene bromide	ND		5.0	0.41	ug/L			05/14/17 19:20	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/14/17 19:20	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/14/17 19:20	1
Methyl iodide	ND		5.0	1.5	ug/L			05/14/17 19:20	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/14/17 19:20	1
Styrene	ND		5.0	0.35	ug/L			05/14/17 19:20	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/14/17 19:20	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/14/17 19:20	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/14/17 19:20	1
Toluene	ND		5.0	1.0	ug/L			05/14/17 19:20	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/14/17 19:20	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/14/17 19:20	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/14/17 19:20	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/14/17 19:20	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/14/17 19:20	1
Trichloroethene	ND		5.0	0.29	ug/L			05/14/17 19:20	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/14/17 19:20	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/14/17 19:20	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/14/17 19:20	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/14/17 19:20	1
Xylenes, Total	ND		10	0.85	ug/L			05/14/17 19:20	1

Client Sample ID: PZ-106-SD

Date Collected: 05/04/17 16:52
Date Received: 05/05/17 16:40

Lab Sample ID: 160-22211-1

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*71 - 139*		*05/14/17 19:20*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 121*		*05/14/17 19:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*76 - 121*		*05/14/17 19:20*	*1*
Toluene-d8 (Surr)	*95*		*80 - 129*		*05/14/17 19:20*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	**1.1**		1.0	0.10	mg/L			05/09/17 11:51	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**130**		10	1.0	mg/L			05/09/17 22:41	50
Fluoride	**1.4**	**H**	0.50	0.13	mg/L			06/10/17 04:26	5
Sulfate	**55**	**H**	2.5	0.25	mg/L			06/10/17 04:26	5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:16	5
Iron	**1100**		500	150	ug/L		05/09/17 12:07	05/16/17 00:16	5
Arsenic	ND		50	20	ug/L		05/09/17 12:07	05/16/17 00:16	5
Barium	**350**		250	75	ug/L		05/09/17 12:07	05/16/17 00:16	5
Beryllium	ND		25	7.5	ug/L		05/09/17 12:07	05/16/17 00:16	5
Boron	**530**		500	130	ug/L		05/09/17 12:07	05/16/17 00:16	5
Cadmium	ND		25	7.5	ug/L		05/09/17 12:07	05/16/17 00:16	5
CaHard	**230000**		12000	3700	ug/L		05/09/17 12:07	05/16/17 00:16	5
Calcium	**90000**		5000	1500	ug/L		05/09/17 12:07	05/16/17 00:16	5
Chromium	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:16	5
Cobalt	ND		250	75	ug/L		05/09/17 12:07	05/16/17 00:16	5
Copper	ND		130	35	ug/L		05/09/17 12:07	05/16/17 00:16	5
Lead	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:16	5
Magnesium	**60**		5.0	1.5	mg/L		05/09/17 12:07	05/16/17 00:16	5
Manganese	**32**	**J**	75	20	ug/L		05/09/17 12:07	05/16/17 00:16	5
MgHard	**250000**		21000	6200	ug/L		05/09/17 12:07	05/16/17 00:16	5
Nickel	ND		0.20	0.050	mg/L		05/09/17 12:07	05/16/17 00:16	5
Phosphorus	ND		1300	380	ug/L		05/09/17 12:07	05/16/17 00:16	5
Selenium	ND		75	40	ug/L		05/09/17 12:07	05/16/17 00:16	5
Silver	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:16	5
Sodium	**100000**		5000	1500	ug/L		05/09/17 12:07	05/16/17 00:16	5
Thallium	ND		100	25	ug/L		05/09/17 12:07	05/16/17 00:16	5
Total Hardness	**470000**		33000	9900	ug/L		05/09/17 12:07	05/16/17 00:16	5
Vanadium	ND		250	130	ug/L		05/09/17 12:07	05/16/17 00:16	5
Zinc	ND		100	30	ug/L		05/09/17 12:07	05/16/17 00:16	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		05/22/17 09:55	05/22/17 20:04	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**810**		5.0	3.5	mg/L			05/11/17 07:54	1
Nitrate Nitrite as N	ND	F1	50	22	ug/L			05/23/17 17:32	1

Client Sample ID: PZ-106-SD

Lab Sample ID: 160-22211-1
Date Collected: 05/04/17 16:52
Matrix: Water
Date Received: 05/05/17 16:40

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	61		5.0	2.4	mg/L		05/30/17 08:15	05/30/17 14:00	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	27000	B F1	1000	450	ug/L			05/25/17 19:23	20
Total Organic Carbon	18		5.0	3.6	mg/L			05/22/17 21:55	5

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	4440		234	455	500	155	pCi/L	05/31/17 12:21	05/31/17 20:59	1

Client Sample ID: PZ-205-SS

Lab Sample ID: 160-22211-2
Date Collected: 05/04/17 15:33
Matrix: Water
Date Received: 05/05/17 16:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/14/17 21:00	1
Acrylonitrile	ND		50	1.7	ug/L			05/14/17 21:00	1
Benzene	ND		5.0	0.25	ug/L			05/14/17 21:00	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/14/17 21:00	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/14/17 21:00	1
Bromoform	ND		5.0	0.37	ug/L			05/14/17 21:00	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/14/17 21:00	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/14/17 21:00	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/14/17 21:00	1
Chloroethane	ND		10	0.38	ug/L			05/14/17 21:00	1
Chloroform	ND		5.0	0.15	ug/L			05/14/17 21:00	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/14/17 21:00	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/14/17 21:00	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/14/17 21:00	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/14/17 21:00	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/14/17 21:00	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/14/17 21:00	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/14/17 21:00	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/14/17 21:00	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/14/17 21:00	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/14/17 21:00	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/14/17 21:00	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/14/17 21:00	1
2-Hexanone	ND		20	0.59	ug/L			05/14/17 21:00	1
Methyl bromide	ND		10	0.40	ug/L			05/14/17 21:00	1
Methyl chloride	ND		10	0.55	ug/L			05/14/17 21:00	1
Methylene bromide	ND		5.0	0.41	ug/L			05/14/17 21:00	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/14/17 21:00	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/14/17 21:00	1
Methyl iodide	ND		5.0	1.5	ug/L			05/14/17 21:00	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/14/17 21:00	1

Client Sample ID: PZ-205-SS

Date Collected: 05/04/17 15:33
Date Received: 05/05/17 16:40

Lab Sample ID: 160-22211-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		5.0	0.35	ug/L			05/14/17 21:00	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/14/17 21:00	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/14/17 21:00	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/14/17 21:00	1
Toluene	ND		5.0	1.0	ug/L			05/14/17 21:00	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/14/17 21:00	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/14/17 21:00	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/14/17 21:00	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/14/17 21:00	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/14/17 21:00	1
Trichloroethene	ND		5.0	0.29	ug/L			05/14/17 21:00	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/14/17 21:00	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/14/17 21:00	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/14/17 21:00	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/14/17 21:00	1
Xylenes, Total	ND		10	0.85	ug/L			05/14/17 21:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*71 - 139*		*05/14/17 21:00*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 121*		*05/14/17 21:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*76 - 121*		*05/14/17 21:00*	*1*
Toluene-d8 (Surr)	*96*		*80 - 129*		*05/14/17 21:00*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.33**	**H**	0.10	0.026	mg/L			06/10/17 04:41	1
Iodide	ND		1.0	0.10	mg/L			05/09/17 13:18	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**34**		5.0	0.50	mg/L			05/10/17 00:00	25
Sulfate	**50**	**H**	10	1.0	mg/L			06/10/17 04:57	20

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:21	5
Iron	**250**	**J**	500	150	ug/L		05/09/17 12:07	05/16/17 00:21	5
Arsenic	ND		50	20	ug/L		05/09/17 12:07	05/16/17 00:21	5
Barium	**150**	**J**	250	75	ug/L		05/09/17 12:07	05/16/17 00:21	5
Beryllium	ND		25	7.5	ug/L		05/09/17 12:07	05/16/17 00:21	5
Boron	ND		500	130	ug/L		05/09/17 12:07	05/16/17 00:21	5
Cadmium	ND		25	7.5	ug/L		05/09/17 12:07	05/16/17 00:21	5
CaHard	**260000**		12000	3700	ug/L		05/09/17 12:07	05/16/17 00:21	5
Calcium	**100000**		5000	1500	ug/L		05/09/17 12:07	05/16/17 00:21	5
Chromium	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:21	5
Cobalt	ND		250	75	ug/L		05/09/17 12:07	05/16/17 00:21	5
Copper	ND		130	35	ug/L		05/09/17 12:07	05/16/17 00:21	5
Lead	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:21	5
Magnesium	**59**		5.0	1.5	mg/L		05/09/17 12:07	05/16/17 00:21	5
Manganese	ND		75	20	ug/L		05/09/17 12:07	05/16/17 00:21	5

Client Sample ID: PZ-205-SS

Date Collected: 05/04/17 15:33
Date Received: 05/05/17 16:40

Lab Sample ID: 160-22211-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MgHard	240000		21000	6200	ug/L		05/09/17 12:07	05/16/17 00:21	5
Nickel	ND		0.20	0.050	mg/L		05/09/17 12:07	05/16/17 00:21	5
Phosphorus	ND		1300	380	ug/L		05/09/17 12:07	05/16/17 00:21	5
Selenium	ND		75	40	ug/L		05/09/17 12:07	05/16/17 00:21	5
Silver	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:21	5
Sodium	16000		5000	1500	ug/L		05/09/17 12:07	05/16/17 00:21	5
Thallium	ND		100	25	ug/L		05/09/17 12:07	05/16/17 00:21	5
Total Hardness	500000		33000	9900	ug/L		05/09/17 12:07	05/16/17 00:21	5
Vanadium	ND		250	130	ug/L		05/09/17 12:07	05/16/17 00:21	5
Zinc	ND		100	30	ug/L		05/09/17 12:07	05/16/17 00:21	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		05/22/17 09:55	05/22/17 20:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	550		5.0	3.5	mg/L			05/11/17 07:54	1
Ammonia	170	B	50	22	ug/L			05/25/17 17:43	1
Nitrate Nitrite as N	ND		50	22	ug/L			05/23/17 17:38	1
Chemical Oxygen Demand	3.0	J	5.0	2.4	mg/L		05/30/17 08:15	05/30/17 14:00	1
Total Organic Carbon	2.3		1.0	0.72	mg/L			05/22/17 22:30	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-66.2	U	84.7	84.9	500	153	pCi/L	05/31/17 12:21	05/31/17 22:05	1

Client Sample ID: PZ-106-SS

Date Collected: 05/04/17 17:53
Date Received: 05/05/17 16:40

Lab Sample ID: 160-22211-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/14/17 21:25	1
Acrylonitrile	ND		50	1.7	ug/L			05/14/17 21:25	1
Benzene	ND		5.0	0.25	ug/L			05/14/17 21:25	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/14/17 21:25	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/14/17 21:25	1
Bromoform	ND		5.0	0.37	ug/L			05/14/17 21:25	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/14/17 21:25	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/14/17 21:25	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/14/17 21:25	1
Chloroethane	ND		10	0.38	ug/L			05/14/17 21:25	1
Chloroform	ND		5.0	0.15	ug/L			05/14/17 21:25	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/14/17 21:25	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/14/17 21:25	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/14/17 21:25	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/14/17 21:25	1

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22211-1

Client Sample ID: PZ-106-SS
Date Collected: 05/04/17 17:53
Date Received: 05/05/17 16:40

Lab Sample ID: 160-22211-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/14/17 21:25	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/14/17 21:25	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/14/17 21:25	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/14/17 21:25	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/14/17 21:25	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/14/17 21:25	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/14/17 21:25	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/14/17 21:25	1
2-Hexanone	ND		20	0.59	ug/L			05/14/17 21:25	1
Methyl bromide	ND		10	0.40	ug/L			05/14/17 21:25	1
Methyl chloride	ND		10	0.55	ug/L			05/14/17 21:25	1
Methylene bromide	ND		5.0	0.41	ug/L			05/14/17 21:25	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/14/17 21:25	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/14/17 21:25	1
Methyl iodide	ND		5.0	1.5	ug/L			05/14/17 21:25	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/14/17 21:25	1
Styrene	ND		5.0	0.35	ug/L			05/14/17 21:25	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/14/17 21:25	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/14/17 21:25	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/14/17 21:25	1
Toluene	ND		5.0	1.0	ug/L			05/14/17 21:25	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/14/17 21:25	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/14/17 21:25	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/14/17 21:25	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/14/17 21:25	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/14/17 21:25	1
Trichloroethene	ND		5.0	0.29	ug/L			05/14/17 21:25	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/14/17 21:25	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/14/17 21:25	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/14/17 21:25	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/14/17 21:25	1
Xylenes, Total	ND		10	0.85	ug/L			05/14/17 21:25	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*71 - 139*		*05/14/17 21:25*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 121*		*05/14/17 21:25*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*76 - 121*		*05/14/17 21:25*	*1*
Toluene-d8 (Surr)	*96*		*80 - 129*		*05/14/17 21:25*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	**0.14**	**J**	1.0	0.10	mg/L			05/09/17 14:15	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**47**		5.0	0.50	mg/L			05/10/17 00:27	25
Fluoride	**1.9**	**H**	0.50	0.13	mg/L			06/10/17 05:12	5
Sulfate	**47**	**H**	2.5	0.25	mg/L			06/10/17 05:12	5

Client Sample ID: PZ-106-SS

Date Collected: 05/04/17 17:53
Date Received: 05/05/17 16:40

Lab Sample ID: 160-22211-3

Matrix: Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:26	5
Iron	**2600**		500	150	ug/L		05/09/17 12:07	05/16/17 00:26	5
Arsenic	ND		50	20	ug/L		05/09/17 12:07	05/16/17 00:26	5
Barium	**190**	**J**	250	75	ug/L		05/09/17 12:07	05/16/17 00:26	5
Beryllium	ND		25	7.5	ug/L		05/09/17 12:07	05/16/17 00:26	5
Boron	ND		500	130	ug/L		05/09/17 12:07	05/16/17 00:26	5
Cadmium	ND		25	7.5	ug/L		05/09/17 12:07	05/16/17 00:26	5
CaHard	**280000**		12000	3700	ug/L		05/09/17 12:07	05/16/17 00:26	5
Calcium	**110000**		5000	1500	ug/L		05/09/17 12:07	05/16/17 00:26	5
Chromium	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:26	5
Cobalt	ND		250	75	ug/L		05/09/17 12:07	05/16/17 00:26	5
Copper	ND		130	35	ug/L		05/09/17 12:07	05/16/17 00:26	5
Lead	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:26	5
Magnesium	**55**		5.0	1.5	mg/L		05/09/17 12:07	05/16/17 00:26	5
Manganese	**21**	**J**	75	20	ug/L		05/09/17 12:07	05/16/17 00:26	5
MgHard	**230000**		21000	6200	ug/L		05/09/17 12:07	05/16/17 00:26	5
Nickel	ND		0.20	0.050	mg/L		05/09/17 12:07	05/16/17 00:26	5
Phosphorus	ND		1300	380	ug/L		05/09/17 12:07	05/16/17 00:26	5
Selenium	ND		75	40	ug/L		05/09/17 12:07	05/16/17 00:26	5
Silver	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:26	5
Sodium	**31000**		5000	1500	ug/L		05/09/17 12:07	05/16/17 00:26	5
Thallium	ND		100	25	ug/L		05/09/17 12:07	05/16/17 00:26	5
Total Hardness	**500000**		33000	9900	ug/L		05/09/17 12:07	05/16/17 00:26	5
Vanadium	ND		250	130	ug/L		05/09/17 12:07	05/16/17 00:26	5
Zinc	ND		100	30	ug/L		05/09/17 12:07	05/16/17 00:26	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		05/22/17 09:55	05/22/17 20:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**600**		5.0	3.5	mg/L			05/11/17 07:54	1
Ammonia	**250**	**B**	50	22	ug/L			05/25/17 17:46	1
Nitrate Nitrite as N	ND		50	22	ug/L			05/23/17 17:41	1
Chemical Oxygen Demand	**21**		5.0	2.4	mg/L		05/30/17 08:15	05/30/17 14:00	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**6.2**		2.0	1.4	mg/L			05/22/17 22:41	2

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	**297**		104	107	500	151	pCi/L	05/31/17 12:21	05/31/17 23:11	1

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22211-1

Client Sample ID: PZ-100-SD
Date Collected: 05/05/17 09:04
Date Received: 05/05/17 16:40

Lab Sample ID: 160-22211-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/14/17 21:50	1
Acrylonitrile	ND		50	1.7	ug/L			05/14/17 21:50	1
Benzene	ND		5.0	0.25	ug/L			05/14/17 21:50	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/14/17 21:50	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/14/17 21:50	1
Bromoform	ND		5.0	0.37	ug/L			05/14/17 21:50	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/14/17 21:50	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/14/17 21:50	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/14/17 21:50	1
Chloroethane	ND		10	0.38	ug/L			05/14/17 21:50	1
Chloroform	ND		5.0	0.15	ug/L			05/14/17 21:50	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/14/17 21:50	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/14/17 21:50	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/14/17 21:50	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/14/17 21:50	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/14/17 21:50	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/14/17 21:50	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/14/17 21:50	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/14/17 21:50	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/14/17 21:50	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/14/17 21:50	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/14/17 21:50	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/14/17 21:50	1
2-Hexanone	ND		20	0.59	ug/L			05/14/17 21:50	1
Methyl bromide	ND		10	0.40	ug/L			05/14/17 21:50	1
Methyl chloride	ND		10	0.55	ug/L			05/14/17 21:50	1
Methylene bromide	ND		5.0	0.41	ug/L			05/14/17 21:50	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/14/17 21:50	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/14/17 21:50	1
Methyl iodide	ND		5.0	1.5	ug/L			05/14/17 21:50	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/14/17 21:50	1
Styrene	ND		5.0	0.35	ug/L			05/14/17 21:50	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/14/17 21:50	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/14/17 21:50	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/14/17 21:50	1
Toluene	ND		5.0	1.0	ug/L			05/14/17 21:50	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/14/17 21:50	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/14/17 21:50	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/14/17 21:50	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/14/17 21:50	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/14/17 21:50	1
Trichloroethene	ND		5.0	0.29	ug/L			05/14/17 21:50	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/14/17 21:50	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/14/17 21:50	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/14/17 21:50	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/14/17 21:50	1
Xylenes, Total	ND		10	0.85	ug/L			05/14/17 21:50	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*71 - 139*		*05/14/17 21:50*	*1*

Client Sample ID: PZ-100-SD

Date Collected: 05/05/17 09:04
Date Received: 05/05/17 16:40

Lab Sample ID: 160-22211-4

Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*102*		*80 - 121*		*05/14/17 21:50*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*76 - 121*		*05/14/17 21:50*	*1*
Toluene-d8 (Surr)	*98*		*80 - 129*		*05/14/17 21:50*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	ND		1.0	0.10	mg/L			05/09/17 14:44	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**0.97**		0.40	0.040	mg/L			05/10/17 00:53	2
Fluoride	**2.0**	**H**	0.50	0.13	mg/L			06/10/17 05:27	5
Sulfate	**9.5**	**H**	2.5	0.25	mg/L			06/10/17 05:27	5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:30	5
Iron	**740**		500	150	ug/L		05/09/17 12:07	05/16/17 00:30	5
Arsenic	ND		50	20	ug/L		05/09/17 12:07	05/16/17 00:30	5
Barium	**340**		250	75	ug/L		05/09/17 12:07	05/16/17 00:30	5
Beryllium	ND		25	7.5	ug/L		05/09/17 12:07	05/16/17 00:30	5
Boron	ND		500	130	ug/L		05/09/17 12:07	05/16/17 00:30	5
Cadmium	ND		25	7.5	ug/L		05/09/17 12:07	05/16/17 00:30	5
CaHard	**200000**		12000	3700	ug/L		05/09/17 12:07	05/16/17 00:30	5
Calcium	**78000**		5000	1500	ug/L		05/09/17 12:07	05/16/17 00:30	5
Chromium	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:30	5
Cobalt	ND		250	75	ug/L		05/09/17 12:07	05/16/17 00:30	5
Copper	ND		130	35	ug/L		05/09/17 12:07	05/16/17 00:30	5
Lead	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:30	5
Magnesium	**37**		5.0	1.5	mg/L		05/09/17 12:07	05/16/17 00:30	5
Manganese	**62**	**J**	75	20	ug/L		05/09/17 12:07	05/16/17 00:30	5
MgHard	**150000**		21000	6200	ug/L		05/09/17 12:07	05/16/17 00:30	5
Nickel	ND		0.20	0.050	mg/L		05/09/17 12:07	05/16/17 00:30	5
Phosphorus	ND		1300	380	ug/L		05/09/17 12:07	05/16/17 00:30	5
Selenium	ND		75	40	ug/L		05/09/17 12:07	05/16/17 00:30	5
Silver	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:30	5
Sodium	**7000**		5000	1500	ug/L		05/09/17 12:07	05/16/17 00:30	5
Thallium	ND		100	25	ug/L		05/09/17 12:07	05/16/17 00:30	5
Total Hardness	**350000**		33000	9900	ug/L		05/09/17 12:07	05/16/17 00:30	5
Vanadium	ND		250	130	ug/L		05/09/17 12:07	05/16/17 00:30	5
Zinc	ND		100	30	ug/L		05/09/17 12:07	05/16/17 00:30	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		05/22/17 09:55	05/22/17 20:10	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**350**		5.0	3.5	mg/L			05/11/17 07:54	1
Ammonia	**430**	**B**	50	22	ug/L			05/25/17 17:48	1

Client Sample ID: PZ-100-SD

Date Collected: 05/05/17 09:04
Date Received: 05/05/17 16:40

Lab Sample ID: 160-22211-4
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		50	22	ug/L			05/23/17 17:44	1
Chemical Oxygen Demand	ND		5.0	2.4	mg/L		05/30/17 08:15	05/30/17 14:00	1
Total Organic Carbon	**1.7**		1.0	0.72	mg/L			05/22/17 22:53	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-31.1	U	89.8	89.9	500	160	pCi/L	05/31/17 12:21	06/01/17 00:17	1

Client Sample ID: PZ-100-SS

Date Collected: 05/05/17 09:49
Date Received: 05/05/17 16:40

Lab Sample ID: 160-22211-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/14/17 22:15	1
Acrylonitrile	ND		50	1.7	ug/L			05/14/17 22:15	1
Benzene	ND		5.0	0.25	ug/L			05/14/17 22:15	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/14/17 22:15	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/14/17 22:15	1
Bromoform	ND		5.0	0.37	ug/L			05/14/17 22:15	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/14/17 22:15	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/14/17 22:15	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/14/17 22:15	1
Chloroethane	ND		10	0.38	ug/L			05/14/17 22:15	1
Chloroform	ND		5.0	0.15	ug/L			05/14/17 22:15	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/14/17 22:15	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/14/17 22:15	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/14/17 22:15	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/14/17 22:15	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/14/17 22:15	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/14/17 22:15	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/14/17 22:15	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/14/17 22:15	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/14/17 22:15	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/14/17 22:15	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/14/17 22:15	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/14/17 22:15	1
2-Hexanone	ND		20	0.59	ug/L			05/14/17 22:15	1
Methyl bromide	ND		10	0.40	ug/L			05/14/17 22:15	1
Methyl chloride	ND		10	0.55	ug/L			05/14/17 22:15	1
Methylene bromide	ND		5.0	0.41	ug/L			05/14/17 22:15	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/14/17 22:15	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/14/17 22:15	1
Methyl iodide	ND		5.0	1.5	ug/L			05/14/17 22:15	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/14/17 22:15	1
Styrene	ND		5.0	0.35	ug/L			05/14/17 22:15	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/14/17 22:15	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/14/17 22:15	1

Client Sample ID: PZ-100-SS
Date Collected: 05/05/17 09:49
Date Received: 05/05/17 16:40

Lab Sample ID: 160-22211-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		5.0	0.28	ug/L			05/14/17 22:15	1
Toluene	ND		5.0	1.0	ug/L			05/14/17 22:15	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/14/17 22:15	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/14/17 22:15	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/14/17 22:15	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/14/17 22:15	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/14/17 22:15	1
Trichloroethene	ND		5.0	0.29	ug/L			05/14/17 22:15	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/14/17 22:15	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/14/17 22:15	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/14/17 22:15	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/14/17 22:15	1
Xylenes, Total	ND		10	0.85	ug/L			05/14/17 22:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*71 - 139*		*05/14/17 22:15*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 121*		*05/14/17 22:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*76 - 121*		*05/14/17 22:15*	*1*
Toluene-d8 (Surr)	*95*		*80 - 129*		*05/14/17 22:15*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	ND		1.0	0.10	mg/L			05/09/17 15:13	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**4.0**		2.0	0.20	mg/L			05/10/17 01:19	10
Fluoride	**0.55**	**H**	0.20	0.052	mg/L			06/10/17 05:43	2
Sulfate	**36**	**H**	1.0	0.10	mg/L			06/10/17 05:43	2

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:35	5
Iron	ND		500	150	ug/L		05/09/17 12:07	05/16/17 00:35	5
Arsenic	ND		50	20	ug/L		05/09/17 12:07	05/16/17 00:35	5
Barium	ND		250	75	ug/L		05/09/17 12:07	05/16/17 00:35	5
Beryllium	ND		25	7.5	ug/L		05/09/17 12:07	05/16/17 00:35	5
Boron	**130**	**J**	500	130	ug/L		05/09/17 12:07	05/16/17 00:35	5
Cadmium	ND		25	7.5	ug/L		05/09/17 12:07	05/16/17 00:35	5
CaHard	**230000**		12000	3700	ug/L		05/09/17 12:07	05/16/17 00:35	5
Calcium	**93000**		5000	1500	ug/L		05/09/17 12:07	05/16/17 00:35	5
Chromium	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:35	5
Cobalt	ND		250	75	ug/L		05/09/17 12:07	05/16/17 00:35	5
Copper	ND		130	35	ug/L		05/09/17 12:07	05/16/17 00:35	5
Lead	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:35	5
Magnesium	**54**		5.0	1.5	mg/L		05/09/17 12:07	05/16/17 00:35	5
Manganese	ND		75	20	ug/L		05/09/17 12:07	05/16/17 00:35	5
MgHard	**220000**		21000	6200	ug/L		05/09/17 12:07	05/16/17 00:35	5
Nickel	ND		0.20	0.050	mg/L		05/09/17 12:07	05/16/17 00:35	5
Phosphorus	ND		1300	380	ug/L		05/09/17 12:07	05/16/17 00:35	5

Client Sample ID: PZ-100-SS

Date Collected: 05/05/17 09:49
Date Received: 05/05/17 16:40

Lab Sample ID: 160-22211-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		75	40	ug/L		05/09/17 12:07	05/16/17 00:35	5
Silver	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:35	5
Sodium	**11000**		5000	1500	ug/L		05/09/17 12:07	05/16/17 00:35	5
Thallium	ND		100	25	ug/L		05/09/17 12:07	05/16/17 00:35	5
Total Hardness	**450000**		33000	9900	ug/L		05/09/17 12:07	05/16/17 00:35	5
Vanadium	ND		250	130	ug/L		05/09/17 12:07	05/16/17 00:35	5
Zinc	ND		100	30	ug/L		05/09/17 12:07	05/16/17 00:35	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		05/22/17 09:55	05/22/17 20:12	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**480**		5.0	3.5	mg/L			05/11/17 07:54	1
Ammonia	**160**	**B**	50	22	ug/L			05/25/17 17:51	1
Nitrate Nitrite as N	ND		50	22	ug/L			05/23/17 17:47	1
Chemical Oxygen Demand	ND		5.0	2.4	mg/L		05/30/17 08:15	05/30/17 14:00	1
Total Organic Carbon	**1.7**		1.0	0.72	mg/L			05/22/17 23:04	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	19.8	U	80.9	80.9	500	140	pCi/L	05/31/17 12:21	06/01/17 15:17	1

Client Sample ID: PZ-201A-SS

Date Collected: 05/05/17 10:43
Date Received: 05/05/17 16:40

Lab Sample ID: 160-22211-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/14/17 22:40	1
Acrylonitrile	ND		50	1.7	ug/L			05/14/17 22:40	1
Benzene	ND		5.0	0.25	ug/L			05/14/17 22:40	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/14/17 22:40	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/14/17 22:40	1
Bromoform	ND		5.0	0.37	ug/L			05/14/17 22:40	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/14/17 22:40	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/14/17 22:40	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/14/17 22:40	1
Chloroethane	ND		10	0.38	ug/L			05/14/17 22:40	1
Chloroform	ND		5.0	0.15	ug/L			05/14/17 22:40	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/14/17 22:40	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/14/17 22:40	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/14/17 22:40	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/14/17 22:40	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/14/17 22:40	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/14/17 22:40	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/14/17 22:40	1

Client Sample ID: PZ-201A-SS
Date Collected: 05/05/17 10:43
Date Received: 05/05/17 16:40

Lab Sample ID: 160-22211-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/14/17 22:40	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/14/17 22:40	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/14/17 22:40	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/14/17 22:40	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/14/17 22:40	1
2-Hexanone	ND		20	0.59	ug/L			05/14/17 22:40	1
Methyl bromide	ND		10	0.40	ug/L			05/14/17 22:40	1
Methyl chloride	ND		10	0.55	ug/L			05/14/17 22:40	1
Methylene bromide	ND		5.0	0.41	ug/L			05/14/17 22:40	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/14/17 22:40	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/14/17 22:40	1
Methyl iodide	ND		5.0	1.5	ug/L			05/14/17 22:40	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/14/17 22:40	1
Styrene	ND		5.0	0.35	ug/L			05/14/17 22:40	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/14/17 22:40	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/14/17 22:40	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/14/17 22:40	1
Toluene	ND		5.0	1.0	ug/L			05/14/17 22:40	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/14/17 22:40	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/14/17 22:40	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/14/17 22:40	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/14/17 22:40	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/14/17 22:40	1
Trichloroethene	ND		5.0	0.29	ug/L			05/14/17 22:40	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/14/17 22:40	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/14/17 22:40	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/14/17 22:40	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/14/17 22:40	1
Xylenes, Total	ND		10	0.85	ug/L			05/14/17 22:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*71 - 139*		*05/14/17 22:40*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 121*		*05/14/17 22:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*76 - 121*		*05/14/17 22:40*	*1*
Toluene-d8 (Surr)	*96*		*80 - 129*		*05/14/17 22:40*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.27**	**H**	0.10	0.026	mg/L			06/10/17 06:45	1
Iodide	ND		1.0	0.10	mg/L			05/09/17 15:42	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.2**		2.0	0.20	mg/L			05/10/17 01:46	10
Sulfate	**64**	**H**	5.0	0.50	mg/L			06/10/17 07:00	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:39	5
Iron	ND		500	150	ug/L		05/09/17 12:07	05/16/17 00:39	5

Client Sample ID: PZ-201A-SS

Date Collected: 05/05/17 10:43
Date Received: 05/05/17 16:40

Lab Sample ID: 160-22211-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		50	20	ug/L		05/09/17 12:07	05/16/17 00:39	5
Barium	**140**	**J**	250	75	ug/L		05/09/17 12:07	05/16/17 00:39	5
Beryllium	ND		25	7.5	ug/L		05/09/17 12:07	05/16/17 00:39	5
Boron	ND		500	130	ug/L		05/09/17 12:07	05/16/17 00:39	5
Cadmium	ND		25	7.5	ug/L		05/09/17 12:07	05/16/17 00:39	5
CaHard	**240000**		12000	3700	ug/L		05/09/17 12:07	05/16/17 00:39	5
Calcium	**97000**		5000	1500	ug/L		05/09/17 12:07	05/16/17 00:39	5
Chromium	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:39	5
Cobalt	ND		250	75	ug/L		05/09/17 12:07	05/16/17 00:39	5
Copper	ND		130	35	ug/L		05/09/17 12:07	05/16/17 00:39	5
Lead	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:39	5
Magnesium	**49**		5.0	1.5	mg/L		05/09/17 12:07	05/16/17 00:39	5
Manganese	ND		75	20	ug/L		05/09/17 12:07	05/16/17 00:39	5
MgHard	**200000**		21000	6200	ug/L		05/09/17 12:07	05/16/17 00:39	5
Nickel	ND		0.20	0.050	mg/L		05/09/17 12:07	05/16/17 00:39	5
Phosphorus	ND		1300	380	ug/L		05/09/17 12:07	05/16/17 00:39	5
Selenium	ND		75	40	ug/L		05/09/17 12:07	05/16/17 00:39	5
Silver	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:39	5
Sodium	**12000**		5000	1500	ug/L		05/09/17 12:07	05/16/17 00:39	5
Thallium	ND		100	25	ug/L		05/09/17 12:07	05/16/17 00:39	5
Total Hardness	**440000**		33000	9900	ug/L		05/09/17 12:07	05/16/17 00:39	5
Vanadium	ND		250	130	ug/L		05/09/17 12:07	05/16/17 00:39	5
Zinc	ND		100	30	ug/L		05/09/17 12:07	05/16/17 00:39	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		05/22/17 09:55	05/22/17 20:14	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**490**		5.0	3.5	mg/L			05/11/17 07:54	1
Ammonia	**45**	**J B**	50	22	ug/L			05/25/17 17:53	1
Nitrate Nitrite as N	**26**	**J B**	50	22	ug/L			05/23/17 17:50	1
Chemical Oxygen Demand	**7.0**		5.0	2.4	mg/L		05/30/17 08:15	05/30/17 14:00	1
Total Organic Carbon	**1.4**		1.0	0.72	mg/L			05/22/17 23:16	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-69.8	U	89.0	89.2	500	164	pCi/L	05/31/17 12:21	06/01/17 02:30	1

Client Sample ID: PZ-212-SD

Date Collected: 05/05/17 14:37
Date Received: 05/05/17 16:40

Lab Sample ID: 160-22211-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/14/17 23:05	1
Acrylonitrile	ND		50	1.7	ug/L			05/14/17 23:05	1

Client Sample ID: PZ-212-SD
Date Collected: 05/05/17 14:37
Date Received: 05/05/17 16:40

Lab Sample ID: 160-22211-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0	0.25	ug/L			05/14/17 23:05	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/14/17 23:05	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/14/17 23:05	1
Bromoform	ND		5.0	0.37	ug/L			05/14/17 23:05	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/14/17 23:05	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/14/17 23:05	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/14/17 23:05	1
Chloroethane	ND		10	0.38	ug/L			05/14/17 23:05	1
Chloroform	ND		5.0	0.15	ug/L			05/14/17 23:05	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/14/17 23:05	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/14/17 23:05	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/14/17 23:05	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/14/17 23:05	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/14/17 23:05	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/14/17 23:05	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/14/17 23:05	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/14/17 23:05	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/14/17 23:05	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/14/17 23:05	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/14/17 23:05	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/14/17 23:05	1
2-Hexanone	ND		20	0.59	ug/L			05/14/17 23:05	1
Methyl bromide	ND		10	0.40	ug/L			05/14/17 23:05	1
Methyl chloride	ND		10	0.55	ug/L			05/14/17 23:05	1
Methylene bromide	ND		5.0	0.41	ug/L			05/14/17 23:05	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/14/17 23:05	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/14/17 23:05	1
Methyl iodide	ND		5.0	1.5	ug/L			05/14/17 23:05	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/14/17 23:05	1
Styrene	ND		5.0	0.35	ug/L			05/14/17 23:05	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/14/17 23:05	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/14/17 23:05	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/14/17 23:05	1
Toluene	ND		5.0	1.0	ug/L			05/14/17 23:05	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/14/17 23:05	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/14/17 23:05	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/14/17 23:05	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/14/17 23:05	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/14/17 23:05	1
Trichloroethene	ND		5.0	0.29	ug/L			05/14/17 23:05	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/14/17 23:05	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/14/17 23:05	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/14/17 23:05	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/14/17 23:05	1
Xylenes, Total	ND		10	0.85	ug/L			05/14/17 23:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*71 - 139*		*05/14/17 23:05*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 121*		*05/14/17 23:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*76 - 121*		*05/14/17 23:05*	*1*

Client Sample ID: PZ-212-SD

Date Collected: 05/05/17 14:37
Date Received: 05/05/17 16:40

Lab Sample ID: 160-22211-7

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*100*		*80 - 129*		*05/14/17 23:05*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.16**	**H**	0.10	0.026	mg/L			06/10/17 07:15	1
Iodide	ND		1.0	0.10	mg/L			05/09/17 16:11	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**140**		10	1.0	mg/L			05/10/17 03:05	50
Sulfate	**78**	**H**	10	1.0	mg/L			06/10/17 07:31	20

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:44	5
Iron	**570**		500	150	ug/L		05/09/17 12:07	05/16/17 00:44	5
Arsenic	ND		50	20	ug/L		05/09/17 12:07	05/16/17 00:44	5
Barium	**240**	**J**	250	75	ug/L		05/09/17 12:07	05/16/17 00:44	5
Beryllium	ND		25	7.5	ug/L		05/09/17 12:07	05/16/17 00:44	5
Boron	ND		500	130	ug/L		05/09/17 12:07	05/16/17 00:44	5
Cadmium	ND		25	7.5	ug/L		05/09/17 12:07	05/16/17 00:44	5
CaHard	**300000**		12000	3700	ug/L		05/09/17 12:07	05/16/17 00:44	5
Calcium	**120000**		5000	1500	ug/L		05/09/17 12:07	05/16/17 00:44	5
Chromium	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:44	5
Cobalt	ND		250	75	ug/L		05/09/17 12:07	05/16/17 00:44	5
Copper	ND		130	35	ug/L		05/09/17 12:07	05/16/17 00:44	5
Lead	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:44	5
Magnesium	**58**		5.0	1.5	mg/L		05/09/17 12:07	05/16/17 00:44	5
Manganese	**810**		75	20	ug/L		05/09/17 12:07	05/16/17 00:44	5
MgHard	**240000**		21000	6200	ug/L		05/09/17 12:07	05/16/17 00:44	5
Nickel	ND		0.20	0.050	mg/L		05/09/17 12:07	05/16/17 00:44	5
Phosphorus	**1400**		1300	380	ug/L		05/09/17 12:07	05/16/17 00:44	5
Selenium	ND		75	40	ug/L		05/09/17 12:07	05/16/17 00:44	5
Silver	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:44	5
Sodium	**51000**		5000	1500	ug/L		05/09/17 12:07	05/16/17 00:44	5
Thallium	ND		100	25	ug/L		05/09/17 12:07	05/16/17 00:44	5
Total Hardness	**540000**		33000	9900	ug/L		05/09/17 12:07	05/16/17 00:44	5
Vanadium	ND		250	130	ug/L		05/09/17 12:07	05/16/17 00:44	5
Zinc	ND		100	30	ug/L		05/09/17 12:07	05/16/17 00:44	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		05/22/17 10:05	05/22/17 21:06	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**700**		5.0	3.5	mg/L			05/11/17 07:54	1
Ammonia	**160**		50	22	ug/L			05/31/17 23:17	1
Nitrate Nitrite as N	ND		50	22	ug/L			05/25/17 16:44	1
Chemical Oxygen Demand	**7.0**		5.0	2.4	mg/L		05/30/17 08:15	05/30/17 14:00	1

Client Sample ID: PZ-212-SD

Lab Sample ID: 160-22211-7
Date Collected: 05/05/17 14:37
Matrix: Water
Date Received: 05/05/17 16:40

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	3.0	H	1.0	0.72	mg/L			06/03/17 17:22	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-73.9	U	85.1	85.3	500	155	pCi/L	05/31/17 12:21	06/01/17 03:36	1

Client Sample ID: PZ-105-SS

Lab Sample ID: 160-22211-8
Date Collected: 05/05/17 12:19
Matrix: Water
Date Received: 05/05/17 16:40

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/14/17 23:30	1
Acrylonitrile	ND		50	1.7	ug/L			05/14/17 23:30	1
Benzene	ND		5.0	0.25	ug/L			05/14/17 23:30	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/14/17 23:30	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/14/17 23:30	1
Bromoform	ND		5.0	0.37	ug/L			05/14/17 23:30	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/14/17 23:30	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/14/17 23:30	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/14/17 23:30	1
Chloroethane	ND		10	0.38	ug/L			05/14/17 23:30	1
Chloroform	ND		5.0	0.15	ug/L			05/14/17 23:30	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/14/17 23:30	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/14/17 23:30	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/14/17 23:30	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/14/17 23:30	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/14/17 23:30	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/14/17 23:30	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/14/17 23:30	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/14/17 23:30	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/14/17 23:30	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/14/17 23:30	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/14/17 23:30	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/14/17 23:30	1
2-Hexanone	ND		20	0.59	ug/L			05/14/17 23:30	1
Methyl bromide	ND		10	0.40	ug/L			05/14/17 23:30	1
Methyl chloride	ND		10	0.55	ug/L			05/14/17 23:30	1
Methylene bromide	ND		5.0	0.41	ug/L			05/14/17 23:30	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/14/17 23:30	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/14/17 23:30	1
Methyl iodide	ND		5.0	1.5	ug/L			05/14/17 23:30	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/14/17 23:30	1
Styrene	ND		5.0	0.35	ug/L			05/14/17 23:30	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/14/17 23:30	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/14/17 23:30	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/14/17 23:30	1
Toluene	ND		5.0	1.0	ug/L			05/14/17 23:30	1

Client Sample ID: PZ-105-SS
Date Collected: 05/05/17 12:19
Date Received: 05/05/17 16:40

Lab Sample ID: 160-22211-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/14/17 23:30	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/14/17 23:30	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/14/17 23:30	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/14/17 23:30	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/14/17 23:30	1
Trichloroethene	ND		5.0	0.29	ug/L			05/14/17 23:30	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/14/17 23:30	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/14/17 23:30	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/14/17 23:30	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/14/17 23:30	1
Xylenes, Total	ND		10	0.85	ug/L			05/14/17 23:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*71 - 139*		*05/14/17 23:30*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 121*		*05/14/17 23:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*76 - 121*		*05/14/17 23:30*	*1*
Toluene-d8 (Surr)	*94*		*80 - 129*		*05/14/17 23:30*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.45**	**H**	0.10	0.026	mg/L			06/10/17 07:46	1
Iodide	ND		1.0	0.10	mg/L			05/09/17 17:08	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**69**		10	1.0	mg/L			05/10/17 03:31	50
Sulfate	**48**	**H**	10	1.0	mg/L			06/10/17 08:02	20

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:49	5
Iron	**2500**		500	150	ug/L		05/09/17 12:07	05/16/17 00:49	5
Arsenic	ND		50	20	ug/L		05/09/17 12:07	05/16/17 00:49	5
Barium	**190**	**J**	250	75	ug/L		05/09/17 12:07	05/16/17 00:49	5
Beryllium	ND		25	7.5	ug/L		05/09/17 12:07	05/16/17 00:49	5
Boron	ND		500	130	ug/L		05/09/17 12:07	05/16/17 00:49	5
Cadmium	ND		25	7.5	ug/L		05/09/17 12:07	05/16/17 00:49	5
CaHard	**270000**		12000	3700	ug/L		05/09/17 12:07	05/16/17 00:49	5
Calcium	**110000**		5000	1500	ug/L		05/09/17 12:07	05/16/17 00:49	5
Chromium	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:49	5
Cobalt	ND		250	75	ug/L		05/09/17 12:07	05/16/17 00:49	5
Copper	ND		130	35	ug/L		05/09/17 12:07	05/16/17 00:49	5
Lead	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:49	5
Magnesium	**58**		5.0	1.5	mg/L		05/09/17 12:07	05/16/17 00:49	5
Manganese	**98**		75	20	ug/L		05/09/17 12:07	05/16/17 00:49	5
MgHard	**240000**		21000	6200	ug/L		05/09/17 12:07	05/16/17 00:49	5
Nickel	ND		0.20	0.050	mg/L		05/09/17 12:07	05/16/17 00:49	5
Phosphorus	ND		1300	380	ug/L		05/09/17 12:07	05/16/17 00:49	5
Selenium	ND		75	40	ug/L		05/09/17 12:07	05/16/17 00:49	5
Silver	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:49	5

Client Sample ID: PZ-105-SS

Date Collected: 05/05/17 12:19
Date Received: 05/05/17 16:40

Lab Sample ID: 160-22211-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**44000**		5000	1500	ug/L		05/09/17 12:07	05/16/17 00:49	5
Thallium	ND		100	25	ug/L		05/09/17 12:07	05/16/17 00:49	5
Total Hardness	**510000**		33000	9900	ug/L		05/09/17 12:07	05/16/17 00:49	5
Vanadium	ND		250	130	ug/L		05/09/17 12:07	05/16/17 00:49	5
Zinc	ND		100	30	ug/L		05/09/17 12:07	05/16/17 00:49	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		05/22/17 10:05	05/22/17 21:08	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**650**		5.0	3.5	mg/L			05/11/17 07:54	1
Ammonia	**75**		50	22	ug/L			05/31/17 23:19	1
Nitrate Nitrite as N	ND		50	22	ug/L			05/25/17 16:47	1
Chemical Oxygen Demand	ND		5.0	2.4	mg/L		05/30/17 08:15	05/30/17 14:00	1
Total Organic Carbon	**3.1**		1.0	0.72	mg/L			05/22/17 23:43	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	35.1	U	94.0	94.0	500	161	pCi/L	05/31/17 12:21	06/01/17 04:42	1

Client Sample ID: PZ-212-SS

Date Collected: 05/05/17 15:48
Date Received: 05/05/17 16:40

Lab Sample ID: 160-22211-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/14/17 23:55	1
Acrylonitrile	ND		50	1.7	ug/L			05/14/17 23:55	1
Benzene	ND		5.0	0.25	ug/L			05/14/17 23:55	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/14/17 23:55	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/14/17 23:55	1
Bromoform	ND		5.0	0.37	ug/L			05/14/17 23:55	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/14/17 23:55	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/14/17 23:55	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/14/17 23:55	1
Chloroethane	ND		10	0.38	ug/L			05/14/17 23:55	1
Chloroform	ND		5.0	0.15	ug/L			05/14/17 23:55	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/14/17 23:55	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/14/17 23:55	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/14/17 23:55	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/14/17 23:55	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/14/17 23:55	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/14/17 23:55	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/14/17 23:55	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/14/17 23:55	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/14/17 23:55	1

Client Sample ID: PZ-212-SS
Date Collected: 05/05/17 15:48
Date Received: 05/05/17 16:40

Lab Sample ID: 160-22211-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/14/17 23:55	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/14/17 23:55	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/14/17 23:55	1
2-Hexanone	ND		20	0.59	ug/L			05/14/17 23:55	1
Methyl bromide	ND		10	0.40	ug/L			05/14/17 23:55	1
Methyl chloride	ND		10	0.55	ug/L			05/14/17 23:55	1
Methylene bromide	ND		5.0	0.41	ug/L			05/14/17 23:55	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/14/17 23:55	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/14/17 23:55	1
Methyl iodide	ND		5.0	1.5	ug/L			05/14/17 23:55	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/14/17 23:55	1
Styrene	ND		5.0	0.35	ug/L			05/14/17 23:55	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/14/17 23:55	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/14/17 23:55	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/14/17 23:55	1
Toluene	ND		5.0	1.0	ug/L			05/14/17 23:55	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/14/17 23:55	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/14/17 23:55	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/14/17 23:55	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/14/17 23:55	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/14/17 23:55	1
Trichloroethene	ND		5.0	0.29	ug/L			05/14/17 23:55	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/14/17 23:55	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/14/17 23:55	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/14/17 23:55	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/14/17 23:55	1
Xylenes, Total	ND		10	0.85	ug/L			05/14/17 23:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*71 - 139*		*05/14/17 23:55*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 121*		*05/14/17 23:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*76 - 121*		*05/14/17 23:55*	*1*
Toluene-d8 (Surr)	*102*		*80 - 129*		*05/14/17 23:55*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.34**	**H**	0.10	0.026	mg/L			06/10/17 08:17	1
Iodide	ND		1.0	0.10	mg/L			05/09/17 17:37	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.8**		2.0	0.20	mg/L			05/10/17 03:58	10
Sulfate	**110**	**H**	10	1.0	mg/L			06/10/17 08:32	20

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:53	5
Iron	**1100**		500	150	ug/L		05/09/17 12:07	05/16/17 00:53	5
Arsenic	ND		50	20	ug/L		05/09/17 12:07	05/16/17 00:53	5
Barium	**80**	**J**	250	75	ug/L		05/09/17 12:07	05/16/17 00:53	5

Client Sample ID: PZ-212-SS

Date Collected: 05/05/17 15:48
Date Received: 05/05/17 16:40

Lab Sample ID: 160-22211-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		25	7.5	ug/L		05/09/17 12:07	05/16/17 00:53	5
Boron	ND		500	130	ug/L		05/09/17 12:07	05/16/17 00:53	5
Cadmium	ND		25	7.5	ug/L		05/09/17 12:07	05/16/17 00:53	5
CaHard	**310000**		12000	3700	ug/L		05/09/17 12:07	05/16/17 00:53	5
Calcium	**120000**		5000	1500	ug/L		05/09/17 12:07	05/16/17 00:53	5
Chromium	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:53	5
Cobalt	ND		250	75	ug/L		05/09/17 12:07	05/16/17 00:53	5
Copper	ND		130	35	ug/L		05/09/17 12:07	05/16/17 00:53	5
Lead	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:53	5
Magnesium	**29**		5.0	1.5	mg/L		05/09/17 12:07	05/16/17 00:53	5
Manganese	**73**	**J**	75	20	ug/L		05/09/17 12:07	05/16/17 00:53	5
MgHard	**120000**		21000	6200	ug/L		05/09/17 12:07	05/16/17 00:53	5
Nickel	ND		0.20	0.050	mg/L		05/09/17 12:07	05/16/17 00:53	5
Phosphorus	ND		1300	380	ug/L		05/09/17 12:07	05/16/17 00:53	5
Selenium	ND		75	40	ug/L		05/09/17 12:07	05/16/17 00:53	5
Silver	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:53	5
Sodium	**23000**		5000	1500	ug/L		05/09/17 12:07	05/16/17 00:53	5
Thallium	ND		100	25	ug/L		05/09/17 12:07	05/16/17 00:53	5
Total Hardness	**430000**		33000	9900	ug/L		05/09/17 12:07	05/16/17 00:53	5
Vanadium	ND		250	130	ug/L		05/09/17 12:07	05/16/17 00:53	5
Zinc	ND		100	30	ug/L		05/09/17 12:07	05/16/17 00:53	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		05/22/17 10:05	05/22/17 21:20	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**550**		5.0	3.5	mg/L			05/11/17 07:54	1
Ammonia	**76**		50	22	ug/L			05/31/17 23:22	1
Nitrate Nitrite as N	ND		50	22	ug/L			05/25/17 16:50	1
Chemical Oxygen Demand	ND		5.0	2.4	mg/L		05/30/17 08:15	05/30/17 14:00	1
Total Organic Carbon	**1.4**		1.0	0.72	mg/L			05/22/17 23:55	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-3.60	U	88.0	88.0	500	152	pCi/L	05/31/17 12:21	06/01/17 05:48	1

Client Sample ID: TRIP BLANK

Date Collected: 05/04/17 08:00
Date Received: 05/05/17 16:40

Lab Sample ID: 160-22211-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/14/17 18:06	1
Acrylonitrile	ND		50	1.7	ug/L			05/14/17 18:06	1
Benzene	ND		5.0	0.25	ug/L			05/14/17 18:06	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/14/17 18:06	1

Client Sample ID: TRIP BLANK
Date Collected: 05/04/17 08:00
Date Received: 05/05/17 16:40

Lab Sample ID: 160-22211-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		5.0	0.25	ug/L			05/14/17 18:06	1
Bromoform	ND		5.0	0.37	ug/L			05/14/17 18:06	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/14/17 18:06	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/14/17 18:06	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/14/17 18:06	1
Chloroethane	ND		10	0.38	ug/L			05/14/17 18:06	1
Chloroform	ND		5.0	0.15	ug/L			05/14/17 18:06	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/14/17 18:06	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/14/17 18:06	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/14/17 18:06	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/14/17 18:06	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/14/17 18:06	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/14/17 18:06	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/14/17 18:06	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/14/17 18:06	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/14/17 18:06	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/14/17 18:06	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/14/17 18:06	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/14/17 18:06	1
2-Hexanone	ND		20	0.59	ug/L			05/14/17 18:06	1
Methyl bromide	ND		10	0.40	ug/L			05/14/17 18:06	1
Methyl chloride	ND		10	0.55	ug/L			05/14/17 18:06	1
Methylene bromide	ND		5.0	0.41	ug/L			05/14/17 18:06	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/14/17 18:06	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/14/17 18:06	1
Methyl iodide	ND		5.0	1.5	ug/L			05/14/17 18:06	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/14/17 18:06	1
Styrene	ND		5.0	0.35	ug/L			05/14/17 18:06	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/14/17 18:06	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/14/17 18:06	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/14/17 18:06	1
Toluene	ND		5.0	1.0	ug/L			05/14/17 18:06	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/14/17 18:06	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/14/17 18:06	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/14/17 18:06	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/14/17 18:06	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/14/17 18:06	1
Trichloroethene	ND		5.0	0.29	ug/L			05/14/17 18:06	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/14/17 18:06	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/14/17 18:06	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/14/17 18:06	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/14/17 18:06	1
Xylenes, Total	ND		10	0.85	ug/L			05/14/17 18:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*71 - 139*		*05/14/17 18:06*	*1*
Dibromofluoromethane (Surr)	*95*		*80 - 121*		*05/14/17 18:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*76 - 121*		*05/14/17 18:06*	*1*
Toluene-d8 (Surr)	*94*		*80 - 129*		*05/14/17 18:06*	*1*

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

Lab Sample ID: MB 160-308482/7
Matrix: Water
Analysis Batch: 308482

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/14/17 17:41	1
Acrylonitrile	ND		50	1.7	ug/L			05/14/17 17:41	1
Benzene	ND		5.0	0.25	ug/L			05/14/17 17:41	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/14/17 17:41	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/14/17 17:41	1
Bromoform	ND		5.0	0.37	ug/L			05/14/17 17:41	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/14/17 17:41	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/14/17 17:41	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/14/17 17:41	1
Chloroethane	ND		10	0.38	ug/L			05/14/17 17:41	1
Chloroform	ND		5.0	0.15	ug/L			05/14/17 17:41	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/14/17 17:41	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/14/17 17:41	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/14/17 17:41	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/14/17 17:41	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/14/17 17:41	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/14/17 17:41	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/14/17 17:41	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/14/17 17:41	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/14/17 17:41	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/14/17 17:41	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/14/17 17:41	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/14/17 17:41	1
2-Hexanone	ND		20	0.59	ug/L			05/14/17 17:41	1
Methyl bromide	ND		10	0.40	ug/L			05/14/17 17:41	1
Methyl chloride	ND		10	0.55	ug/L			05/14/17 17:41	1
Methylene bromide	ND		5.0	0.41	ug/L			05/14/17 17:41	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/14/17 17:41	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/14/17 17:41	1
Methyl iodide	ND		5.0	1.5	ug/L			05/14/17 17:41	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/14/17 17:41	1
Styrene	ND		5.0	0.35	ug/L			05/14/17 17:41	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/14/17 17:41	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/14/17 17:41	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/14/17 17:41	1
Toluene	ND		5.0	1.0	ug/L			05/14/17 17:41	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/14/17 17:41	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/14/17 17:41	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/14/17 17:41	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/14/17 17:41	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/14/17 17:41	1
Trichloroethene	ND		5.0	0.29	ug/L			05/14/17 17:41	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/14/17 17:41	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/14/17 17:41	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/14/17 17:41	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/14/17 17:41	1
Xylenes, Total	ND		10	0.85	ug/L			05/14/17 17:41	1

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

Lab Sample ID: MB 160-308482/7
Matrix: Water
Analysis Batch: 308482

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		71 - 139		05/14/17 17:41	1
Dibromofluoromethane (Surr)	96		80 - 121		05/14/17 17:41	1
1,2-Dichloroethane-d4 (Surr)	93		76 - 121		05/14/17 17:41	1
Toluene-d8 (Surr)	97		80 - 129		05/14/17 17:41	1

Lab Sample ID: LCS 160-308482/4
Matrix: Water
Analysis Batch: 308482

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	50.0	49.1		ug/L		98	63 - 131
Acrylonitrile	500	506		ug/L		101	81 - 117
Benzene	50.0	43.7		ug/L		87	80 - 120
Bromochloromethane	50.0	48.7		ug/L		97	80 - 120
Bromodichloromethane	50.0	49.3		ug/L		99	80 - 120
Bromoform	50.0	50.8		ug/L		102	80 - 120
Carbon disulfide	50.0	50.5		ug/L		101	79 - 126
Carbon tetrachloride	50.0	48.2		ug/L		96	73 - 123
Chlorobenzene	50.0	46.0		ug/L		92	80 - 120
Chloroethane	50.0	47.7		ug/L		95	52 - 140
Chloroform	50.0	47.0		ug/L		94	80 - 120
cis-1,2-Dichloroethene	50.0	51.1		ug/L		102	80 - 120
cis-1,3-Dichloropropene	50.0	53.9		ug/L		108	80 - 122
Dibromochloromethane	50.0	48.5		ug/L		97	80 - 120
1,2-Dibromo-3-Chloropropane	50.0	48.8		ug/L		98	77 - 125
1,2-Dibromoethane (EDB)	50.0	49.2		ug/L		98	80 - 120
1,2-Dichlorobenzene	50.0	46.4		ug/L		93	80 - 120
1,4-Dichlorobenzene	50.0	45.1		ug/L		90	80 - 120
1,1-Dichloroethane	50.0	46.8		ug/L		94	80 - 120
1,2-Dichloroethane	50.0	46.5		ug/L		93	69 - 124
1,1-Dichloroethene	50.0	48.6		ug/L		97	77 - 126
1,2-Dichloropropane	50.0	49.0		ug/L		98	80 - 120
Ethylbenzene	50.0	47.3		ug/L		95	80 - 120
2-Hexanone	50.0	49.6		ug/L		99	64 - 136
Methyl bromide	50.0	53.9		ug/L		108	57 - 139
Methyl chloride	50.0	52.6		ug/L		105	70 - 127
Methylene bromide	50.0	49.4		ug/L		99	78 - 120
Methylene Chloride	50.0	49.0		ug/L		98	80 - 120
Methyl Ethyl Ketone	50.0	49.2		ug/L		98	70 - 130
Methyl iodide	50.0	49.6		ug/L		99	73 - 125
4-Methyl-2-pentanone (MIBK)	50.0	53.5		ug/L		107	76 - 129
Styrene	50.0	50.3		ug/L		101	80 - 120
1,1,1,2-Tetrachloroethane	50.0	45.8		ug/L		92	80 - 120
1,1,2,2-Tetrachloroethane	50.0	47.3		ug/L		95	80 - 120
Tetrachloroethene	50.0	48.2		ug/L		96	80 - 120
Toluene	50.0	49.3		ug/L		99	80 - 120
trans-1,4-Dichloro-2-butene	50.0	46.6		ug/L		93	75 - 127
trans-1,2-Dichloroethene	50.0	51.2		ug/L		102	80 - 120

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

Lab Sample ID: LCS 160-308482/4
Matrix: Water
Analysis Batch: 308482

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	50.0	51.9		ug/L		104	80 - 130
1,1,1-Trichloroethane	50.0	49.1		ug/L		98	76 - 120
1,1,2-Trichloroethane	50.0	48.4		ug/L		97	80 - 120
Trichloroethene	50.0	47.5		ug/L		95	73 - 120
Trichlorofluoromethane	50.0	50.4		ug/L		101	74 - 130
1,2,3-Trichloropropane	50.0	47.4		ug/L		95	80 - 120
Vinyl acetate	50.0	54.4		ug/L		109	37 - 140
Vinyl chloride	50.0	49.7		ug/L		99	51 - 140
Xylenes, Total	100	97.9		ug/L		98	80 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*71 - 139*
Dibromofluoromethane (Surr)	*94*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*92*		*76 - 121*
Toluene-d8 (Surr)	*99*		*80 - 129*

Lab Sample ID: LCSD 160-308482/5
Matrix: Water
Analysis Batch: 308482

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
Acetone	50.0	47.0		ug/L		94	63 - 131	4	20
Acrylonitrile	500	500		ug/L		100	81 - 117	1	20
Benzene	50.0	43.7		ug/L		87	80 - 120	0	20
Bromochloromethane	50.0	48.2		ug/L		96	80 - 120	1	20
Bromodichloromethane	50.0	48.9		ug/L		98	80 - 120	1	20
Bromoform	50.0	50.1		ug/L		100	80 - 120	1	20
Carbon disulfide	50.0	50.5		ug/L		101	79 - 126	0	20
Carbon tetrachloride	50.0	47.4		ug/L		95	73 - 123	2	20
Chlorobenzene	50.0	46.2		ug/L		92	80 - 120	0	20
Chloroethane	50.0	48.8		ug/L		98	52 - 140	2	20
Chloroform	50.0	46.7		ug/L		93	80 - 120	1	20
cis-1,2-Dichloroethene	50.0	50.5		ug/L		101	80 - 120	1	20
cis-1,3-Dichloropropene	50.0	52.7		ug/L		105	80 - 122	2	20
Dibromochloromethane	50.0	47.3		ug/L		95	80 - 120	2	20
1,2-Dibromo-3-Chloropropane	50.0	50.2		ug/L		100	77 - 125	3	20
1,2-Dibromoethane (EDB)	50.0	49.3		ug/L		99	80 - 120	0	20
1,2-Dichlorobenzene	50.0	46.7		ug/L		93	80 - 120	1	20
1,4-Dichlorobenzene	50.0	46.3		ug/L		93	80 - 120	3	20
1,1-Dichloroethane	50.0	46.6		ug/L		93	80 - 120	1	20
1,2-Dichloroethane	50.0	45.5		ug/L		91	69 - 124	2	20
1,1-Dichloroethene	50.0	48.2		ug/L		96	77 - 126	1	20
1,2-Dichloropropane	50.0	49.7		ug/L		99	80 - 120	2	20
Ethylbenzene	50.0	47.3		ug/L		95	80 - 120	0	20
2-Hexanone	50.0	48.5		ug/L		97	64 - 136	2	20
Methyl bromide	50.0	55.1		ug/L		110	57 - 139	2	20
Methyl chloride	50.0	51.9		ug/L		104	70 - 127	1	20
Methylene bromide	50.0	48.0		ug/L		96	78 - 120	3	20

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

Lab Sample ID: LCSD 160-308482/5
Matrix: Water
Analysis Batch: 308482

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
Methylene Chloride			50.0	48.1		ug/L		96	80 - 120	2	20
Methyl Ethyl Ketone			50.0	49.5		ug/L		99	70 - 130	1	20
Methyl iodide			50.0	49.2		ug/L		98	73 - 125	1	20
4-Methyl-2-pentanone (MIBK)			50.0	52.5		ug/L		105	76 - 129	2	20
Styrene			50.0	49.0		ug/L		98	80 - 120	3	20
1,1,1,2-Tetrachloroethane			50.0	44.7		ug/L		89	80 - 120	3	20
1,1,2,2-Tetrachloroethane			50.0	46.9		ug/L		94	80 - 120	1	20
Tetrachloroethene			50.0	47.4		ug/L		95	80 - 120	2	20
Toluene			50.0	49.3		ug/L		99	80 - 120	0	20
trans-1,4-Dichloro-2-butene			50.0	47.9		ug/L		96	75 - 127	3	20
trans-1,2-Dichloroethene			50.0	50.1		ug/L		100	80 - 120	2	20
trans-1,3-Dichloropropene			50.0	49.9		ug/L		100	80 - 130	4	20
1,1,1-Trichloroethane			50.0	48.4		ug/L		97	76 - 120	1	20
1,1,2-Trichloroethane			50.0	48.4		ug/L		97	80 - 120	0	20
Trichloroethene			50.0	48.0		ug/L		96	73 - 120	1	20
Trichlorofluoromethane			50.0	48.8		ug/L		98	74 - 130	3	20
1,2,3-Trichloropropane			50.0	48.1		ug/L		96	80 - 120	2	20
Vinyl acetate			50.0	50.7		ug/L		101	37 - 140	7	20
Vinyl chloride			50.0	49.2		ug/L		98	51 - 140	1	20
Xylenes, Total			100	96.2		ug/L		96	80 - 121	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*71 - 139*
Dibromofluoromethane (Surr)	*94*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*90*		*76 - 121*
Toluene-d8 (Surr)	*100*		*80 - 129*

Lab Sample ID: 160-22211-1 MS
Matrix: Water
Analysis Batch: 308482

Client Sample ID: PZ-106-SD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		50.0	43.0		ug/L		86	52 - 138
Acrylonitrile	ND		500	479		ug/L		96	58 - 142
Benzene	1.0	J	50.0	42.0		ug/L		82	80 - 120
Bromochloromethane	ND		50.0	47.1		ug/L		94	72 - 125
Bromodichloromethane	ND		50.0	48.6		ug/L		97	71 - 128
Bromoform	ND		50.0	48.7		ug/L		97	65 - 133
Carbon disulfide	ND		50.0	47.2		ug/L		94	69 - 139
Carbon tetrachloride	ND		50.0	43.7		ug/L		87	70 - 126
Chlorobenzene	ND		50.0	44.2		ug/L		88	80 - 120
Chloroethane	ND		50.0	42.9		ug/L		86	59 - 144
Chloroform	ND		50.0	46.0		ug/L		92	80 - 120
cis-1,2-Dichloroethene	ND		50.0	47.7		ug/L		95	80 - 124
cis-1,3-Dichloropropene	ND		50.0	49.2		ug/L		98	67 - 130
Dibromochloromethane	ND		50.0	45.8		ug/L		92	68 - 133
1,2-Dibromo-3-Chloropropane	ND		50.0	46.0		ug/L		92	58 - 148
1,2-Dibromoethane (EDB)	ND		50.0	46.4		ug/L		93	65 - 138

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

Lab Sample ID: 160-22211-1 MS
Matrix: Water
Analysis Batch: 308482

Client Sample ID: PZ-106-SD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	ND		50.0	45.3		ug/L		91	80 - 124
1,4-Dichlorobenzene	ND		50.0	44.2		ug/L		88	80 - 120
1,1-Dichloroethane	ND		50.0	44.7		ug/L		89	80 - 120
1,2-Dichloroethane	ND		50.0	45.3		ug/L		91	56 - 136
1,1-Dichloroethene	ND		50.0	44.2		ug/L		88	66 - 137
1,2-Dichloropropane	ND		50.0	47.2		ug/L		94	80 - 123
Ethylbenzene	ND		50.0	45.2		ug/L		90	80 - 121
2-Hexanone	ND		50.0	44.2		ug/L		88	47 - 150
Methyl bromide	ND		50.0	45.6		ug/L		91	53 - 146
Methyl chloride	ND		50.0	39.7		ug/L		79	61 - 137
Methylene bromide	ND		50.0	46.4		ug/L		93	61 - 136
Methylene Chloride	ND		50.0	46.4		ug/L		93	80 - 120
Methyl Ethyl Ketone	ND		50.0	46.0		ug/L		92	58 - 143
Methyl iodide	ND		50.0	45.8		ug/L		92	69 - 124
4-Methyl-2-pentanone (MIBK)	ND		50.0	49.0		ug/L		98	53 - 150
Styrene	ND		50.0	47.0		ug/L		94	44 - 150
1,1,1,2-Tetrachloroethane	ND		50.0	43.7		ug/L		87	80 - 120
1,1,2,2-Tetrachloroethane	ND		50.0	45.0		ug/L		90	60 - 150
Tetrachloroethene	ND		50.0	44.7		ug/L		89	66 - 132
Toluene	ND		50.0	47.4		ug/L		95	75 - 134
trans-1,4-Dichloro-2-butene	ND		50.0	42.1		ug/L		84	55 - 146
trans-1,2-Dichloroethene	ND		50.0	47.1		ug/L		94	79 - 121
trans-1,3-Dichloropropene	ND		50.0	48.4		ug/L		97	68 - 143
1,1,1-Trichloroethane	ND		50.0	45.5		ug/L		91	74 - 123
1,1,2-Trichloroethane	ND		50.0	46.4		ug/L		93	70 - 134
Trichloroethene	ND		50.0	44.8		ug/L		90	63 - 120
Trichlorofluoromethane	ND		50.0	43.1		ug/L		86	53 - 150
1,2,3-Trichloropropane	ND		50.0	47.0		ug/L		94	62 - 137
Vinyl acetate	ND		50.0	53.6		ug/L		107	63 - 150
Vinyl chloride	ND		50.0	41.8		ug/L		84	54 - 140
Xylenes, Total	ND		100	90.9		ug/L		91	80 - 124

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*71 - 139*
Dibromofluoromethane (Surr)	*91*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*91*		*76 - 121*
Toluene-d8 (Surr)	*93*		*80 - 129*

Lab Sample ID: 160-22211-1 MSD
Matrix: Water
Analysis Batch: 308482

Client Sample ID: PZ-106-SD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		50.0	47.9		ug/L		96	52 - 138	11	20
Acrylonitrile	ND		500	527		ug/L		105	58 - 142	10	20
Benzene	1.0	J	50.0	43.5		ug/L		85	80 - 120	4	20
Bromochloromethane	ND		50.0	48.2		ug/L		96	72 - 125	2	20
Bromodichloromethane	ND		50.0	49.5		ug/L		99	71 - 128	2	20

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

Lab Sample ID: 160-22211-1 MSD
Matrix: Water
Analysis Batch: 308482

Client Sample ID: PZ-106-SD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	ND		50.0	52.0		ug/L		104	65 - 133	7	20
Carbon disulfide	ND		50.0	48.1		ug/L		96	69 - 139	2	20
Carbon tetrachloride	ND		50.0	44.6		ug/L		89	70 - 126	2	20
Chlorobenzene	ND		50.0	45.0		ug/L		90	80 - 120	2	20
Chloroethane	ND		50.0	46.2		ug/L		92	59 - 144	7	20
Chloroform	ND		50.0	46.5		ug/L		93	80 - 120	1	20
cis-1,2-Dichloroethene	ND		50.0	49.5		ug/L		99	80 - 124	4	20
cis-1,3-Dichloropropene	ND		50.0	52.0		ug/L		104	67 - 130	6	20
Dibromochloromethane	ND		50.0	48.1		ug/L		96	68 - 133	5	20
1,2-Dibromo-3-Chloropropane	ND		50.0	51.5		ug/L		103	58 - 148	11	20
1,2-Dibromoethane (EDB)	ND		50.0	50.1		ug/L		100	65 - 138	8	20
1,2-Dichlorobenzene	ND		50.0	47.7		ug/L		95	80 - 124	5	20
1,4-Dichlorobenzene	ND		50.0	45.9		ug/L		92	80 - 120	4	20
1,1-Dichloroethane	ND		50.0	45.7		ug/L		91	80 - 120	2	20
1,2-Dichloroethane	ND		50.0	47.7		ug/L		95	56 - 136	5	20
1,1-Dichloroethene	ND		50.0	45.6		ug/L		91	66 - 137	3	20
1,2-Dichloropropane	ND		50.0	49.3		ug/L		99	80 - 123	4	20
Ethylbenzene	ND		50.0	46.0		ug/L		92	80 - 121	2	20
2-Hexanone	ND		50.0	50.0		ug/L		100	47 - 150	12	20
Methyl bromide	ND		50.0	50.4		ug/L		101	53 - 146	10	20
Methyl chloride	ND		50.0	43.3		ug/L		87	61 - 137	9	20
Methylene bromide	ND		50.0	50.6		ug/L		101	61 - 136	9	20
Methylene Chloride	ND		50.0	48.6		ug/L		97	80 - 120	5	20
Methyl Ethyl Ketone	ND		50.0	51.7		ug/L		103	58 - 143	12	20
Methyl iodide	ND		50.0	47.8		ug/L		96	69 - 124	4	20
4-Methyl-2-pentanone (MIBK)	ND		50.0	55.0		ug/L		110	53 - 150	12	20
Styrene	ND		50.0	49.1		ug/L		98	44 - 150	4	20
1,1,1,2-Tetrachloroethane	ND		50.0	45.2		ug/L		90	80 - 120	3	20
1,1,2,2-Tetrachloroethane	ND		50.0	49.3		ug/L		99	60 - 150	9	20
Tetrachloroethene	ND		50.0	45.2		ug/L		90	66 - 132	1	20
Toluene	ND		50.0	48.2		ug/L		96	75 - 134	2	20
trans-1,4-Dichloro-2-butene	ND		50.0	46.1		ug/L		92	55 - 146	9	20
trans-1,2-Dichloroethene	ND		50.0	48.9		ug/L		98	79 - 121	4	20
trans-1,3-Dichloropropene	ND		50.0	50.7		ug/L		101	68 - 143	5	20
1,1,1-Trichloroethane	ND		50.0	46.8		ug/L		94	74 - 123	3	20
1,1,2-Trichloroethane	ND		50.0	49.3		ug/L		99	70 - 134	6	20
Trichloroethene	ND		50.0	45.7		ug/L		91	63 - 120	2	20
Trichlorofluoromethane	ND		50.0	44.7		ug/L		89	53 - 150	4	20
1,2,3-Trichloropropane	ND		50.0	49.7		ug/L		99	62 - 137	5	20
Vinyl acetate	ND		50.0	57.8		ug/L		116	63 - 150	8	20
Vinyl chloride	ND		50.0	43.0		ug/L		86	54 - 140	3	20
Xylenes, Total	ND		100	93.7		ug/L		94	80 - 124	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*71 - 139*
Dibromofluoromethane (Surr)	*93*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*93*		*76 - 121*
Toluene-d8 (Surr)	*94*		*80 - 129*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 160-307816/3
Matrix: Water
Analysis Batch: 307816

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	ND		1.0	0.10	mg/L			05/09/17 11:22	1

Lab Sample ID: LCS 160-307816/4
Matrix: Water
Analysis Batch: 307816

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iodide	4.00	3.98		mg/L		99	90 - 110

Lab Sample ID: 160-22211-1 MS
Matrix: Water
Analysis Batch: 307816

Client Sample ID: PZ-106-SD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iodide	1.1		4.00	5.03		mg/L		98	90 - 110

Lab Sample ID: 160-22211-1 DU
Matrix: Water
Analysis Batch: 307816

Client Sample ID: PZ-106-SD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Iodide	1.1		1.10		mg/L		0.9	20

Lab Sample ID: MB 160-307867/9
Matrix: Water
Analysis Batch: 307867

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.20	0.020	mg/L			05/09/17 21:48	1

Lab Sample ID: LCS 160-307867/10
Matrix: Water
Analysis Batch: 307867

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.00	1.95		mg/L		97	90 - 110

Lab Sample ID: MB 160-312598/125
Matrix: Water
Analysis Batch: 312598

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10	0.026	mg/L			06/10/17 00:04	1
Sulfate	ND		0.50	0.050	mg/L			06/10/17 00:04	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 160-312598/126
Matrix: Water
Analysis Batch: 312598

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	1.00	0.976		mg/L		98	90 - 110
Sulfate	8.00	7.89		mg/L		99	90 - 110

Method: 300.0 - Anions, Ion Chromatography - DL

Lab Sample ID: 160-22211-1 MS
Matrix: Water
Analysis Batch: 307867

Client Sample ID: PZ-106-SD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride - DL	130		100	225		mg/L		92	90 - 110

Lab Sample ID: 160-22211-1 DU
Matrix: Water
Analysis Batch: 307867

Client Sample ID: PZ-106-SD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride - DL	130		132		mg/L		0.6	20

Lab Sample ID: 160-22141-G-1 MS
Matrix: Water
Analysis Batch: 312598

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride - DL	2.0		20.0	21.7		mg/L		98	90 - 110
Sulfate - DL	44		40.0	82.1		mg/L		95	90 - 110

Lab Sample ID: 160-22211-5 MS
Matrix: Water
Analysis Batch: 312598

Client Sample ID: PZ-100-SS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride - DL	0.55	H	4.00	4.68		mg/L		103	90 - 110
Sulfate - DL	36	H	8.00	44.0	E 4	mg/L		99	90 - 110

Lab Sample ID: 160-22141-G-1 DU
Matrix: Water
Analysis Batch: 312598

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride - DL	2.0		2.04		mg/L		3	20
Sulfate - DL	44		45.1		mg/L		2	20

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 160-307841/1-A
Matrix: Water
Analysis Batch: 308716

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 307841

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	3.0	ug/L		05/09/17 12:07	05/15/17 22:46	1
Iron	ND		100	30	ug/L		05/09/17 12:07	05/15/17 22:46	1
Arsenic	ND		10	4.0	ug/L		05/09/17 12:07	05/15/17 22:46	1
Barium	ND		50	15	ug/L		05/09/17 12:07	05/15/17 22:46	1
Beryllium	ND		5.0	1.5	ug/L		05/09/17 12:07	05/15/17 22:46	1
Boron	ND		100	25	ug/L		05/09/17 12:07	05/15/17 22:46	1
Cadmium	ND		5.0	1.5	ug/L		05/09/17 12:07	05/15/17 22:46	1
CaHard	ND		2500	750	ug/L		05/09/17 12:07	05/15/17 22:46	1
Calcium	ND		1000	300	ug/L		05/09/17 12:07	05/15/17 22:46	1
Chromium	ND		10	3.0	ug/L		05/09/17 12:07	05/15/17 22:46	1
Cobalt	ND		50	15	ug/L		05/09/17 12:07	05/15/17 22:46	1
Copper	ND		25	7.0	ug/L		05/09/17 12:07	05/15/17 22:46	1
Lead	ND		10	3.0	ug/L		05/09/17 12:07	05/15/17 22:46	1
Magnesium	ND		1000	300	ug/L		05/09/17 12:07	05/15/17 22:46	1
Manganese	ND		15	4.0	ug/L		05/09/17 12:07	05/15/17 22:46	1
MgHard	ND		4100	1200	ug/L		05/09/17 12:07	05/15/17 22:46	1
Nickel	ND		40	10	ug/L		05/09/17 12:07	05/15/17 22:46	1
Phosphorus	ND		250	75	ug/L		05/09/17 12:07	05/15/17 22:46	1
Selenium	ND		15	8.0	ug/L		05/09/17 12:07	05/15/17 22:46	1
Silver	ND		10	3.0	ug/L		05/09/17 12:07	05/15/17 22:46	1
Sodium	ND		1000	300	ug/L		05/09/17 12:07	05/15/17 22:46	1
Thallium	ND		20	5.0	ug/L		05/09/17 12:07	05/15/17 22:46	1
Total Hardness	ND		6600	2000	ug/L		05/09/17 12:07	05/15/17 22:46	1
Vanadium	ND		50	25	ug/L		05/09/17 12:07	05/15/17 22:46	1
Zinc	ND		20	6.0	ug/L		05/09/17 12:07	05/15/17 22:46	1

Lab Sample ID: LCS 160-307841/2-A
Matrix: Water
Analysis Batch: 308716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 307841

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	500	450		ug/L		90	80 - 120
Iron	10000	10200		ug/L		102	80 - 120
Arsenic	1000	916		ug/L		92	80 - 120
Barium	1000	1030		ug/L		103	80 - 120
Beryllium	100	98.9		ug/L		99	80 - 120
Boron	200	197		ug/L		98	80 - 120
Cadmium	1000	903		ug/L		90	80 - 120
Calcium	10000	9750		ug/L		98	80 - 120
Chromium	1000	948		ug/L		95	80 - 120
Cobalt	1000	964		ug/L		96	80 - 120
Copper	1000	937		ug/L		94	80 - 120
Lead	1000	968		ug/L		97	80 - 120
Magnesium	10000	10000		ug/L		100	80 - 120
Manganese	1000	1000		ug/L		100	80 - 120
Nickel	1000	971		ug/L		97	80 - 120
Phosphorus	1000	982		ug/L		98	80 - 120
Selenium	500	458		ug/L		92	80 - 120

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

Lab Sample ID: LCS 160-307841/2-A
Matrix: Water
Analysis Batch: 308716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 307841

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	200	189		ug/L		94	80 - 120
Sodium	10000	10100		ug/L		101	80 - 120
Thallium	200	205		ug/L		102	80 - 120
Vanadium	1000	1010		ug/L		101	80 - 120
Zinc	1000	909		ug/L		91	80 - 120

Lab Sample ID: 160-22141-I-1-B MS ^5
Matrix: Water
Analysis Batch: 308716

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 307841

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		500	464		ug/L		93	75 - 125
Iron	900		10000	11300		ug/L		104	75 - 125
Arsenic	ND		1000	945		ug/L		95	75 - 125
Barium	110	J	1000	1180		ug/L		107	75 - 125
Beryllium	ND		100	101		ug/L		101	75 - 125
Boron	ND		200	235	J	ug/L		118	75 - 125
Cadmium	ND		1000	935		ug/L		93	75 - 125
Calcium	89000		10000	102000	4	ug/L		128	75 - 125
Chromium	ND		1000	960		ug/L		96	75 - 125
Cobalt	ND		1000	980		ug/L		98	75 - 125
Copper	ND		1000	976		ug/L		98	75 - 125
Lead	ND		1000	998		ug/L		100	75 - 125
Magnesium	54000		10000	64000	4	ug/L		102	75 - 125
Manganese	110		1000	1040		ug/L		93	75 - 125
Nickel	ND		1000	989		ug/L		99	75 - 125
Phosphorus	ND		1000	1030	J	ug/L		103	75 - 125
Selenium	ND		500	497		ug/L		99	75 - 125
Silver	ND		200	194		ug/L		97	75 - 125
Sodium	19000		10000	29700		ug/L		111	75 - 125
Thallium	ND		200	215		ug/L		108	75 - 125
Vanadium	ND		1000	1020		ug/L		102	75 - 125
Zinc	ND		1000	941		ug/L		94	75 - 125

Lab Sample ID: 160-22141-I-1-C MSD ^5
Matrix: Water
Analysis Batch: 308716

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 307841

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		500	468		ug/L		94	75 - 125	1	20
Iron	900		10000	11000		ug/L		101	75 - 125	3	20
Arsenic	ND		1000	942		ug/L		94	75 - 125	0	20
Barium	110	J	1000	1140		ug/L		102	75 - 125	4	20
Beryllium	ND		100	99.0		ug/L		99	75 - 125	2	20
Boron	ND		200	225	J	ug/L		112	75 - 125	5	20
Cadmium	ND		1000	926		ug/L		93	75 - 125	1	20
Calcium	89000		10000	101000	4	ug/L		121	75 - 125	1	20
Chromium	ND		1000	949		ug/L		95	75 - 125	1	20
Cobalt	ND		1000	968		ug/L		97	75 - 125	1	20

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

Lab Sample ID: 160-22141-I-1-C MSD ^5
Matrix: Water
Analysis Batch: 308716

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 307841

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Copper	ND		1000	965		ug/L		97	75 - 125	1	20
Lead	ND		1000	988		ug/L		99	75 - 125	1	20
Magnesium	54000		10000	63000	4	ug/L		93	75 - 125	1	20
Manganese	110		1000	1040		ug/L		93	75 - 125	0	20
Nickel	ND		1000	977		ug/L		98	75 - 125	1	20
Phosphorus	ND		1000	1030	J	ug/L		103	75 - 125	0	20
Selenium	ND		500	472		ug/L		94	75 - 125	5	20
Silver	ND		200	191		ug/L		96	75 - 125	2	20
Sodium	19000		10000	28800		ug/L		102	75 - 125	3	20
Thallium	ND		200	216		ug/L		108	75 - 125	0	20
Vanadium	ND		1000	979		ug/L		98	75 - 125	4	20
Zinc	ND		1000	930		ug/L		93	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 160-309787/1-A
Matrix: Water
Analysis Batch: 309862

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 309787

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		05/22/17 09:55	05/22/17 19:17	1

Lab Sample ID: LCS 160-309787/2-A
Matrix: Water
Analysis Batch: 309862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 309787

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	4.56		ug/L		91	80 - 120

Lab Sample ID: 160-22117-I-3-C MS
Matrix: Water
Analysis Batch: 309862

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 309787

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		5.00	4.17		ug/L		83	80 - 120

Lab Sample ID: 160-22117-I-3-D MSD
Matrix: Water
Analysis Batch: 309862

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 309787

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		5.00	4.21		ug/L		84	80 - 120	1	20

Lab Sample ID: MB 160-309789/1-A
Matrix: Water
Analysis Batch: 309862

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 309789

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		05/22/17 10:05	05/22/17 21:02	1

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: LCS 160-309789/2-A
Matrix: Water
Analysis Batch: 309862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 309789

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	4.57		ug/L		91	80 - 120

Lab Sample ID: 160-22211-8 MS
Matrix: Water
Analysis Batch: 309862

Client Sample ID: PZ-105-SS
Prep Type: Total/NA
Prep Batch: 309789

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		5.00	4.11		ug/L		82	80 - 120

Lab Sample ID: 160-22211-8 MSD
Matrix: Water
Analysis Batch: 309862

Client Sample ID: PZ-105-SS
Prep Type: Total/NA
Prep Batch: 309789

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		5.00	4.14		ug/L		83	80 - 120	1	20

Method: 160.1 - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 160-308218/1
Matrix: Water
Analysis Batch: 308218

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	ND		5.0	3.5	mg/L			05/11/17 07:54	1

Lab Sample ID: LCS 160-308218/2
Matrix: Water
Analysis Batch: 308218

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids (TDS)	500	503		mg/L		101	90 - 110

Lab Sample ID: 160-22211-1 DU
Matrix: Water
Analysis Batch: 308218

Client Sample ID: PZ-106-SD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids (TDS)	810		820		mg/L		1	5

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 160-310709/15
Matrix: Water
Analysis Batch: 310709

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	25.4	J	50	22	ug/L			05/25/17 16:46	1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 160-310709/16
Matrix: Water
Analysis Batch: 310709

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	500	493		ug/L		99	90 - 110

Lab Sample ID: MB 160-311549/15
Matrix: Water
Analysis Batch: 311549

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		50	22	ug/L			05/31/17 23:12	1

Lab Sample ID: LCS 160-311549/16
Matrix: Water
Analysis Batch: 311549

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	500	458		ug/L		92	90 - 110

Lab Sample ID: 160-22238-D-2 MS
Matrix: Water
Analysis Batch: 311549

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	250	F1	500	839	F1	ug/L		118	90 - 110

Lab Sample ID: 160-22238-D-2 DU
Matrix: Water
Analysis Batch: 311549

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia	250	F1	254		ug/L		2	20

Method: 350.1 - Nitrogen, Ammonia - DL

Lab Sample ID: 160-22117-G-2 MS ^10
Matrix: Water
Analysis Batch: 310709

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia - DL	2900	B F1	5000	5380	F1	ug/L		51	90 - 110

Lab Sample ID: 160-22211-1 MS
Matrix: Water
Analysis Batch: 310709

Client Sample ID: PZ-106-SD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia - DL	27000	B F1	10000	32200	F1	ug/L		56	90 - 110

Method: 350.1 - Nitrogen, Ammonia - DL (Continued)

Lab Sample ID: 160-22117-G-2 DU ^10
Matrix: Water
Analysis Batch: 310709

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ammonia - DL	2900	B F1		2980		ug/L				4	20

Method: 353.1 Preserved - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 160-310165/17
Matrix: Water
Analysis Batch: 310165

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	41.1	J	50	22	ug/L			05/23/17 16:23	1

Lab Sample ID: LCS 160-310165/18
Matrix: Water
Analysis Batch: 310165

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate Nitrite as N			500	493		ug/L		99	90 - 110		

Lab Sample ID: 160-22117-G-2 MS
Matrix: Water
Analysis Batch: 310165

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate Nitrite as N	24	J B F1	500	28.0	J F1	ug/L		0.8	90 - 110		

Lab Sample ID: 160-22211-1 MS
Matrix: Water
Analysis Batch: 310165

Client Sample ID: PZ-106-SD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Nitrate Nitrite as N	ND	F1	500	27.7	J F1	ug/L		6	90 - 110		

Lab Sample ID: 160-22117-G-2 DU
Matrix: Water
Analysis Batch: 310165

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Nitrate Nitrite as N	24	J B F1		24.0	J	ug/L				0	20

Lab Sample ID: MB 160-310708/17
Matrix: Water
Analysis Batch: 310708

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		50	22	ug/L			05/25/17 16:38	1

Method: 353.1 Preserved - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: LCS 160-310708/18
Matrix: Water
Analysis Batch: 310708

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	500	516		ug/L		103	90 - 110

Lab Sample ID: 160-22238-D-2 MS
Matrix: Water
Analysis Batch: 310708

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	ND	F1	500	23.7	J F1	ug/L		5	90 - 110

Lab Sample ID: 160-22238-D-2 DU
Matrix: Water
Analysis Batch: 310708

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	ND	F1	ND		ug/L		NC	20

Method: 410.4 - COD

Lab Sample ID: MB 160-311005/3-A
Matrix: Water
Analysis Batch: 311134

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 311005

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		5.0	2.4	mg/L		05/30/17 08:15	05/30/17 14:00	1

Lab Sample ID: LCS 160-311005/4-A
Matrix: Water
Analysis Batch: 311134

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 311005

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	50.0	50.0		mg/L		100	90 - 110

Lab Sample ID: 160-22211-2 MS
Matrix: Water
Analysis Batch: 311134

Client Sample ID: PZ-205-SS
Prep Type: Total/NA
Prep Batch: 311005

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	3.0	J	50.0	53.0		mg/L		100	90 - 110

Lab Sample ID: 160-22211-2 DU
Matrix: Water
Analysis Batch: 311134

Client Sample ID: PZ-205-SS
Prep Type: Total/NA
Prep Batch: 311005

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chemical Oxygen Demand	3.0	J	3.00	J	mg/L		0	20

Method: 415.1 - TOC

Lab Sample ID: MB 160-310102/27
Matrix: Water
Analysis Batch: 310102

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	ND		1.0	0.72	mg/L			05/22/17 21:22	1

Lab Sample ID: LCS 160-310102/28
Matrix: Water
Analysis Batch: 310102

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	10.0	10.3		mg/L		103	90 - 110

Lab Sample ID: MB 160-311962/4
Matrix: Water
Analysis Batch: 311962

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	ND		1.0	0.72	mg/L			06/03/17 16:46	1

Lab Sample ID: LCS 160-311962/5
Matrix: Water
Analysis Batch: 311962

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	10.0	9.68		mg/L		97	90 - 110

Lab Sample ID: 160-22211-7 MS
Matrix: Water
Analysis Batch: 311962

Client Sample ID: PZ-212-SD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	3.0	H	5.00	7.31		mg/L		87	76 - 120

Lab Sample ID: 160-22211-7 DU
Matrix: Water
Analysis Batch: 311962

Client Sample ID: PZ-212-SD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon	3.0	H	2.47		mg/L		19	20

Method: 415.1 - TOC - DL

Lab Sample ID: 160-22211-1 MS
Matrix: Water
Analysis Batch: 310102

Client Sample ID: PZ-106-SD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - DL	18		25.0	45.1		mg/L		108	76 - 120

Method: 415.1 - TOC - DL (Continued)

Lab Sample ID: 160-22211-1 DU
Matrix: Water
Analysis Batch: 310102

Client Sample ID: PZ-106-SD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Organic Carbon - DL	18			18.0		mg/L				0.2	20

Method: 906.0 - Tritium, Total (LSC)

Lab Sample ID: MB 160-311343/1-A
Matrix: Water
Analysis Batch: 311709

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 311343

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	74.77	U	82.7	83.0	500	136	pCi/L	05/31/17 12:21	06/01/17 14:10	1

Lab Sample ID: LCS 160-311343/2-A
Matrix: Water
Analysis Batch: 311546

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 311343

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Tritium			2910	2738		309	500	157	pCi/L	94	74 - 114		

Lab Sample ID: 160-22476-A-2-B MS
Matrix: Water
Analysis Batch: 311546

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 311343

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Tritium	1810		2900	4482		459	500	157	pCi/L	92	67 - 130		

Lab Sample ID: 160-22476-A-1-B DU
Matrix: Water
Analysis Batch: 311546

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 311343

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Tritium	585			423.0		117	500	154	pCi/L			0.66	1

GC/MS VOA

Analysis Batch: 308482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22211-1	PZ-106-SD	Total/NA	Water	8260C	
160-22211-2	PZ-205-SS	Total/NA	Water	8260C	
160-22211-3	PZ-106-SS	Total/NA	Water	8260C	
160-22211-4	PZ-100-SD	Total/NA	Water	8260C	
160-22211-5	PZ-100-SS	Total/NA	Water	8260C	
160-22211-6	PZ-201A-SS	Total/NA	Water	8260C	
160-22211-7	PZ-212-SD	Total/NA	Water	8260C	
160-22211-8	PZ-105-SS	Total/NA	Water	8260C	
160-22211-9	PZ-212-SS	Total/NA	Water	8260C	
160-22211-10	TRIP BLANK	Total/NA	Water	8260C	
MB 160-308482/7	Method Blank	Total/NA	Water	8260C	
LCS 160-308482/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 160-308482/5	Lab Control Sample Dup	Total/NA	Water	8260C	
160-22211-1 MS	PZ-106-SD	Total/NA	Water	8260C	
160-22211-1 MSD	PZ-106-SD	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 307816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22211-1	PZ-106-SD	Total/NA	Water	300.0	
160-22211-2	PZ-205-SS	Total/NA	Water	300.0	
160-22211-3	PZ-106-SS	Total/NA	Water	300.0	
160-22211-4	PZ-100-SD	Total/NA	Water	300.0	
160-22211-5	PZ-100-SS	Total/NA	Water	300.0	
160-22211-6	PZ-201A-SS	Total/NA	Water	300.0	
160-22211-7	PZ-212-SD	Total/NA	Water	300.0	
160-22211-8	PZ-105-SS	Total/NA	Water	300.0	
160-22211-9	PZ-212-SS	Total/NA	Water	300.0	
MB 160-307816/3	Method Blank	Total/NA	Water	300.0	
LCS 160-307816/4	Lab Control Sample	Total/NA	Water	300.0	
160-22211-1 MS	PZ-106-SD	Total/NA	Water	300.0	
160-22211-1 DU	PZ-106-SD	Total/NA	Water	300.0	

Analysis Batch: 307867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22211-1 - DL	PZ-106-SD	Total/NA	Water	300.0	
160-22211-2 - DL	PZ-205-SS	Total/NA	Water	300.0	
160-22211-3 - DL	PZ-106-SS	Total/NA	Water	300.0	
160-22211-4 - DL	PZ-100-SD	Total/NA	Water	300.0	
160-22211-5 - DL	PZ-100-SS	Total/NA	Water	300.0	
160-22211-6 - DL	PZ-201A-SS	Total/NA	Water	300.0	
160-22211-7 - DL	PZ-212-SD	Total/NA	Water	300.0	
160-22211-8 - DL	PZ-105-SS	Total/NA	Water	300.0	
160-22211-9 - DL	PZ-212-SS	Total/NA	Water	300.0	
MB 160-307867/9	Method Blank	Total/NA	Water	300.0	
LCS 160-307867/10	Lab Control Sample	Total/NA	Water	300.0	
160-22211-1 MS - DL	PZ-106-SD	Total/NA	Water	300.0	
160-22211-1 DU - DL	PZ-106-SD	Total/NA	Water	300.0	

HPLC/IC (Continued)

Analysis Batch: 312598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22211-1 - DL	PZ-106-SD	Total/NA	Water	300.0	
160-22211-2	PZ-205-SS	Total/NA	Water	300.0	
160-22211-2 - DL	PZ-205-SS	Total/NA	Water	300.0	
160-22211-3 - DL	PZ-106-SS	Total/NA	Water	300.0	
160-22211-4 - DL	PZ-100-SD	Total/NA	Water	300.0	
160-22211-5 - DL	PZ-100-SS	Total/NA	Water	300.0	
160-22211-6	PZ-201A-SS	Total/NA	Water	300.0	
160-22211-6 - DL	PZ-201A-SS	Total/NA	Water	300.0	
160-22211-7	PZ-212-SD	Total/NA	Water	300.0	
160-22211-7 - DL	PZ-212-SD	Total/NA	Water	300.0	
160-22211-8	PZ-105-SS	Total/NA	Water	300.0	
160-22211-8 - DL	PZ-105-SS	Total/NA	Water	300.0	
160-22211-9	PZ-212-SS	Total/NA	Water	300.0	
160-22211-9 - DL	PZ-212-SS	Total/NA	Water	300.0	
MB 160-312598/125	Method Blank	Total/NA	Water	300.0	
LCS 160-312598/126	Lab Control Sample	Total/NA	Water	300.0	
160-22141-G-1 MS - DL	Matrix Spike	Total/NA	Water	300.0	
160-22211-5 MS - DL	PZ-100-SS	Total/NA	Water	300.0	
160-22141-G-1 DU - DL	Duplicate	Total/NA	Water	300.0	

Metals

Prep Batch: 307841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22211-1	PZ-106-SD	Total/NA	Water	3010A	
160-22211-2	PZ-205-SS	Total/NA	Water	3010A	
160-22211-3	PZ-106-SS	Total/NA	Water	3010A	
160-22211-4	PZ-100-SD	Total/NA	Water	3010A	
160-22211-5	PZ-100-SS	Total/NA	Water	3010A	
160-22211-6	PZ-201A-SS	Total/NA	Water	3010A	
160-22211-7	PZ-212-SD	Total/NA	Water	3010A	
160-22211-8	PZ-105-SS	Total/NA	Water	3010A	
160-22211-9	PZ-212-SS	Total/NA	Water	3010A	
MB 160-307841/1-A	Method Blank	Total/NA	Water	3010A	
LCS 160-307841/2-A	Lab Control Sample	Total/NA	Water	3010A	
160-22141-I-1-B MS ^5	Matrix Spike	Total/NA	Water	3010A	
160-22141-I-1-C MSD ^5	Matrix Spike Duplicate	Total/NA	Water	3010A	

Analysis Batch: 308716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22211-1	PZ-106-SD	Total/NA	Water	6010C	307841
160-22211-2	PZ-205-SS	Total/NA	Water	6010C	307841
160-22211-3	PZ-106-SS	Total/NA	Water	6010C	307841
160-22211-4	PZ-100-SD	Total/NA	Water	6010C	307841
160-22211-5	PZ-100-SS	Total/NA	Water	6010C	307841
160-22211-6	PZ-201A-SS	Total/NA	Water	6010C	307841
160-22211-7	PZ-212-SD	Total/NA	Water	6010C	307841
160-22211-8	PZ-105-SS	Total/NA	Water	6010C	307841
160-22211-9	PZ-212-SS	Total/NA	Water	6010C	307841
MB 160-307841/1-A	Method Blank	Total/NA	Water	6010C	307841

Metals (Continued)

Analysis Batch: 308716 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 160-307841/2-A	Lab Control Sample	Total/NA	Water	6010C	307841
160-22141-I-1-B MS ^5	Matrix Spike	Total/NA	Water	6010C	307841
160-22141-I-1-C MSD ^5	Matrix Spike Duplicate	Total/NA	Water	6010C	307841

Prep Batch: 309787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22211-1	PZ-106-SD	Total/NA	Water	7470A	
160-22211-2	PZ-205-SS	Total/NA	Water	7470A	
160-22211-3	PZ-106-SS	Total/NA	Water	7470A	
160-22211-4	PZ-100-SD	Total/NA	Water	7470A	
160-22211-5	PZ-100-SS	Total/NA	Water	7470A	
160-22211-6	PZ-201A-SS	Total/NA	Water	7470A	
MB 160-309787/1-A	Method Blank	Total/NA	Water	7470A	
LCS 160-309787/2-A	Lab Control Sample	Total/NA	Water	7470A	
160-22117-I-3-C MS	Matrix Spike	Total/NA	Water	7470A	
160-22117-I-3-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Prep Batch: 309789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22211-7	PZ-212-SD	Total/NA	Water	7470A	
160-22211-8	PZ-105-SS	Total/NA	Water	7470A	
160-22211-9	PZ-212-SS	Total/NA	Water	7470A	
MB 160-309789/1-A	Method Blank	Total/NA	Water	7470A	
LCS 160-309789/2-A	Lab Control Sample	Total/NA	Water	7470A	
160-22211-8 MS	PZ-105-SS	Total/NA	Water	7470A	
160-22211-8 MSD	PZ-105-SS	Total/NA	Water	7470A	

Analysis Batch: 309862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22211-1	PZ-106-SD	Total/NA	Water	7470A	309787
160-22211-2	PZ-205-SS	Total/NA	Water	7470A	309787
160-22211-3	PZ-106-SS	Total/NA	Water	7470A	309787
160-22211-4	PZ-100-SD	Total/NA	Water	7470A	309787
160-22211-5	PZ-100-SS	Total/NA	Water	7470A	309787
160-22211-6	PZ-201A-SS	Total/NA	Water	7470A	309787
160-22211-7	PZ-212-SD	Total/NA	Water	7470A	309789
160-22211-8	PZ-105-SS	Total/NA	Water	7470A	309789
160-22211-9	PZ-212-SS	Total/NA	Water	7470A	309789
MB 160-309787/1-A	Method Blank	Total/NA	Water	7470A	309787
MB 160-309789/1-A	Method Blank	Total/NA	Water	7470A	309789
LCS 160-309787/2-A	Lab Control Sample	Total/NA	Water	7470A	309787
LCS 160-309789/2-A	Lab Control Sample	Total/NA	Water	7470A	309789
160-22117-I-3-C MS	Matrix Spike	Total/NA	Water	7470A	309787
160-22117-I-3-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	309787
160-22211-8 MS	PZ-105-SS	Total/NA	Water	7470A	309789
160-22211-8 MSD	PZ-105-SS	Total/NA	Water	7470A	309789

General Chemistry

Analysis Batch: 308218

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22211-1	PZ-106-SD	Total/NA	Water	160.1	
160-22211-2	PZ-205-SS	Total/NA	Water	160.1	
160-22211-3	PZ-106-SS	Total/NA	Water	160.1	
160-22211-4	PZ-100-SD	Total/NA	Water	160.1	
160-22211-5	PZ-100-SS	Total/NA	Water	160.1	
160-22211-6	PZ-201A-SS	Total/NA	Water	160.1	
160-22211-7	PZ-212-SD	Total/NA	Water	160.1	
160-22211-8	PZ-105-SS	Total/NA	Water	160.1	
160-22211-9	PZ-212-SS	Total/NA	Water	160.1	
MB 160-308218/1	Method Blank	Total/NA	Water	160.1	
LCS 160-308218/2	Lab Control Sample	Total/NA	Water	160.1	
160-22211-1 DU	PZ-106-SD	Total/NA	Water	160.1	

Analysis Batch: 310102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22211-1 - DL	PZ-106-SD	Total/NA	Water	415.1	
160-22211-2	PZ-205-SS	Total/NA	Water	415.1	
160-22211-3 - DL	PZ-106-SS	Total/NA	Water	415.1	
160-22211-4	PZ-100-SD	Total/NA	Water	415.1	
160-22211-5	PZ-100-SS	Total/NA	Water	415.1	
160-22211-6	PZ-201A-SS	Total/NA	Water	415.1	
160-22211-8	PZ-105-SS	Total/NA	Water	415.1	
160-22211-9	PZ-212-SS	Total/NA	Water	415.1	
MB 160-310102/27	Method Blank	Total/NA	Water	415.1	
LCS 160-310102/28	Lab Control Sample	Total/NA	Water	415.1	
160-22211-1 MS - DL	PZ-106-SD	Total/NA	Water	415.1	
160-22211-1 DU - DL	PZ-106-SD	Total/NA	Water	415.1	

Analysis Batch: 310165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22211-1	PZ-106-SD	Total/NA	Water	353.1 Preserved	
160-22211-2	PZ-205-SS	Total/NA	Water	353.1 Preserved	
160-22211-3	PZ-106-SS	Total/NA	Water	353.1 Preserved	
160-22211-4	PZ-100-SD	Total/NA	Water	353.1 Preserved	
160-22211-5	PZ-100-SS	Total/NA	Water	353.1 Preserved	
160-22211-6	PZ-201A-SS	Total/NA	Water	353.1 Preserved	
MB 160-310165/17	Method Blank	Total/NA	Water	353.1 Preserved	
LCS 160-310165/18	Lab Control Sample	Total/NA	Water	353.1 Preserved	
160-22117-G-2 MS	Matrix Spike	Total/NA	Water	353.1 Preserved	
160-22211-1 MS	PZ-106-SD	Total/NA	Water	353.1 Preserved	
160-22117-G-2 DU	Duplicate	Total/NA	Water	353.1 Preserved	

Analysis Batch: 310708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22211-7	PZ-212-SD	Total/NA	Water	353.1 Preserved	
160-22211-8	PZ-105-SS	Total/NA	Water	353.1 Preserved	
160-22211-9	PZ-212-SS	Total/NA	Water	353.1 Preserved	
MB 160-310708/17	Method Blank	Total/NA	Water	353.1 Preserved	
LCS 160-310708/18	Lab Control Sample	Total/NA	Water	353.1 Preserved	
160-22238-D-2 MS	Matrix Spike	Total/NA	Water	353.1 Preserved	
160-22238-D-2 DU	Duplicate	Total/NA	Water	353.1 Preserved	

QC Association Summary

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22211-1

Analysis Batch: 310709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22211-1 - DL	PZ-106-SD	Total/NA	Water	350.1	
160-22211-2	PZ-205-SS	Total/NA	Water	350.1	
160-22211-3	PZ-106-SS	Total/NA	Water	350.1	
160-22211-4	PZ-100-SD	Total/NA	Water	350.1	
160-22211-5	PZ-100-SS	Total/NA	Water	350.1	
160-22211-6	PZ-201A-SS	Total/NA	Water	350.1	
MB 160-310709/15	Method Blank	Total/NA	Water	350.1	
LCS 160-310709/16	Lab Control Sample	Total/NA	Water	350.1	
160-22117-G-2 MS ^10 - DL	Matrix Spike	Total/NA	Water	350.1	
160-22211-1 MS - DL	PZ-106-SD	Total/NA	Water	350.1	
160-22117-G-2 DU ^10 - DL	Duplicate	Total/NA	Water	350.1	

Prep Batch: 311005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22211-1	PZ-106-SD	Total/NA	Water	410.4	
160-22211-2	PZ-205-SS	Total/NA	Water	410.4	
160-22211-3	PZ-106-SS	Total/NA	Water	410.4	
160-22211-4	PZ-100-SD	Total/NA	Water	410.4	
160-22211-5	PZ-100-SS	Total/NA	Water	410.4	
160-22211-6	PZ-201A-SS	Total/NA	Water	410.4	
160-22211-7	PZ-212-SD	Total/NA	Water	410.4	
160-22211-8	PZ-105-SS	Total/NA	Water	410.4	
160-22211-9	PZ-212-SS	Total/NA	Water	410.4	
MB 160-311005/3-A	Method Blank	Total/NA	Water	410.4	
LCS 160-311005/4-A	Lab Control Sample	Total/NA	Water	410.4	
160-22211-2 MS	PZ-205-SS	Total/NA	Water	410.4	
160-22211-2 DU	PZ-205-SS	Total/NA	Water	410.4	

Analysis Batch: 311134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22211-1	PZ-106-SD	Total/NA	Water	410.4	311005
160-22211-2	PZ-205-SS	Total/NA	Water	410.4	311005
160-22211-3	PZ-106-SS	Total/NA	Water	410.4	311005
160-22211-4	PZ-100-SD	Total/NA	Water	410.4	311005
160-22211-5	PZ-100-SS	Total/NA	Water	410.4	311005
160-22211-6	PZ-201A-SS	Total/NA	Water	410.4	311005
160-22211-7	PZ-212-SD	Total/NA	Water	410.4	311005
160-22211-8	PZ-105-SS	Total/NA	Water	410.4	311005
160-22211-9	PZ-212-SS	Total/NA	Water	410.4	311005
MB 160-311005/3-A	Method Blank	Total/NA	Water	410.4	311005
LCS 160-311005/4-A	Lab Control Sample	Total/NA	Water	410.4	311005
160-22211-2 MS	PZ-205-SS	Total/NA	Water	410.4	311005
160-22211-2 DU	PZ-205-SS	Total/NA	Water	410.4	311005

Analysis Batch: 311549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22211-7	PZ-212-SD	Total/NA	Water	350.1	
160-22211-8	PZ-105-SS	Total/NA	Water	350.1	
160-22211-9	PZ-212-SS	Total/NA	Water	350.1	
MB 160-311549/15	Method Blank	Total/NA	Water	350.1	
LCS 160-311549/16	Lab Control Sample	Total/NA	Water	350.1	
160-22238-D-2 MS	Matrix Spike	Total/NA	Water	350.1	
160-22238-D-2 DU	Duplicate	Total/NA	Water	350.1	

QC Association Summary

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22211-1

Analysis Batch: 311962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22211-7	PZ-212-SD	Total/NA	Water	415.1	
MB 160-311962/4	Method Blank	Total/NA	Water	415.1	
LCS 160-311962/5	Lab Control Sample	Total/NA	Water	415.1	
160-22211-7 MS	PZ-212-SD	Total/NA	Water	415.1	
160-22211-7 DU	PZ-212-SD	Total/NA	Water	415.1	

Rad

Prep Batch: 311343

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22211-1	PZ-106-SD	Total/NA	Water	LSC_Dist_Susp	
160-22211-2	PZ-205-SS	Total/NA	Water	LSC_Dist_Susp	
160-22211-3	PZ-106-SS	Total/NA	Water	LSC_Dist_Susp	
160-22211-4	PZ-100-SD	Total/NA	Water	LSC_Dist_Susp	
160-22211-5	PZ-100-SS	Total/NA	Water	LSC_Dist_Susp	
160-22211-6	PZ-201A-SS	Total/NA	Water	LSC_Dist_Susp	
160-22211-7	PZ-212-SD	Total/NA	Water	LSC_Dist_Susp	
160-22211-8	PZ-105-SS	Total/NA	Water	LSC_Dist_Susp	
160-22211-9	PZ-212-SS	Total/NA	Water	LSC_Dist_Susp	
MB 160-311343/1-A	Method Blank	Total/NA	Water	LSC_Dist_Susp	
LCS 160-311343/2-A	Lab Control Sample	Total/NA	Water	LSC_Dist_Susp	
160-22476-A-2-B MS	Matrix Spike	Total/NA	Water	LSC_Dist_Susp	
160-22476-A-1-B DU	Duplicate	Total/NA	Water	LSC_Dist_Susp	

Surrogate Summary

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22211-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	12DCE	TOL
Lab Sample ID	Client Sample ID	(71-139)	(80-121)	(76-121)	(80-129)
160-22211-1	PZ-106-SD	98	99	100	95
160-22211-1 MS	PZ-106-SD	98	91	91	93
160-22211-1 MSD	PZ-106-SD	102	93	93	94
160-22211-2	PZ-205-SS	98	100	100	96
160-22211-3	PZ-106-SS	96	99	100	96
160-22211-4	PZ-100-SD	100	102	102	98
160-22211-5	PZ-100-SS	98	100	100	95
160-22211-6	PZ-201A-SS	98	100	104	96
160-22211-7	PZ-212-SD	98	100	103	100
160-22211-8	PZ-105-SS	94	96	99	94
160-22211-9	PZ-212-SS	101	107	110	102
160-22211-10	TRIP BLANK	96	95	95	94
LCS 160-308482/4	Lab Control Sample	98	94	92	99
LCSD 160-308482/5	Lab Control Sample Dup	103	94	90	100
MB 160-308482/7	Method Blank	95	96	93	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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TestAmerica Job ID: 160-22238-1
Client Project/Site: Groundwater -2nd Quarter Sampling Event

For:
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Attn: Brenna McDonald

Authorized for release by:
6/14/2017 5:39:15 AM

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LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 160-22238-1

Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

Client: Missouri Attorney General's Office

Project: Groundwater - 2nd Quarter 2017 Sampling Event

Report Number: 160-22238-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica St. Louis attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results for Chemistry analyses are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header. All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy unless requested as wet weight by the client.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 05/09/2017; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 2.8° C.

Receipt Exceptions

The following sample was submitted for analysis; however, it was not listed on the Chain-of-Custody (COC): DUPI 050817 (160-22238-8). All available information was taken from sample container.

VOLATILE ORGANIC COMPOUNDS (GC MS)

Samples TRIPBLANK (160-22238-1), PZ-104-KS (160-22238-2), PZ-104-SD (160-22238-3), PZ-104-SS (160-22238-4), PZ-116-SS (160-22238-5), PZ-205-AS (160-22238-6), PZ-107-SS (160-22238-7) and DUPI 050817 (160-22238-8) were analyzed for volatile organic compounds (GC MS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 05/15/2017, 05/16/2017 and 05/17/2017.

The following sample in batch 160-308591 was analyzed at reduced volume due to high concentrations of target analytes: PZ-104-SD (160-22238-3).The reporting limits have been elevated by the appropriate factor.

Job ID: 160-22238-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

The following compounds did not meet the minimum relative response factor limits in the continuing calibration verification (CCV) associated with batch 160-308591: Acetone and 2-Butanone (MEK). A low-level LOQV was analyzed at the reporting limit (5ug/L) and the affected analytes were detected. Target analytes recovering above the reporting limit will be qualified and reported. (CCVIS 160-308591/3)

The following volatile samples in analytical batch 160-308591 were analyzed with significant headspace in the sample vial: PZ-104-SD (160-22238-3), PZ-107-SS (160-22238-7) and DUPI 050817 (160-22238-8). Significant headspace is defined as a bubble greater than 6 mm in diameter.

The following compounds did not meet the minimum relative response factor limits in the continuing calibration verification (CCV) associated with batch 160-308482: Acetone and 2-Butanone (MEK). A low-level LOQV was analyzed at the reporting limit (5ug/L) and the affected analytes were detected. Target analytes recovering above the reporting limit will be qualified and reported. (CCVIS 160-308482/3)

The following volatile samples in analytical batch 160-308482 were analyzed with significant headspace in the sample vial: TRIPBLANK (160-22238-1), PZ-104-KS (160-22238-2), PZ-104-SD (160-22238-3), PZ-104-SS (160-22238-4) and PZ-116-SS (160-22238-5). Significant headspace is defined as a bubble greater than 6 mm in diameter.

The following compounds did not meet the minimum relative response factor limits in the continuing calibration verification (CCV) associated with batch 160-309165: Acetone and 2-Butanone (MEK). A low-level LOQV was analyzed at the reporting limit (5ug/L) and the affected analytes were detected. Target analytes recovering above the reporting limit will be qualified and reported. (CCVIS 160-309165/3)

The continuing calibration verification (CCV) associated with batch 160-309165 recovered above the upper control limit for Methyl bromide. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. (CCVIS 160-309165/3)

The following sample in batch 160-309165 was analyzed at reduced volume due to high concentrations of target analytes: PZ-205-AS (160-22238-6). The reporting limits have been elevated by the appropriate factor.

According to the COC, the following sample in batch 160-309165 was presumed to be preserved to a pH < 2: PZ-205-AS (160-22238-6). Due to the potential loss of volatile constituents, VOA vials are not checked for pH preservation until the time of analysis. Sample pH was not less than 2. Sample was analyzed outside the 7 day, unpreserved, holding time. The original, undiluted analysis of this sample was performed within holding time.

The following volatile sample in batch 160-309165 was analyzed with significant headspace in the sample vial: (160-22264-A-2). Significant headspace is defined as a bubble greater than 6 mm in diameter.

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

TOTAL METALS (ICP)

Samples PZ-104-KS (160-22238-2), PZ-104-SD (160-22238-3), PZ-104-SS (160-22238-4), PZ-116-SS (160-22238-5), PZ-205-AS (160-22238-6), PZ-107-SS (160-22238-7) and DUPI 050817 (160-22238-8) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 05/10/2017 and analyzed on 05/16/2017, 06/05/2017 and 06/07/2017.

The initial calibration verification (ICV) result for batch 160-308706 was above the upper control limit for thallium. Sample results were non-detects, and have been reported as qualified data. (ICV 160-308706/19)

The following samples in preparation batch 160-308147 and analytical batch 160-312045 were diluted to bring the concentration of target analytes within the calibration range: PZ-104-SD (160-22238-3), PZ-205-AS (160-22238-6) and PZ-107-SS (160-22238-7). Elevated reporting limits (RLs) are provided.

The following sample in preparation batch 160-308147 and analytical batch 160-312346 was diluted to bring the concentration of target analytes within the calibration range: PZ-205-AS (160-22238-6). Elevated reporting limits (RLs) are provided.

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

TOTAL MERCURY

Job ID: 160-22238-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

Samples PZ-104-KS (160-22238-2), PZ-104-SD (160-22238-3), PZ-104-SS (160-22238-4), PZ-116-SS (160-22238-5), PZ-205-AS (160-22238-6), PZ-107-SS (160-22238-7) and DUPI 050817 (160-22238-8) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 05/22/2017.

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

TOTAL DISSOLVED SOLIDS

Samples PZ-104-KS (160-22238-2), PZ-104-SD (160-22238-3), PZ-104-SS (160-22238-4), PZ-116-SS (160-22238-5), PZ-205-AS (160-22238-6), PZ-107-SS (160-22238-7) and DUPI 050817 (160-22238-8) were analyzed for total dissolved solids in accordance with EPA Method 160.1. The samples were analyzed on 05/12/2017.

The sample volume was reduced for the following samples in TDS batch 160-308371 to meet the method requirement of less than 200 mg dried weight remaining after evaporation: PZ-205-AS (160-22238-6) and PZ-107-SS (160-22238-7). Elevated reporting limits (RLs) are provided.

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

ANIONS, ION CHROMATOGRAPHY

Samples PZ-104-KS (160-22238-2), PZ-104-SD (160-22238-3), PZ-104-SS (160-22238-4), PZ-116-SS (160-22238-5), PZ-205-AS (160-22238-6), PZ-107-SS (160-22238-7) and DUPI 050817 (160-22238-8) were analyzed for Anions, Ion Chromatography in accordance with EPA Method 300.0. The samples were analyzed on 05/09/2017, 05/10/2017 and 06/10/2017.

The following samples in Iodide batch 160-307816 were analyzed at dilution to start (2x) due to high sample conductivities that made undiluted analysis inadvisable: PZ-104-SD (160-22238-3), PZ-205-AS (160-22238-6) and PZ-107-SS (160-22238-7). Samples 22238-3 and 22238-7 have Iodide results below the adjusted reporting limit (RL) at the initial dilution, while sample 22238-6 has an Iodide result above the adjusted RL at the initial dilution.

The following samples in Anion batch 160-307867 were diluted to bring the concentrations of Chloride within the calibration range: PZ-104-KS (160-22238-2), PZ-104-SD (160-22238-3), PZ-104-SS (160-22238-4), PZ-116-SS (160-22238-5), PZ-205-AS (160-22238-6), PZ-107-SS (160-22238-7) and DUPI 050817 (160-22238-8). Elevated reporting limits (RLs) are provided.

The following samples in Anion batch 160-312598 were diluted to bring the concentrations of target analytes within the calibration range: PZ-104-KS (160-22238-2), PZ-104-SD (160-22238-3), PZ-104-SS (160-22238-4), PZ-116-SS (160-22238-5), PZ-205-AS (160-22238-6), PZ-107-SS (160-22238-7) and DUPI 050817 (160-22238-8). Elevated reporting limits (RLs) are provided.

The following samples in Anion batch 160-312598 were re-analyzed out of 28 day holding time in this batch for Fluoride and Sulfate: PZ-104-KS (160-22238-2), PZ-104-SD (160-22238-3), PZ-104-SS (160-22238-4), PZ-116-SS (160-22238-5), PZ-205-AS (160-22238-6), PZ-107-SS (160-22238-7) and DUPI 050817 (160-22238-8). The previous in-hold runs for Chloride were not reportable for Fluoride and Sulfate from the same dilutions, thus out of hold reanalysis was required. The samples were analyzed approximately 5 days outside of holding time, and are within two times hold.

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

AMMONIA

Samples PZ-104-KS (160-22238-2), PZ-104-SD (160-22238-3), PZ-104-SS (160-22238-4), PZ-116-SS (160-22238-5), PZ-205-AS (160-22238-6), PZ-107-SS (160-22238-7) and DUPI 050817 (160-22238-8) were analyzed for ammonia in accordance with EPA Method 350.1. The samples were analyzed on 05/31/2017.

The following samples in Ammonia analytical batch 160-311549 were diluted to bring the concentration of the target analyte within the calibration range: PZ-104-SD (160-22238-3), PZ-205-AS (160-22238-6) and PZ-107-SS (160-22238-7). Elevated reporting limits (RLs) are provided.

The following matrix spike (MS) recoveries for Ammonia analytical batch 160-311549 were outside control limits: (160-22238-D-2 MS). Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Job ID: 160-22238-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

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

NITROGEN, NITRATE-NITRITE

Samples PZ-104-KS (160-22238-2), PZ-104-SD (160-22238-3), PZ-104-SS (160-22238-4), PZ-116-SS (160-22238-5), PZ-205-AS (160-22238-6), PZ-107-SS (160-22238-7) and DUPI 050817 (160-22238-8) were analyzed for Nitrogen, Nitrate-Nitrite in accordance with Method 353.1 Preserved. The samples were analyzed on 05/25/2017.

The following matrix spike (MS) recoveries for Nitrate-Nitrite analytical batch 160-310708 were outside control limits: (160-22238-D-2 MS). Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits, as well as the historical poor performance of matrix spikes from this client.

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

CHEMICAL OXYGEN DEMAND

Samples PZ-104-KS (160-22238-2), PZ-104-SD (160-22238-3), PZ-104-SS (160-22238-4), PZ-116-SS (160-22238-5), PZ-205-AS (160-22238-6), PZ-107-SS (160-22238-7) and DUPI 050817 (160-22238-8) were analyzed for chemical oxygen demand in accordance with EPA Method 410.4. The samples were prepared and analyzed on 05/30/2017.

The following samples in COD batch 160-311134 were diluted to bring the concentration of target analytes within the calibration range: PZ-104-SD (160-22238-3), PZ-205-AS (160-22238-6) and PZ-107-SS (160-22238-7). Elevated reporting limits (RLs) are provided.

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

TOTAL ORGANIC CARBON

Samples PZ-104-KS (160-22238-2), PZ-104-SD (160-22238-3), PZ-104-SS (160-22238-4), PZ-116-SS (160-22238-5), PZ-205-AS (160-22238-6), PZ-107-SS (160-22238-7) and DUPI 050817 (160-22238-8) were analyzed for total organic carbon in accordance with EPA Method 415.1. The samples were analyzed on 05/23/2017.

The following samples in TOC batch 160-310102 were diluted to bring the concentrations of the target analyte within the calibration range: PZ-104-SD (160-22238-3), PZ-205-AS (160-22238-6) and PZ-107-SS (160-22238-7). Elevated reporting limits (RLs) are provided.

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

TRITIUM, TOTAL (LSC)

Samples PZ-104-KS (160-22238-2), PZ-104-SD (160-22238-3), PZ-104-SS (160-22238-4), PZ-116-SS (160-22238-5), PZ-205-AS (160-22238-6), PZ-107-SS (160-22238-7) and DUPI 050817 (160-22238-8) were analyzed for Tritium, Total (LSC) in accordance with USEPA 906.0. The samples were prepared on 05/26/2017 and 06/01/2017 and analyzed on 05/30/2017 and 06/02/2017.

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

13715 Rider Trail North
Earth City, MO 63045
Phone (314) 298-8566 Fax (314) 298-8757

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Brenna McDonald	Lab PM: Lambert-Sykes, Chenise Y	Carrier Tracking No(s):	COC No: 160-5226-2622.1
Client Contact: Brenna McDonald	Phone: 573-453-4329	E-Mail: chenise.lambert-sykes@testamericainc.com		Page: Page 1 of 1
Company: Missouri Attorney General's Office				Job #:
Address: PO BOX 899	Due Date Requested:	Analysis Requested		
City: Jefferson City	TAT Requested (days):			
State, Zip: MO, 65102				
Phone: 573-368-2163(Tel)	PO #: Purchase Order not required			
Email: brenna.mcdonald@dnr.mo.gov	WO #:			
Project Name: Groundwater - May 2017 Sampling Event	Project #: 16006007			
Site: Bridgeton Landfill	SSOW#:			

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	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)	906.0 - Tritium	350.1, 353.1_Pres, 365.2, 410.4_LL	160.1_Calcd, 300_ORGFM_28D	6010C - Metals	415.1 - TOC	8260C - (MOD) CILM 4.2	Total Number of containers	Special Instructions/Note: Headspace
			Preservation Code:				N	S	N	D	S	A		
Tripblank	5/8/17	0800	G	Water								✓		0 of 3
PZ-104-KS	5/8/17	1020	G	Water			✓	✓	✓	✓	✓	✓		3 of 3
PZ-104-SD	5/8/17	1203	G	Water			✓	✓	✓	✓	✓	✓		3 of 3
PZ-104-SS	5/8/17	1436	G	Water			✓	✓	✓	✓	✓	✓		2 of 3
PZ-116-SS	5/8/17	1611	G	Water			✓	✓	✓	✓	✓	✓		3 of 3
PZ-205-AS	5/8/17	1724	G	W			✓	✓	✓	✓	✓	✓		1 of 3
PZ-107-SS	5/8/17	1830	G	W			✓	✓	✓	✓	✓	✓		3 of 3
DUP1 050817	5.8.17						✓	✓	✓	✓	✓	✓		@ 5-9-17 3 of 3

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
Brenna McDonald	5/9/17 0810			5-9-16 0810	TAL Mo
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:			Date/Time:	Company

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

160-22238 Chain of Custody

Remarks:

6/14/2017

Login Sample Receipt Checklist

Client: Missouri Attorney General's Office

Job Number: 160-22238-1

Login Number: 22238
List Number: 1
Creator: Clarke, Jill C

List Source: TestAmerica St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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 containers received and the COC.	False	Sample -8 was not listed on the COC. Logged per container information.
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").	False	Samples -2 through -8 were received with headspace in the vials.
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
H	Sample was prepped or analyzed beyond the specified holding time

HPLC/IC

Qualifier	Qualifier Description
H	Sample was prepped or analyzed beyond the specified holding time
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
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

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)

Method Summary

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22238-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL SL
300.0	Anions, Ion Chromatography	MCAWW	TAL SL
6010C	Metals (ICP)	SW846	TAL SL
7470A	Mercury (CVAA)	SW846	TAL SL
160.1	Solids, Total Dissolved (TDS)	MCAWW	TAL SL
350.1	Nitrogen, Ammonia	MCAWW	TAL SL
353.1 Preserved	Nitrogen, Nitrate-Nitrite	MCAWW	TAL SL
410.4	COD	MCAWW	TAL SL
415.1	TOC	MCAWW	TAL SL
906.0	Tritium, Total (LSC)	EPA	TAL SL

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.

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

Laboratory References:

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22238-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-22238-1	TRIPBLANK	Water	05/08/17 08:00	05/09/17 08:10
160-22238-2	PZ-104-KS	Water	05/08/17 10:20	05/09/17 08:10
160-22238-3	PZ-104-SD	Water	05/08/17 12:03	05/09/17 08:10
160-22238-4	PZ-104-SS	Water	05/08/17 14:36	05/09/17 08:10
160-22238-5	PZ-116-SS	Water	05/08/17 16:11	05/09/17 08:10
160-22238-6	PZ-205-AS	Water	05/08/17 17:24	05/09/17 08:10
160-22238-7	PZ-107-SS	Water	05/08/17 18:30	05/09/17 08:10
160-22238-8	DUPI 050817	Water	05/08/17 00:00	05/09/17 08:10

Detection Summary

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22238-1

Client Sample ID: TRIPBLANK — Lab Sample ID: 160-22238-1

No Detections.

Client Sample ID: PZ-104-KS — Lab Sample ID: 160-22238-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.7	J	5.0	0.25	ug/L	1		8260C	Total/NA
1,4-Dichlorobenzene	0.39	J	5.0	0.35	ug/L	1		8260C	Total/NA
Chloride - DL	41		10	1.0	mg/L	50		300.0	Total/NA
Fluoride - DL	1.7	H	0.50	0.13	mg/L	5		300.0	Total/NA
Sulfate - DL	23	H	2.5	0.25	mg/L	5		300.0	Total/NA
Iron	1100		100	30	ug/L	1		6010C	Total/NA
Barium	94		50	15	ug/L	1		6010C	Total/NA
Boron	120		100	25	ug/L	1		6010C	Total/NA
CaHard	210000		2500	750	ug/L	1		6010C	Total/NA
Calcium	85000		1000	300	ug/L	1		6010C	Total/NA
Lead	4.5	J	10	3.0	ug/L	1		6010C	Total/NA
Magnesium	38		1.0	0.30	mg/L	1		6010C	Total/NA
Manganese	15		15	4.0	ug/L	1		6010C	Total/NA
MgHard	150000		4100	1200	ug/L	1		6010C	Total/NA
Sodium	37000		1000	300	ug/L	1		6010C	Total/NA
Total Hardness	370000		6600	2000	ug/L	1		6010C	Total/NA
Total Dissolved Solids (TDS)	450		5.0	3.5	mg/L	1		160.1	Total/NA
Ammonia	250	F1	50	22	ug/L	1		350.1	Total/NA
Chemical Oxygen Demand	7.0		5.0	2.4	mg/L	1		410.4	Total/NA
Total Organic Carbon	1.2		1.0	0.72	mg/L	1		415.1	Total/NA

Client Sample ID: PZ-104-SD — Lab Sample ID: 160-22238-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	2.7	J	5.0	0.38	ug/L	1		8260C	Total/NA
1,4-Dichlorobenzene	4.4	J	5.0	0.35	ug/L	1		8260C	Total/NA
Ethylbenzene	2.7	J	5.0	0.30	ug/L	1		8260C	Total/NA
Toluene	36		5.0	1.0	ug/L	1		8260C	Total/NA
Xylenes, Total	20		10	0.85	ug/L	1		8260C	Total/NA
Benzene - DL	250		10	0.50	ug/L	2		8260C	Total/NA
Chloride - DL	220		20	2.0	mg/L	100		300.0	Total/NA
Fluoride - DL	1.1	H	0.50	0.13	mg/L	5		300.0	Total/NA
Iodide - DL	0.86	J	2.0	0.20	mg/L	2		300.0	Total/NA
Sulfate - DL	10	H	2.5	0.25	mg/L	5		300.0	Total/NA
Iron	9900		100	30	ug/L	1		6010C	Total/NA
Arsenic	18		10	4.0	ug/L	1		6010C	Total/NA
Barium	590		50	15	ug/L	1		6010C	Total/NA
Boron	770		100	25	ug/L	1		6010C	Total/NA
CaHard	230000		5000	1500	ug/L	2		6010C	Total/NA
Calcium	94000		2000	600	ug/L	2		6010C	Total/NA
Chromium	9.5	J	10	3.0	ug/L	1		6010C	Total/NA
Lead	12		10	3.0	ug/L	1		6010C	Total/NA
Magnesium	60		1.0	0.30	mg/L	1		6010C	Total/NA
Manganese	130		15	4.0	ug/L	1		6010C	Total/NA
MgHard	250000		4100	1200	ug/L	1		6010C	Total/NA
Nickel	0.061		0.040	0.010	mg/L	1		6010C	Total/NA
Phosphorus	160	J	250	75	ug/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22238-1

Client Sample ID: PZ-104-SD (Continued)

Lab Sample ID: 160-22238-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Sodium	130000		2000	600	ug/L	2		6010C	Total/NA
Total Hardness	510000		6600	2000	ug/L	1		6010C	Total/NA
Zinc	17	J	20	6.0	ug/L	1		6010C	Total/NA
Total Dissolved Solids (TDS)	940		5.0	3.5	mg/L	1		160.1	Total/NA
Ammonia - DL	42000		2500	1100	ug/L	50		350.1	Total/NA
Chemical Oxygen Demand - DL	160		10	4.8	mg/L	2		410.4	Total/NA
Total Organic Carbon - DL	45		10	7.2	mg/L	10		415.1	Total/NA

Client Sample ID: PZ-104-SS

Lab Sample ID: 160-22238-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	170		5.0	0.25	ug/L	1		8260C	Total/NA
Chlorobenzene	2.7	J	5.0	0.38	ug/L	1		8260C	Total/NA
1,4-Dichlorobenzene	5.0		5.0	0.35	ug/L	1		8260C	Total/NA
Ethylbenzene	1.4	J	5.0	0.30	ug/L	1		8260C	Total/NA
Toluene	27		5.0	1.0	ug/L	1		8260C	Total/NA
Xylenes, Total	10		10	0.85	ug/L	1		8260C	Total/NA
Chloride - DL	2.6		1.0	0.10	mg/L	5		300.0	Total/NA
Fluoride - DL	0.79	H	0.50	0.13	mg/L	5		300.0	Total/NA
Sulfate - DL	22	H	2.5	0.25	mg/L	5		300.0	Total/NA
Iron	160		100	30	ug/L	1		6010C	Total/NA
Barium	110		50	15	ug/L	1		6010C	Total/NA
Boron	140		100	25	ug/L	1		6010C	Total/NA
CaHard	220000		2500	750	ug/L	1		6010C	Total/NA
Calcium	89000		1000	300	ug/L	1		6010C	Total/NA
Lead	7.9	J	10	3.0	ug/L	1		6010C	Total/NA
Magnesium	49		1.0	0.30	mg/L	1		6010C	Total/NA
Manganese	26		15	4.0	ug/L	1		6010C	Total/NA
MgHard	200000		4100	1200	ug/L	1		6010C	Total/NA
Sodium	16000		1000	300	ug/L	1		6010C	Total/NA
Total Hardness	420000		6600	2000	ug/L	1		6010C	Total/NA
Zinc	8.7	J	20	6.0	ug/L	1		6010C	Total/NA
Total Dissolved Solids (TDS)	460		5.0	3.5	mg/L	1		160.1	Total/NA
Ammonia	120		50	22	ug/L	1		350.1	Total/NA
Nitrate Nitrite as N	25	J	50	22	ug/L	1		353.1 Preserved	Total/NA
Chemical Oxygen Demand	23		5.0	2.4	mg/L	1		410.4	Total/NA
Total Organic Carbon	3.1		1.0	0.72	mg/L	1		415.1	Total/NA

Client Sample ID: PZ-116-SS

Lab Sample ID: 160-22238-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	12		5.0	0.25	ug/L	1		8260C	Total/NA
Chlorobenzene	0.98	J	5.0	0.38	ug/L	1		8260C	Total/NA
1,4-Dichlorobenzene	5.1		5.0	0.35	ug/L	1		8260C	Total/NA
Xylenes, Total	2.9	J	10	0.85	ug/L	1		8260C	Total/NA
Chloride - DL	3.1		1.0	0.10	mg/L	5		300.0	Total/NA
Fluoride - DL	2.5	H	0.50	0.13	mg/L	5		300.0	Total/NA
Sulfate - DL	30	H	2.5	0.25	mg/L	5		300.0	Total/NA
Iron	280		100	30	ug/L	1		6010C	Total/NA
Barium	90		50	15	ug/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica St. Louis

Client Sample ID: PZ-116-SS (Continued) — Lab Sample ID: 160-22238-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Boron	360		100	25	ug/L	1		6010C	Total/NA
CaHard	130000		2500	750	ug/L	1		6010C	Total/NA
Calcium	52000		1000	300	ug/L	1		6010C	Total/NA
Lead	9.0	J	10	3.0	ug/L	1		6010C	Total/NA
Magnesium	34		1.0	0.30	mg/L	1		6010C	Total/NA
Manganese	200		15	4.0	ug/L	1		6010C	Total/NA
MgHard	140000		4100	1200	ug/L	1		6010C	Total/NA
Phosphorus	170	J	250	75	ug/L	1		6010C	Total/NA
Sodium	39000		1000	300	ug/L	1		6010C	Total/NA
Total Hardness	270000		6600	2000	ug/L	1		6010C	Total/NA
Total Dissolved Solids (TDS)	340		5.0	3.5	mg/L	1		160.1	Total/NA
Ammonia	270		50	22	ug/L	1		350.1	Total/NA
Total Organic Carbon	1.7		1.0	0.72	mg/L	1		415.1	Total/NA

Client Sample ID: PZ-205-AS — Lab Sample ID: 160-22238-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	560	H	25	1.3	ug/L	5		8260C	Total/NA
Chlorobenzene	6.7		5.0	0.38	ug/L	1		8260C	Total/NA
1,4-Dichlorobenzene	21		5.0	0.35	ug/L	1		8260C	Total/NA
Ethylbenzene	18		5.0	0.30	ug/L	1		8260C	Total/NA
Toluene	75		5.0	1.0	ug/L	1		8260C	Total/NA
Xylenes, Total	50		10	0.85	ug/L	1		8260C	Total/NA
Chloride - DL	1600		100	10	mg/L	500		300.0	Total/NA
Fluoride - DL	0.14	J H	0.20	0.052	mg/L	2		300.0	Total/NA
Iodide - DL	2.8		2.0	0.20	mg/L	2		300.0	Total/NA
Sulfate - DL	2.4	H	1.0	0.10	mg/L	2		300.0	Total/NA
Iron	75000		200	60	ug/L	2		6010C	Total/NA
Arsenic	68		20	8.0	ug/L	2		6010C	Total/NA
Barium	5200		100	30	ug/L	2		6010C	Total/NA
Boron	2000		200	50	ug/L	2		6010C	Total/NA
CaHard	1400000		25000	7500	ug/L	10		6010C	Total/NA
Calcium	570000		10000	3000	ug/L	10		6010C	Total/NA
Chromium	19	J	20	6.0	ug/L	2		6010C	Total/NA
Lead	48		20	6.0	ug/L	2		6010C	Total/NA
Magnesium	170		2.0	0.60	mg/L	2		6010C	Total/NA
Manganese	1100		30	8.0	ug/L	2		6010C	Total/NA
MgHard	680000		8200	2500	ug/L	2		6010C	Total/NA
Nickel	0.052	J	0.080	0.020	mg/L	2		6010C	Total/NA
Phosphorus	1700		250	75	ug/L	1		6010C	Total/NA
Sodium	390000		5000	1500	ug/L	5		6010C	Total/NA
Total Hardness	2000000		13000	4000	ug/L	2		6010C	Total/NA
Zinc	44		40	12	ug/L	2		6010C	Total/NA
Total Dissolved Solids (TDS)	4700		50	35	mg/L	1		160.1	Total/NA
Nitrate Nitrite as N	29	J	50	22	ug/L	1		353.1 Preserved	Total/NA
Ammonia - DL	72000		10000	4500	ug/L	200		350.1	Total/NA
Chemical Oxygen Demand - DL	920		50	24	mg/L	10		410.4	Total/NA
Total Organic Carbon - DL	190		50	36	mg/L	50		415.1	Total/NA

Client Sample ID: PZ-107-SS — Lab Sample ID: 160-22238-7

This Detection Summary does not include radiochemical test results.

Client Sample ID: PZ-107-SS (Continued)

Lab Sample ID: 160-22238-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.5	J	5.0	0.25	ug/L	1		8260C	Total/NA
Chlorobenzene	0.47	J	5.0	0.38	ug/L	1		8260C	Total/NA
Chloride - DL	440		40	4.0	mg/L	200		300.0	Total/NA
Fluoride - DL	0.43	H	0.20	0.052	mg/L	2		300.0	Total/NA
Iodide - DL	1.0	J	2.0	0.20	mg/L	2		300.0	Total/NA
Sulfate - DL	38	H	1.0	0.10	mg/L	2		300.0	Total/NA
Iron	7600		100	30	ug/L	1		6010C	Total/NA
Arsenic	10		10	4.0	ug/L	1		6010C	Total/NA
Barium	890		50	15	ug/L	1		6010C	Total/NA
Boron	810		100	25	ug/L	1		6010C	Total/NA
CaHard	690000		12000	3700	ug/L	5		6010C	Total/NA
Calcium	280000		5000	1500	ug/L	5		6010C	Total/NA
Chromium	7.8	J	10	3.0	ug/L	1		6010C	Total/NA
Lead	14		10	3.0	ug/L	1		6010C	Total/NA
Magnesium	110		5.0	1.5	mg/L	5		6010C	Total/NA
Manganese	96		15	4.0	ug/L	1		6010C	Total/NA
MgHard	500000		4100	1200	ug/L	1		6010C	Total/NA
Nickel	0.051		0.040	0.010	mg/L	1		6010C	Total/NA
Phosphorus	220	J	250	75	ug/L	1		6010C	Total/NA
Sodium	150000		5000	1500	ug/L	5		6010C	Total/NA
Total Hardness	1100000		6600	2000	ug/L	1		6010C	Total/NA
Zinc	6.8	J	20	6.0	ug/L	1		6010C	Total/NA
Total Dissolved Solids (TDS)	1700		10	7.0	mg/L	1		160.1	Total/NA
Ammonia - DL	29000		1000	450	ug/L	20		350.1	Total/NA
Chemical Oxygen Demand - DL	200		10	4.8	mg/L	2		410.4	Total/NA
Total Organic Carbon - DL	43		10	7.2	mg/L	10		415.1	Total/NA

Client Sample ID: DUPI 050817

Lab Sample ID: 160-22238-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.8	J	5.0	0.25	ug/L	1		8260C	Total/NA
1,4-Dichlorobenzene	0.44	J	5.0	0.35	ug/L	1		8260C	Total/NA
Chloride - DL	45		10	1.0	mg/L	50		300.0	Total/NA
Fluoride - DL	1.8	H	0.50	0.13	mg/L	5		300.0	Total/NA
Sulfate - DL	23	H	2.5	0.25	mg/L	5		300.0	Total/NA
Iron	1100		100	30	ug/L	1		6010C	Total/NA
Barium	99		50	15	ug/L	1		6010C	Total/NA
Boron	120		100	25	ug/L	1		6010C	Total/NA
CaHard	210000		2500	750	ug/L	1		6010C	Total/NA
Calcium	83000		1000	300	ug/L	1		6010C	Total/NA
Lead	4.6	J	10	3.0	ug/L	1		6010C	Total/NA
Magnesium	38		1.0	0.30	mg/L	1		6010C	Total/NA
Manganese	14	J	15	4.0	ug/L	1		6010C	Total/NA
MgHard	160000		4100	1200	ug/L	1		6010C	Total/NA
Sodium	38000		1000	300	ug/L	1		6010C	Total/NA
Total Hardness	360000		6600	2000	ug/L	1		6010C	Total/NA
Total Dissolved Solids (TDS)	450		5.0	3.5	mg/L	1		160.1	Total/NA
Ammonia	250		50	22	ug/L	1		350.1	Total/NA
Total Organic Carbon	1.1		1.0	0.72	mg/L	1		415.1	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TRIPBLANK
Date Collected: 05/08/17 08:00
Date Received: 05/09/17 08:10

Lab Sample ID: 160-22238-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/15/17 00:20	1
Acrylonitrile	ND		50	1.7	ug/L			05/15/17 00:20	1
Benzene	ND		5.0	0.25	ug/L			05/15/17 00:20	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/15/17 00:20	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/15/17 00:20	1
Bromoform	ND		5.0	0.37	ug/L			05/15/17 00:20	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/15/17 00:20	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/15/17 00:20	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/15/17 00:20	1
Chloroethane	ND		10	0.38	ug/L			05/15/17 00:20	1
Chloroform	ND		5.0	0.15	ug/L			05/15/17 00:20	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/15/17 00:20	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/15/17 00:20	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/15/17 00:20	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/15/17 00:20	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/15/17 00:20	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/15/17 00:20	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/15/17 00:20	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/15/17 00:20	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/15/17 00:20	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/15/17 00:20	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/15/17 00:20	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/15/17 00:20	1
2-Hexanone	ND		20	0.59	ug/L			05/15/17 00:20	1
Methyl bromide	ND		10	0.40	ug/L			05/15/17 00:20	1
Methyl chloride	ND		10	0.55	ug/L			05/15/17 00:20	1
Methylene bromide	ND		5.0	0.41	ug/L			05/15/17 00:20	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/15/17 00:20	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/15/17 00:20	1
Methyl iodide	ND		5.0	1.5	ug/L			05/15/17 00:20	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/15/17 00:20	1
Styrene	ND		5.0	0.35	ug/L			05/15/17 00:20	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/15/17 00:20	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/15/17 00:20	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/15/17 00:20	1
Toluene	ND		5.0	1.0	ug/L			05/15/17 00:20	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/15/17 00:20	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/15/17 00:20	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/15/17 00:20	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/15/17 00:20	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/15/17 00:20	1
Trichloroethene	ND		5.0	0.29	ug/L			05/15/17 00:20	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/15/17 00:20	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/15/17 00:20	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/15/17 00:20	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/15/17 00:20	1
Xylenes, Total	ND		10	0.85	ug/L			05/15/17 00:20	1

Client Sample ID: TRIPBLANK

Lab Sample ID: 160-22238-1
Date Collected: 05/08/17 08:00
Matrix: Water
Date Received: 05/09/17 08:10

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*71 - 139*		*05/15/17 00:20*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 121*		*05/15/17 00:20*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*76 - 121*		*05/15/17 00:20*	*1*
Toluene-d8 (Surr)	*99*		*80 - 129*		*05/15/17 00:20*	*1*

Client Sample ID: PZ-104-KS

Lab Sample ID: 160-22238-2
Date Collected: 05/08/17 10:20
Matrix: Water
Date Received: 05/09/17 08:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/15/17 00:45	1
Acrylonitrile	ND		50	1.7	ug/L			05/15/17 00:45	1
Benzene	**2.7**	**J**	5.0	0.25	ug/L			05/15/17 00:45	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/15/17 00:45	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/15/17 00:45	1
Bromoform	ND		5.0	0.37	ug/L			05/15/17 00:45	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/15/17 00:45	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/15/17 00:45	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/15/17 00:45	1
Chloroethane	ND		10	0.38	ug/L			05/15/17 00:45	1
Chloroform	ND		5.0	0.15	ug/L			05/15/17 00:45	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/15/17 00:45	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/15/17 00:45	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/15/17 00:45	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/15/17 00:45	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/15/17 00:45	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/15/17 00:45	1
1,4-Dichlorobenzene	**0.39**	**J**	5.0	0.35	ug/L			05/15/17 00:45	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/15/17 00:45	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/15/17 00:45	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/15/17 00:45	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/15/17 00:45	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/15/17 00:45	1
2-Hexanone	ND		20	0.59	ug/L			05/15/17 00:45	1
Methyl bromide	ND		10	0.40	ug/L			05/15/17 00:45	1
Methyl chloride	ND		10	0.55	ug/L			05/15/17 00:45	1
Methylene bromide	ND		5.0	0.41	ug/L			05/15/17 00:45	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/15/17 00:45	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/15/17 00:45	1
Methyl iodide	ND		5.0	1.5	ug/L			05/15/17 00:45	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/15/17 00:45	1
Styrene	ND		5.0	0.35	ug/L			05/15/17 00:45	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/15/17 00:45	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/15/17 00:45	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/15/17 00:45	1
Toluene	ND		5.0	1.0	ug/L			05/15/17 00:45	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/15/17 00:45	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/15/17 00:45	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/15/17 00:45	1

Client Sample ID: PZ-104-KS

Date Collected: 05/08/17 10:20
Date Received: 05/09/17 08:10

Lab Sample ID: 160-22238-2

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/15/17 00:45	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/15/17 00:45	1
Trichloroethene	ND		5.0	0.29	ug/L			05/15/17 00:45	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/15/17 00:45	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/15/17 00:45	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/15/17 00:45	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/15/17 00:45	1
Xylenes, Total	ND		10	0.85	ug/L			05/15/17 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*94*		*71 - 139*		*05/15/17 00:45*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 121*		*05/15/17 00:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*76 - 121*		*05/15/17 00:45*	*1*
Toluene-d8 (Surr)	*95*		*80 - 129*		*05/15/17 00:45*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	ND		1.0	0.10	mg/L			05/09/17 18:06	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**41**		10	1.0	mg/L			05/10/17 04:51	50
Fluoride	**1.7**	**H**	0.50	0.13	mg/L			06/10/17 09:49	5
Sulfate	**23**	**H**	2.5	0.25	mg/L			06/10/17 09:49	5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	3.0	ug/L		05/10/17 12:10	05/16/17 03:19	1
Iron	**1100**		100	30	ug/L		05/10/17 12:10	05/16/17 03:19	1
Arsenic	ND		10	4.0	ug/L		05/10/17 12:10	05/16/17 03:19	1
Barium	**94**		50	15	ug/L		05/10/17 12:10	05/16/17 03:19	1
Beryllium	ND		5.0	1.5	ug/L		05/10/17 12:10	05/16/17 03:19	1
Boron	**120**		100	25	ug/L		05/10/17 12:10	05/16/17 03:19	1
Cadmium	ND		5.0	1.5	ug/L		05/10/17 12:10	05/16/17 03:19	1
CaHard	**210000**		2500	750	ug/L		05/10/17 12:10	05/16/17 03:19	1
Calcium	**85000**		1000	300	ug/L		05/10/17 12:10	05/16/17 03:19	1
Chromium	ND		10	3.0	ug/L		05/10/17 12:10	05/16/17 03:19	1
Cobalt	ND		50	15	ug/L		05/10/17 12:10	05/16/17 03:19	1
Copper	ND		25	7.0	ug/L		05/10/17 12:10	05/16/17 03:19	1
Lead	**4.5**	**J**	10	3.0	ug/L		05/10/17 12:10	05/16/17 03:19	1
Magnesium	**38**		1.0	0.30	mg/L		05/10/17 12:10	05/16/17 03:19	1
Manganese	**15**		15	4.0	ug/L		05/10/17 12:10	05/16/17 03:19	1
MgHard	**150000**		4100	1200	ug/L		05/10/17 12:10	05/16/17 03:19	1
Nickel	ND		0.040	0.010	mg/L		05/10/17 12:10	05/16/17 03:19	1
Phosphorus	ND		250	75	ug/L		05/10/17 12:10	05/16/17 03:19	1
Selenium	ND		15	8.0	ug/L		05/10/17 12:10	05/16/17 03:19	1
Silver	ND		10	3.0	ug/L		05/10/17 12:10	05/16/17 03:19	1
Sodium	**37000**		1000	300	ug/L		05/10/17 12:10	05/16/17 03:19	1
Thallium	ND	^	20	5.0	ug/L		05/10/17 12:10	05/16/17 03:19	1
Total Hardness	**370000**		6600	2000	ug/L		05/10/17 12:10	05/16/17 03:19	1

Client Sample ID: PZ-104-KS

Date Collected: 05/08/17 10:20
Date Received: 05/09/17 08:10

Lab Sample ID: 160-22238-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	ND		50	25	ug/L		05/10/17 12:10	05/16/17 03:19	1
Zinc	ND		20	6.0	ug/L		05/10/17 12:10	05/16/17 03:19	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		05/22/17 10:05	05/22/17 21:23	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**450**		5.0	3.5	mg/L			05/12/17 08:05	1
Ammonia	**250**	**F1**	50	22	ug/L			05/31/17 23:24	1
Nitrate Nitrite as N	ND	F1	50	22	ug/L			05/25/17 16:59	1
Chemical Oxygen Demand	**7.0**		5.0	2.4	mg/L		05/30/17 08:15	05/30/17 14:00	1
Total Organic Carbon	**1.2**		1.0	0.72	mg/L			05/23/17 00:06	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-4.05	U	146	146	500	261	pCi/L	05/26/17 09:09	05/30/17 15:29	1

Client Sample ID: PZ-104-SD

Date Collected: 05/08/17 12:03
Date Received: 05/09/17 08:10

Lab Sample ID: 160-22238-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/15/17 01:10	1
Acrylonitrile	ND		50	1.7	ug/L			05/15/17 01:10	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/15/17 01:10	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/15/17 01:10	1
Bromoform	ND		5.0	0.37	ug/L			05/15/17 01:10	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/15/17 01:10	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/15/17 01:10	1
Chlorobenzene	**2.7**	**J**	5.0	0.38	ug/L			05/15/17 01:10	1
Chloroethane	ND		10	0.38	ug/L			05/15/17 01:10	1
Chloroform	ND		5.0	0.15	ug/L			05/15/17 01:10	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/15/17 01:10	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/15/17 01:10	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/15/17 01:10	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/15/17 01:10	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/15/17 01:10	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/15/17 01:10	1
1,4-Dichlorobenzene	**4.4**	**J**	5.0	0.35	ug/L			05/15/17 01:10	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/15/17 01:10	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/15/17 01:10	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/15/17 01:10	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/15/17 01:10	1
Ethylbenzene	**2.7**	**J**	5.0	0.30	ug/L			05/15/17 01:10	1
2-Hexanone	ND		20	0.59	ug/L			05/15/17 01:10	1

Client Sample ID: PZ-104-SD

Date Collected: 05/08/17 12:03
Date Received: 05/09/17 08:10

Lab Sample ID: 160-22238-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl bromide	ND		10	0.40	ug/L			05/15/17 01:10	1
Methyl chloride	ND		10	0.55	ug/L			05/15/17 01:10	1
Methylene bromide	ND		5.0	0.41	ug/L			05/15/17 01:10	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/15/17 01:10	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/15/17 01:10	1
Methyl iodide	ND		5.0	1.5	ug/L			05/15/17 01:10	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/15/17 01:10	1
Styrene	ND		5.0	0.35	ug/L			05/15/17 01:10	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/15/17 01:10	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/15/17 01:10	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/15/17 01:10	1
Toluene	**36**		5.0	1.0	ug/L			05/15/17 01:10	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/15/17 01:10	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/15/17 01:10	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/15/17 01:10	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/15/17 01:10	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/15/17 01:10	1
Trichloroethene	ND		5.0	0.29	ug/L			05/15/17 01:10	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/15/17 01:10	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/15/17 01:10	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/15/17 01:10	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/15/17 01:10	1
Xylenes, Total	**20**		10	0.85	ug/L			05/15/17 01:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*71 - 139*		*05/15/17 01:10*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 121*		*05/15/17 01:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*76 - 121*		*05/15/17 01:10*	*1*
Toluene-d8 (Surr)	*98*		*80 - 129*		*05/15/17 01:10*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**250**		10	0.50	ug/L			05/16/17 02:02	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*71 - 139*		*05/16/17 02:02*	*2*
Dibromofluoromethane (Surr)	*101*		*80 - 121*		*05/16/17 02:02*	*2*
1,2-Dichloroethane-d4 (Surr)	*94*		*76 - 121*		*05/16/17 02:02*	*2*
Toluene-d8 (Surr)	*98*		*80 - 129*		*05/16/17 02:02*	*2*

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**220**		20	2.0	mg/L			05/10/17 05:44	100
Fluoride	**1.1**	**H**	0.50	0.13	mg/L			06/10/17 10:36	5
Iodide	**0.86**	**J**	2.0	0.20	mg/L			05/09/17 18:35	2
Sulfate	**10**	**H**	2.5	0.25	mg/L			06/10/17 10:36	5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	3.0	ug/L		05/10/17 12:10	05/16/17 03:23	1
Iron	**9900**		100	30	ug/L		05/10/17 12:10	05/16/17 03:23	1

Client Sample ID: PZ-104-SD

Date Collected: 05/08/17 12:03
Date Received: 05/09/17 08:10

Lab Sample ID: 160-22238-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	18		10	4.0	ug/L		05/10/17 12:10	05/16/17 03:23	1
Barium	590		50	15	ug/L		05/10/17 12:10	05/16/17 03:23	1
Beryllium	ND		5.0	1.5	ug/L		05/10/17 12:10	05/16/17 03:23	1
Boron	770		100	25	ug/L		05/10/17 12:10	05/16/17 03:23	1
Cadmium	ND		5.0	1.5	ug/L		05/10/17 12:10	05/16/17 03:23	1
CaHard	230000		5000	1500	ug/L		05/10/17 12:10	06/05/17 20:41	2
Calcium	94000		2000	600	ug/L		05/10/17 12:10	06/05/17 20:41	2
Chromium	9.5	J	10	3.0	ug/L		05/10/17 12:10	05/16/17 03:23	1
Cobalt	ND		50	15	ug/L		05/10/17 12:10	05/16/17 03:23	1
Copper	ND		25	7.0	ug/L		05/10/17 12:10	05/16/17 03:23	1
Lead	12		10	3.0	ug/L		05/10/17 12:10	05/16/17 03:23	1
Magnesium	60		1.0	0.30	mg/L		05/10/17 12:10	05/16/17 03:23	1
Manganese	130		15	4.0	ug/L		05/10/17 12:10	05/16/17 03:23	1
MgHard	250000		4100	1200	ug/L		05/10/17 12:10	05/16/17 03:23	1
Nickel	0.061		0.040	0.010	mg/L		05/10/17 12:10	05/16/17 03:23	1
Phosphorus	160	J	250	75	ug/L		05/10/17 12:10	05/16/17 03:23	1
Selenium	ND		15	8.0	ug/L		05/10/17 12:10	05/16/17 03:23	1
Silver	ND		10	3.0	ug/L		05/10/17 12:10	05/16/17 03:23	1
Sodium	130000		2000	600	ug/L		05/10/17 12:10	06/05/17 20:41	2
Thallium	ND	^	20	5.0	ug/L		05/10/17 12:10	05/16/17 03:23	1
Total Hardness	510000		6600	2000	ug/L		05/10/17 12:10	05/16/17 03:23	1
Vanadium	ND		50	25	ug/L		05/10/17 12:10	05/16/17 03:23	1
Zinc	17	J	20	6.0	ug/L		05/10/17 12:10	05/16/17 03:23	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		05/22/17 10:05	05/22/17 21:25	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	940		5.0	3.5	mg/L			05/12/17 08:05	1
Nitrate Nitrite as N	ND		50	22	ug/L			05/25/17 17:09	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	42000		2500	1100	ug/L			05/31/17 23:36	50
Chemical Oxygen Demand	160		10	4.8	mg/L		05/30/17 08:15	05/30/17 14:00	2
Total Organic Carbon	45		10	7.2	mg/L			05/23/17 00:18	10

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	1360		253	280	500	259	pCi/L	05/26/17 09:09	05/30/17 15:52	1

Client Sample ID: PZ-104-SS

Date Collected: 05/08/17 14:36
Date Received: 05/09/17 08:10

Lab Sample ID: 160-22238-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/15/17 01:35	1
Acrylonitrile	ND		50	1.7	ug/L			05/15/17 01:35	1
Benzene	**170**		5.0	0.25	ug/L			05/15/17 01:35	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/15/17 01:35	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/15/17 01:35	1
Bromoform	ND		5.0	0.37	ug/L			05/15/17 01:35	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/15/17 01:35	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/15/17 01:35	1
Chlorobenzene	**2.7**	**J**	5.0	0.38	ug/L			05/15/17 01:35	1
Chloroethane	ND		10	0.38	ug/L			05/15/17 01:35	1
Chloroform	ND		5.0	0.15	ug/L			05/15/17 01:35	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/15/17 01:35	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/15/17 01:35	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/15/17 01:35	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/15/17 01:35	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/15/17 01:35	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/15/17 01:35	1
1,4-Dichlorobenzene	**5.0**		5.0	0.35	ug/L			05/15/17 01:35	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/15/17 01:35	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/15/17 01:35	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/15/17 01:35	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/15/17 01:35	1
Ethylbenzene	**1.4**	**J**	5.0	0.30	ug/L			05/15/17 01:35	1
2-Hexanone	ND		20	0.59	ug/L			05/15/17 01:35	1
Methyl bromide	ND		10	0.40	ug/L			05/15/17 01:35	1
Methyl chloride	ND		10	0.55	ug/L			05/15/17 01:35	1
Methylene bromide	ND		5.0	0.41	ug/L			05/15/17 01:35	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/15/17 01:35	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/15/17 01:35	1
Methyl iodide	ND		5.0	1.5	ug/L			05/15/17 01:35	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/15/17 01:35	1
Styrene	ND		5.0	0.35	ug/L			05/15/17 01:35	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/15/17 01:35	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/15/17 01:35	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/15/17 01:35	1
Toluene	**27**		5.0	1.0	ug/L			05/15/17 01:35	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/15/17 01:35	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/15/17 01:35	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/15/17 01:35	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/15/17 01:35	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/15/17 01:35	1
Trichloroethene	ND		5.0	0.29	ug/L			05/15/17 01:35	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/15/17 01:35	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/15/17 01:35	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/15/17 01:35	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/15/17 01:35	1
Xylenes, Total	**10**		10	0.85	ug/L			05/15/17 01:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*71 - 139*		*05/15/17 01:35*	*1*

Client Sample ID: PZ-104-SS

Date Collected: 05/08/17 14:36
Date Received: 05/09/17 08:10

Lab Sample ID: 160-22238-4

Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*101*		*80 - 121*		*05/15/17 01:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*76 - 121*		*05/15/17 01:35*	*1*
Toluene-d8 (Surr)	*97*		*80 - 129*		*05/15/17 01:35*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	ND		1.0	0.10	mg/L			05/09/17 19:03	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2.6**		1.0	0.10	mg/L			05/10/17 06:10	5
Fluoride	**0.79**	**H**	0.50	0.13	mg/L			06/10/17 10:51	5
Sulfate	**22**	**H**	2.5	0.25	mg/L			06/10/17 10:51	5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	3.0	ug/L		05/10/17 12:10	05/16/17 03:28	1
Iron	**160**		100	30	ug/L		05/10/17 12:10	05/16/17 03:28	1
Arsenic	ND		10	4.0	ug/L		05/10/17 12:10	05/16/17 03:28	1
Barium	**110**		50	15	ug/L		05/10/17 12:10	05/16/17 03:28	1
Beryllium	ND		5.0	1.5	ug/L		05/10/17 12:10	05/16/17 03:28	1
Boron	**140**		100	25	ug/L		05/10/17 12:10	05/16/17 03:28	1
Cadmium	ND		5.0	1.5	ug/L		05/10/17 12:10	05/16/17 03:28	1
CaHard	**220000**		2500	750	ug/L		05/10/17 12:10	05/16/17 03:28	1
Calcium	**89000**		1000	300	ug/L		05/10/17 12:10	05/16/17 03:28	1
Chromium	ND		10	3.0	ug/L		05/10/17 12:10	05/16/17 03:28	1
Cobalt	ND		50	15	ug/L		05/10/17 12:10	05/16/17 03:28	1
Copper	ND		25	7.0	ug/L		05/10/17 12:10	05/16/17 03:28	1
Lead	**7.9**	**J**	10	3.0	ug/L		05/10/17 12:10	05/16/17 03:28	1
Magnesium	**49**		1.0	0.30	mg/L		05/10/17 12:10	05/16/17 03:28	1
Manganese	**26**		15	4.0	ug/L		05/10/17 12:10	05/16/17 03:28	1
MgHard	**200000**		4100	1200	ug/L		05/10/17 12:10	05/16/17 03:28	1
Nickel	ND		0.040	0.010	mg/L		05/10/17 12:10	05/16/17 03:28	1
Phosphorus	ND		250	75	ug/L		05/10/17 12:10	05/16/17 03:28	1
Selenium	ND		15	8.0	ug/L		05/10/17 12:10	05/16/17 03:28	1
Silver	ND		10	3.0	ug/L		05/10/17 12:10	05/16/17 03:28	1
Sodium	**16000**		1000	300	ug/L		05/10/17 12:10	05/16/17 03:28	1
Thallium	ND	^	20	5.0	ug/L		05/10/17 12:10	05/16/17 03:28	1
Total Hardness	**420000**		6600	2000	ug/L		05/10/17 12:10	05/16/17 03:28	1
Vanadium	ND		50	25	ug/L		05/10/17 12:10	05/16/17 03:28	1
Zinc	**8.7**	**J**	20	6.0	ug/L		05/10/17 12:10	05/16/17 03:28	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		05/22/17 10:05	05/22/17 21:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**460**		5.0	3.5	mg/L			05/12/17 08:05	1
Ammonia	**120**		50	22	ug/L			05/31/17 23:38	1

Client Sample ID: PZ-104-SS

Date Collected: 05/08/17 14:36
Date Received: 05/09/17 08:10

Lab Sample ID: 160-22238-4
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	25	J	50	22	ug/L			05/25/17 17:12	1
Chemical Oxygen Demand	23		5.0	2.4	mg/L		05/30/17 08:15	05/30/17 14:00	1
Total Organic Carbon	3.1		1.0	0.72	mg/L			05/23/17 00:29	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-48.6	U	143	143	500	264	pCi/L	05/26/17 09:09	05/30/17 16:14	1

Client Sample ID: PZ-116-SS

Date Collected: 05/08/17 16:11
Date Received: 05/09/17 08:10

Lab Sample ID: 160-22238-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/15/17 02:00	1
Acrylonitrile	ND		50	1.7	ug/L			05/15/17 02:00	1
Benzene	12		5.0	0.25	ug/L			05/15/17 02:00	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/15/17 02:00	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/15/17 02:00	1
Bromoform	ND		5.0	0.37	ug/L			05/15/17 02:00	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/15/17 02:00	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/15/17 02:00	1
Chlorobenzene	0.98	J	5.0	0.38	ug/L			05/15/17 02:00	1
Chloroethane	ND		10	0.38	ug/L			05/15/17 02:00	1
Chloroform	ND		5.0	0.15	ug/L			05/15/17 02:00	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/15/17 02:00	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/15/17 02:00	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/15/17 02:00	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/15/17 02:00	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/15/17 02:00	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/15/17 02:00	1
1,4-Dichlorobenzene	5.1		5.0	0.35	ug/L			05/15/17 02:00	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/15/17 02:00	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/15/17 02:00	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/15/17 02:00	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/15/17 02:00	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/15/17 02:00	1
2-Hexanone	ND		20	0.59	ug/L			05/15/17 02:00	1
Methyl bromide	ND		10	0.40	ug/L			05/15/17 02:00	1
Methyl chloride	ND		10	0.55	ug/L			05/15/17 02:00	1
Methylene bromide	ND		5.0	0.41	ug/L			05/15/17 02:00	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/15/17 02:00	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/15/17 02:00	1
Methyl iodide	ND		5.0	1.5	ug/L			05/15/17 02:00	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/15/17 02:00	1
Styrene	ND		5.0	0.35	ug/L			05/15/17 02:00	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/15/17 02:00	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/15/17 02:00	1

Client Sample ID: PZ-116-SS
Date Collected: 05/08/17 16:11
Date Received: 05/09/17 08:10

Lab Sample ID: 160-22238-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		5.0	0.28	ug/L			05/15/17 02:00	1
Toluene	ND		5.0	1.0	ug/L			05/15/17 02:00	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/15/17 02:00	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/15/17 02:00	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/15/17 02:00	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/15/17 02:00	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/15/17 02:00	1
Trichloroethene	ND		5.0	0.29	ug/L			05/15/17 02:00	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/15/17 02:00	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/15/17 02:00	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/15/17 02:00	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/15/17 02:00	1
Xylenes, Total	**2.9**	**J**	10	0.85	ug/L			05/15/17 02:00	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*71 - 139*		*05/15/17 02:00*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 121*		*05/15/17 02:00*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*76 - 121*		*05/15/17 02:00*	*1*
Toluene-d8 (Surr)	*95*		*80 - 129*		*05/15/17 02:00*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	ND		1.0	0.10	mg/L			05/09/17 20:01	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.1**		1.0	0.10	mg/L			05/10/17 07:56	5
Fluoride	**2.5**	**H**	0.50	0.13	mg/L			06/10/17 11:07	5
Sulfate	**30**	**H**	2.5	0.25	mg/L			06/10/17 11:07	5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	3.0	ug/L		05/10/17 12:10	05/16/17 03:33	1
Iron	**280**		100	30	ug/L		05/10/17 12:10	05/16/17 03:33	1
Arsenic	ND		10	4.0	ug/L		05/10/17 12:10	05/16/17 03:33	1
Barium	**90**		50	15	ug/L		05/10/17 12:10	05/16/17 03:33	1
Beryllium	ND		5.0	1.5	ug/L		05/10/17 12:10	05/16/17 03:33	1
Boron	**360**		100	25	ug/L		05/10/17 12:10	05/16/17 03:33	1
Cadmium	ND		5.0	1.5	ug/L		05/10/17 12:10	05/16/17 03:33	1
CaHard	**130000**		2500	750	ug/L		05/10/17 12:10	05/16/17 03:33	1
Calcium	**52000**		1000	300	ug/L		05/10/17 12:10	05/16/17 03:33	1
Chromium	ND		10	3.0	ug/L		05/10/17 12:10	05/16/17 03:33	1
Cobalt	ND		50	15	ug/L		05/10/17 12:10	05/16/17 03:33	1
Copper	ND		25	7.0	ug/L		05/10/17 12:10	05/16/17 03:33	1
Lead	**9.0**	**J**	10	3.0	ug/L		05/10/17 12:10	05/16/17 03:33	1
Magnesium	**34**		1.0	0.30	mg/L		05/10/17 12:10	05/16/17 03:33	1
Manganese	**200**		15	4.0	ug/L		05/10/17 12:10	05/16/17 03:33	1
MgHard	**140000**		4100	1200	ug/L		05/10/17 12:10	05/16/17 03:33	1
Nickel	ND		0.040	0.010	mg/L		05/10/17 12:10	05/16/17 03:33	1
Phosphorus	**170**	**J**	250	75	ug/L		05/10/17 12:10	05/16/17 03:33	1

Client Sample ID: PZ-116-SS

Date Collected: 05/08/17 16:11
Date Received: 05/09/17 08:10

Lab Sample ID: 160-22238-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		15	8.0	ug/L		05/10/17 12:10	05/16/17 03:33	1
Silver	ND		10	3.0	ug/L		05/10/17 12:10	05/16/17 03:33	1
Sodium	**39000**		1000	300	ug/L		05/10/17 12:10	05/16/17 03:33	1
Thallium	ND	^	20	5.0	ug/L		05/10/17 12:10	05/16/17 03:33	1
Total Hardness	**270000**		6600	2000	ug/L		05/10/17 12:10	05/16/17 03:33	1
Vanadium	ND		50	25	ug/L		05/10/17 12:10	05/16/17 03:33	1
Zinc	ND		20	6.0	ug/L		05/10/17 12:10	05/16/17 03:33	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		05/22/17 10:05	05/22/17 21:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**340**		5.0	3.5	mg/L			05/12/17 08:05	1
Ammonia	**270**		50	22	ug/L			05/31/17 23:41	1
Nitrate Nitrite as N	ND		50	22	ug/L			05/25/17 17:15	1
Chemical Oxygen Demand	ND		5.0	2.4	mg/L		05/30/17 08:15	05/30/17 14:00	1
Total Organic Carbon	**1.7**		1.0	0.72	mg/L			05/23/17 00:41	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-93.2	U	132	132	500	250	pCi/L	05/26/17 09:09	05/30/17 16:37	1

Client Sample ID: PZ-205-AS

Date Collected: 05/08/17 17:24
Date Received: 05/09/17 08:10

Lab Sample ID: 160-22238-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/16/17 02:26	1
Acrylonitrile	ND		50	1.7	ug/L			05/16/17 02:26	1
Benzene	**560**	**H**	25	1.3	ug/L			05/17/17 21:28	5
Bromochloromethane	ND		5.0	0.55	ug/L			05/16/17 02:26	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/16/17 02:26	1
Bromoform	ND		5.0	0.37	ug/L			05/16/17 02:26	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/16/17 02:26	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/16/17 02:26	1
Chlorobenzene	**6.7**		5.0	0.38	ug/L			05/16/17 02:26	1
Chloroethane	ND		10	0.38	ug/L			05/16/17 02:26	1
Chloroform	ND		5.0	0.15	ug/L			05/16/17 02:26	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/16/17 02:26	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/16/17 02:26	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/16/17 02:26	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/16/17 02:26	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/16/17 02:26	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/16/17 02:26	1
1,4-Dichlorobenzene	**21**		5.0	0.35	ug/L			05/16/17 02:26	1

Client Sample ID: PZ-205-AS
Date Collected: 05/08/17 17:24
Date Received: 05/09/17 08:10

Lab Sample ID: 160-22238-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/16/17 02:26	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/16/17 02:26	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/16/17 02:26	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/16/17 02:26	1
Ethylbenzene	**18**		5.0	0.30	ug/L			05/16/17 02:26	1
2-Hexanone	ND		20	0.59	ug/L			05/16/17 02:26	1
Methyl bromide	ND		10	0.40	ug/L			05/16/17 02:26	1
Methyl chloride	ND		10	0.55	ug/L			05/16/17 02:26	1
Methylene bromide	ND		5.0	0.41	ug/L			05/16/17 02:26	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/16/17 02:26	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/16/17 02:26	1
Methyl iodide	ND		5.0	1.5	ug/L			05/16/17 02:26	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/16/17 02:26	1
Styrene	ND		5.0	0.35	ug/L			05/16/17 02:26	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/16/17 02:26	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/16/17 02:26	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/16/17 02:26	1
Toluene	**75**		5.0	1.0	ug/L			05/16/17 02:26	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/16/17 02:26	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/16/17 02:26	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/16/17 02:26	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/16/17 02:26	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/16/17 02:26	1
Trichloroethene	ND		5.0	0.29	ug/L			05/16/17 02:26	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/16/17 02:26	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/16/17 02:26	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/16/17 02:26	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/16/17 02:26	1
Xylenes, Total	**50**		10	0.85	ug/L			05/16/17 02:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*106*		*71 - 139*		*05/16/17 02:26*	*1*
4-Bromofluorobenzene (Surr)	*106*		*71 - 139*		*05/17/17 21:28*	*5*
Dibromofluoromethane (Surr)	*93*		*80 - 121*		*05/16/17 02:26*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 121*		*05/17/17 21:28*	*5*
1,2-Dichloroethane-d4 (Surr)	*99*		*76 - 121*		*05/16/17 02:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*76 - 121*		*05/17/17 21:28*	*5*
Toluene-d8 (Surr)	*99*		*80 - 129*		*05/16/17 02:26*	*1*
Toluene-d8 (Surr)	*101*		*80 - 129*		*05/17/17 21:28*	*5*

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**1600**		100	10	mg/L			05/10/17 14:02	500
Fluoride	**0.14**	**J H**	0.20	0.052	mg/L			06/10/17 11:22	2
Iodide	**2.8**		2.0	0.20	mg/L			05/09/17 20:30	2
Sulfate	**2.4**	**H**	1.0	0.10	mg/L			06/10/17 11:22	2

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		20	6.0	ug/L		05/10/17 12:10	05/16/17 03:52	2

Client Sample ID: PZ-205-AS
Date Collected: 05/08/17 17:24
Date Received: 05/09/17 08:10

Lab Sample ID: 160-22238-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	75000		200	60	ug/L		05/10/17 12:10	05/16/17 03:52	2
Arsenic	68		20	8.0	ug/L		05/10/17 12:10	05/16/17 03:52	2
Barium	5200		100	30	ug/L		05/10/17 12:10	05/16/17 03:52	2
Beryllium	ND		10	3.0	ug/L		05/10/17 12:10	05/16/17 03:52	2
Boron	2000		200	50	ug/L		05/10/17 12:10	05/16/17 03:52	2
Cadmium	ND		10	3.0	ug/L		05/10/17 12:10	05/16/17 03:52	2
CaHard	1400000		25000	7500	ug/L		05/10/17 12:10	06/07/17 11:20	10
Calcium	570000		10000	3000	ug/L		05/10/17 12:10	06/07/17 11:20	10
Chromium	19	J	20	6.0	ug/L		05/10/17 12:10	05/16/17 03:52	2
Cobalt	ND		100	30	ug/L		05/10/17 12:10	05/16/17 03:52	2
Copper	ND		50	14	ug/L		05/10/17 12:10	05/16/17 03:52	2
Lead	48		20	6.0	ug/L		05/10/17 12:10	05/16/17 03:52	2
Magnesium	170		2.0	0.60	mg/L		05/10/17 12:10	05/16/17 03:52	2
Manganese	1100		30	8.0	ug/L		05/10/17 12:10	05/16/17 03:52	2
MgHard	680000		8200	2500	ug/L		05/10/17 12:10	05/16/17 03:52	2
Nickel	0.052	J	0.080	0.020	mg/L		05/10/17 12:10	05/16/17 03:52	2
Phosphorus	1700		250	75	ug/L		05/10/17 12:10	06/05/17 20:55	1
Selenium	ND		30	16	ug/L		05/10/17 12:10	05/16/17 03:52	2
Silver	ND		20	6.0	ug/L		05/10/17 12:10	05/16/17 03:52	2
Sodium	390000		5000	1500	ug/L		05/10/17 12:10	06/05/17 20:46	5
Thallium	ND	^	40	10	ug/L		05/10/17 12:10	05/16/17 03:52	2
Total Hardness	2000000		13000	4000	ug/L		05/10/17 12:10	05/16/17 03:52	2
Vanadium	ND		100	50	ug/L		05/10/17 12:10	05/16/17 03:52	2
Zinc	44		40	12	ug/L		05/10/17 12:10	05/16/17 03:52	2

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		05/22/17 10:05	05/22/17 21:31	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	4700		50	35	mg/L			05/12/17 08:05	1
Nitrate Nitrite as N	29	J	50	22	ug/L			05/25/17 17:18	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	72000		10000	4500	ug/L			05/31/17 23:43	200
Chemical Oxygen Demand	920		50	24	mg/L		05/30/17 08:15	05/30/17 14:00	10
Total Organic Carbon	190		50	36	mg/L			05/23/17 01:25	50

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	34100		1040	3180	500	261	pCi/L	05/26/17 09:09	05/30/17 17:00	1

Client Sample ID: PZ-107-SS

Date Collected: 05/08/17 18:30
Date Received: 05/09/17 08:10

Lab Sample ID: 160-22238-7

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/16/17 02:51	1
Acrylonitrile	ND		50	1.7	ug/L			05/16/17 02:51	1
Benzene	**1.5**	**J**	5.0	0.25	ug/L			05/16/17 02:51	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/16/17 02:51	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/16/17 02:51	1
Bromoform	ND		5.0	0.37	ug/L			05/16/17 02:51	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/16/17 02:51	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/16/17 02:51	1
Chlorobenzene	**0.47**	**J**	5.0	0.38	ug/L			05/16/17 02:51	1
Chloroethane	ND		10	0.38	ug/L			05/16/17 02:51	1
Chloroform	ND		5.0	0.15	ug/L			05/16/17 02:51	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/16/17 02:51	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/16/17 02:51	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/16/17 02:51	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/16/17 02:51	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/16/17 02:51	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/16/17 02:51	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/16/17 02:51	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/16/17 02:51	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/16/17 02:51	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/16/17 02:51	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/16/17 02:51	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/16/17 02:51	1
2-Hexanone	ND		20	0.59	ug/L			05/16/17 02:51	1
Methyl bromide	ND		10	0.40	ug/L			05/16/17 02:51	1
Methyl chloride	ND		10	0.55	ug/L			05/16/17 02:51	1
Methylene bromide	ND		5.0	0.41	ug/L			05/16/17 02:51	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/16/17 02:51	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/16/17 02:51	1
Methyl iodide	ND		5.0	1.5	ug/L			05/16/17 02:51	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/16/17 02:51	1
Styrene	ND		5.0	0.35	ug/L			05/16/17 02:51	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/16/17 02:51	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/16/17 02:51	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/16/17 02:51	1
Toluene	ND		5.0	1.0	ug/L			05/16/17 02:51	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/16/17 02:51	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/16/17 02:51	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/16/17 02:51	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/16/17 02:51	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/16/17 02:51	1
Trichloroethene	ND		5.0	0.29	ug/L			05/16/17 02:51	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/16/17 02:51	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/16/17 02:51	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/16/17 02:51	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/16/17 02:51	1
Xylenes, Total	ND		10	0.85	ug/L			05/16/17 02:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*71 - 139*		*05/16/17 02:51*	*1*

Client Sample ID: PZ-107-SS

Date Collected: 05/08/17 18:30
Date Received: 05/09/17 08:10

Lab Sample ID: 160-22238-7

Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*100*		*80 - 121*		*05/16/17 02:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*76 - 121*		*05/16/17 02:51*	*1*
Toluene-d8 (Surr)	*97*		*80 - 129*		*05/16/17 02:51*	*1*

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**440**		40	4.0	mg/L			05/10/17 10:42	200
Fluoride	**0.43**	**H**	0.20	0.052	mg/L			06/10/17 11:37	2
Iodide	**1.0**	**J**	2.0	0.20	mg/L			05/09/17 21:13	2
Sulfate	**38**	**H**	1.0	0.10	mg/L			06/10/17 11:37	2

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	3.0	ug/L		05/10/17 12:10	05/16/17 03:56	1
Iron	**7600**		100	30	ug/L		05/10/17 12:10	05/16/17 03:56	1
Arsenic	**10**		10	4.0	ug/L		05/10/17 12:10	05/16/17 03:56	1
Barium	**890**		50	15	ug/L		05/10/17 12:10	05/16/17 03:56	1
Beryllium	ND		5.0	1.5	ug/L		05/10/17 12:10	05/16/17 03:56	1
Boron	**810**		100	25	ug/L		05/10/17 12:10	05/16/17 03:56	1
Cadmium	ND		5.0	1.5	ug/L		05/10/17 12:10	05/16/17 03:56	1
CaHard	**690000**		12000	3700	ug/L		05/10/17 12:10	06/05/17 20:50	5
Calcium	**280000**		5000	1500	ug/L		05/10/17 12:10	06/05/17 20:50	5
Chromium	**7.8**	**J**	10	3.0	ug/L		05/10/17 12:10	05/16/17 03:56	1
Cobalt	ND		50	15	ug/L		05/10/17 12:10	05/16/17 03:56	1
Copper	ND		25	7.0	ug/L		05/10/17 12:10	05/16/17 03:56	1
Lead	**14**		10	3.0	ug/L		05/10/17 12:10	05/16/17 03:56	1
Magnesium	**110**		5.0	1.5	mg/L		05/10/17 12:10	06/05/17 20:50	5
Manganese	**96**		15	4.0	ug/L		05/10/17 12:10	05/16/17 03:56	1
MgHard	**500000**		4100	1200	ug/L		05/10/17 12:10	05/16/17 03:56	1
Nickel	**0.051**		0.040	0.010	mg/L		05/10/17 12:10	05/16/17 03:56	1
Phosphorus	**220**	**J**	250	75	ug/L		05/10/17 12:10	06/05/17 21:00	1
Selenium	ND		15	8.0	ug/L		05/10/17 12:10	05/16/17 03:56	1
Silver	ND		10	3.0	ug/L		05/10/17 12:10	05/16/17 03:56	1
Sodium	**150000**		5000	1500	ug/L		05/10/17 12:10	06/05/17 20:50	5
Thallium	ND	^	20	5.0	ug/L		05/10/17 12:10	05/16/17 03:56	1
Total Hardness	**1100000**		6600	2000	ug/L		05/10/17 12:10	05/16/17 03:56	1
Vanadium	ND		50	25	ug/L		05/10/17 12:10	05/16/17 03:56	1
Zinc	**6.8**	**J**	20	6.0	ug/L		05/10/17 12:10	05/16/17 03:56	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		05/22/17 10:05	05/22/17 21:33	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**1700**		10	7.0	mg/L			05/12/17 08:05	1
Nitrate Nitrite as N	ND		50	22	ug/L			05/25/17 17:21	1

Client Sample ID: PZ-107-SS

Lab Sample ID: 160-22238-7
Date Collected: 05/08/17 18:30
Matrix: Water
Date Received: 05/09/17 08:10

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**29000**		1000	450	ug/L			05/31/17 23:46	20
Chemical Oxygen Demand	**200**		10	4.8	mg/L		05/30/17 08:15	05/30/17 14:00	2
Total Organic Carbon	**43**		10	7.2	mg/L			05/23/17 01:36	10

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	**1690**		273	311	500	261	pCi/L	05/26/17 09:09	05/30/17 17:22	1

Client Sample ID: DUPI 050817

Lab Sample ID: 160-22238-8
Date Collected: 05/08/17 00:00
Matrix: Water
Date Received: 05/09/17 08:10

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/16/17 03:15	1
Acrylonitrile	ND		50	1.7	ug/L			05/16/17 03:15	1
Benzene	**2.8**	**J**	5.0	0.25	ug/L			05/16/17 03:15	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/16/17 03:15	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/16/17 03:15	1
Bromoform	ND		5.0	0.37	ug/L			05/16/17 03:15	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/16/17 03:15	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/16/17 03:15	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/16/17 03:15	1
Chloroethane	ND		10	0.38	ug/L			05/16/17 03:15	1
Chloroform	ND		5.0	0.15	ug/L			05/16/17 03:15	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/16/17 03:15	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/16/17 03:15	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/16/17 03:15	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/16/17 03:15	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/16/17 03:15	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/16/17 03:15	1
1,4-Dichlorobenzene	**0.44**	**J**	5.0	0.35	ug/L			05/16/17 03:15	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/16/17 03:15	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/16/17 03:15	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/16/17 03:15	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/16/17 03:15	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/16/17 03:15	1
2-Hexanone	ND		20	0.59	ug/L			05/16/17 03:15	1
Methyl bromide	ND		10	0.40	ug/L			05/16/17 03:15	1
Methyl chloride	ND		10	0.55	ug/L			05/16/17 03:15	1
Methylene bromide	ND		5.0	0.41	ug/L			05/16/17 03:15	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/16/17 03:15	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/16/17 03:15	1
Methyl iodide	ND		5.0	1.5	ug/L			05/16/17 03:15	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/16/17 03:15	1
Styrene	ND		5.0	0.35	ug/L			05/16/17 03:15	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/16/17 03:15	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/16/17 03:15	1

Client Sample ID: DUPI 050817

Date Collected: 05/08/17 00:00
Date Received: 05/09/17 08:10

Lab Sample ID: 160-22238-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		5.0	0.28	ug/L			05/16/17 03:15	1
Toluene	ND		5.0	1.0	ug/L			05/16/17 03:15	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/16/17 03:15	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/16/17 03:15	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/16/17 03:15	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/16/17 03:15	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/16/17 03:15	1
Trichloroethene	ND		5.0	0.29	ug/L			05/16/17 03:15	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/16/17 03:15	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/16/17 03:15	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/16/17 03:15	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/16/17 03:15	1
Xylenes, Total	ND		10	0.85	ug/L			05/16/17 03:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*71 - 139*		*05/16/17 03:15*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 121*		*05/16/17 03:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*76 - 121*		*05/16/17 03:15*	*1*
Toluene-d8 (Surr)	*98*		*80 - 129*		*05/16/17 03:15*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	ND		1.0	0.10	mg/L			05/09/17 21:56	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**45**		10	1.0	mg/L			05/10/17 11:50	50
Fluoride	**1.8**	**H**	0.50	0.13	mg/L			06/10/17 12:08	5
Sulfate	**23**	**H**	2.5	0.25	mg/L			06/10/17 12:08	5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	3.0	ug/L		05/10/17 12:10	05/16/17 04:01	1
Iron	**1100**		100	30	ug/L		05/10/17 12:10	05/16/17 04:01	1
Arsenic	ND		10	4.0	ug/L		05/10/17 12:10	05/16/17 04:01	1
Barium	**99**		50	15	ug/L		05/10/17 12:10	05/16/17 04:01	1
Beryllium	ND		5.0	1.5	ug/L		05/10/17 12:10	05/16/17 04:01	1
Boron	**120**		100	25	ug/L		05/10/17 12:10	05/16/17 04:01	1
Cadmium	ND		5.0	1.5	ug/L		05/10/17 12:10	05/16/17 04:01	1
CaHard	**210000**		2500	750	ug/L		05/10/17 12:10	05/16/17 04:01	1
Calcium	**83000**		1000	300	ug/L		05/10/17 12:10	05/16/17 04:01	1
Chromium	ND		10	3.0	ug/L		05/10/17 12:10	05/16/17 04:01	1
Cobalt	ND		50	15	ug/L		05/10/17 12:10	05/16/17 04:01	1
Copper	ND		25	7.0	ug/L		05/10/17 12:10	05/16/17 04:01	1
Lead	**4.6**	**J**	10	3.0	ug/L		05/10/17 12:10	05/16/17 04:01	1
Magnesium	**38**		1.0	0.30	mg/L		05/10/17 12:10	05/16/17 04:01	1
Manganese	**14**	**J**	15	4.0	ug/L		05/10/17 12:10	05/16/17 04:01	1
MgHard	**160000**		4100	1200	ug/L		05/10/17 12:10	05/16/17 04:01	1
Nickel	ND		0.040	0.010	mg/L		05/10/17 12:10	05/16/17 04:01	1
Phosphorus	ND		250	75	ug/L		05/10/17 12:10	06/05/17 21:04	1

Client Sample ID: DUPI 050817
Date Collected: 05/08/17 00:00
Date Received: 05/09/17 08:10

Lab Sample ID: 160-22238-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		15	8.0	ug/L		05/10/17 12:10	05/16/17 04:01	1
Silver	ND		10	3.0	ug/L		05/10/17 12:10	05/16/17 04:01	1
Sodium	**38000**		1000	300	ug/L		05/10/17 12:10	05/16/17 04:01	1
Thallium	ND	^	20	5.0	ug/L		05/10/17 12:10	05/16/17 04:01	1
Total Hardness	**360000**		6600	2000	ug/L		05/10/17 12:10	05/16/17 04:01	1
Vanadium	ND		50	25	ug/L		05/10/17 12:10	05/16/17 04:01	1
Zinc	ND		20	6.0	ug/L		05/10/17 12:10	05/16/17 04:01	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		05/22/17 10:05	05/22/17 21:35	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**450**		5.0	3.5	mg/L			05/12/17 08:05	1
Ammonia	**250**		50	22	ug/L			05/31/17 23:48	1
Nitrate Nitrite as N	ND		50	22	ug/L			05/25/17 17:24	1
Chemical Oxygen Demand	ND		5.0	2.4	mg/L		05/30/17 08:18	05/30/17 14:00	1
Total Organic Carbon	**1.1**		1.0	0.72	mg/L			05/23/17 01:48	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	33.8	U	148	148	500	262	pCi/L	06/01/17 12:29	06/02/17 00:59	1

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22238-1

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

Lab Sample ID: MB 160-308482/7
Matrix: Water
Analysis Batch: 308482

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/14/17 17:41	1
Acrylonitrile	ND		50	1.7	ug/L			05/14/17 17:41	1
Benzene	ND		5.0	0.25	ug/L			05/14/17 17:41	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/14/17 17:41	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/14/17 17:41	1
Bromoform	ND		5.0	0.37	ug/L			05/14/17 17:41	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/14/17 17:41	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/14/17 17:41	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/14/17 17:41	1
Chloroethane	ND		10	0.38	ug/L			05/14/17 17:41	1
Chloroform	ND		5.0	0.15	ug/L			05/14/17 17:41	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/14/17 17:41	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/14/17 17:41	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/14/17 17:41	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/14/17 17:41	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/14/17 17:41	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/14/17 17:41	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/14/17 17:41	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/14/17 17:41	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/14/17 17:41	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/14/17 17:41	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/14/17 17:41	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/14/17 17:41	1
2-Hexanone	ND		20	0.59	ug/L			05/14/17 17:41	1
Methyl bromide	ND		10	0.40	ug/L			05/14/17 17:41	1
Methyl chloride	ND		10	0.55	ug/L			05/14/17 17:41	1
Methylene bromide	ND		5.0	0.41	ug/L			05/14/17 17:41	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/14/17 17:41	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/14/17 17:41	1
Methyl iodide	ND		5.0	1.5	ug/L			05/14/17 17:41	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/14/17 17:41	1
Styrene	ND		5.0	0.35	ug/L			05/14/17 17:41	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/14/17 17:41	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/14/17 17:41	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/14/17 17:41	1
Toluene	ND		5.0	1.0	ug/L			05/14/17 17:41	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/14/17 17:41	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/14/17 17:41	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/14/17 17:41	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/14/17 17:41	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/14/17 17:41	1
Trichloroethene	ND		5.0	0.29	ug/L			05/14/17 17:41	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/14/17 17:41	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/14/17 17:41	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/14/17 17:41	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/14/17 17:41	1
Xylenes, Total	ND		10	0.85	ug/L			05/14/17 17:41	1

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

Lab Sample ID: MB 160-308482/7
Matrix: Water
Analysis Batch: 308482

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		71 - 139		05/14/17 17:41	1
Dibromofluoromethane (Surr)	96		80 - 121		05/14/17 17:41	1
1,2-Dichloroethane-d4 (Surr)	93		76 - 121		05/14/17 17:41	1
Toluene-d8 (Surr)	97		80 - 129		05/14/17 17:41	1

Lab Sample ID: LCS 160-308482/4
Matrix: Water
Analysis Batch: 308482

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	50.0	49.1		ug/L		98	63 - 131
Acrylonitrile	500	506		ug/L		101	81 - 117
Benzene	50.0	43.7		ug/L		87	80 - 120
Bromochloromethane	50.0	48.7		ug/L		97	80 - 120
Bromodichloromethane	50.0	49.3		ug/L		99	80 - 120
Bromoform	50.0	50.8		ug/L		102	80 - 120
Carbon disulfide	50.0	50.5		ug/L		101	79 - 126
Carbon tetrachloride	50.0	48.2		ug/L		96	73 - 123
Chlorobenzene	50.0	46.0		ug/L		92	80 - 120
Chloroethane	50.0	47.7		ug/L		95	52 - 140
Chloroform	50.0	47.0		ug/L		94	80 - 120
cis-1,2-Dichloroethene	50.0	51.1		ug/L		102	80 - 120
cis-1,3-Dichloropropene	50.0	53.9		ug/L		108	80 - 122
Dibromochloromethane	50.0	48.5		ug/L		97	80 - 120
1,2-Dibromo-3-Chloropropane	50.0	48.8		ug/L		98	77 - 125
1,2-Dibromoethane (EDB)	50.0	49.2		ug/L		98	80 - 120
1,2-Dichlorobenzene	50.0	46.4		ug/L		93	80 - 120
1,4-Dichlorobenzene	50.0	45.1		ug/L		90	80 - 120
1,1-Dichloroethane	50.0	46.8		ug/L		94	80 - 120
1,2-Dichloroethane	50.0	46.5		ug/L		93	69 - 124
1,1-Dichloroethene	50.0	48.6		ug/L		97	77 - 126
1,2-Dichloropropane	50.0	49.0		ug/L		98	80 - 120
Ethylbenzene	50.0	47.3		ug/L		95	80 - 120
2-Hexanone	50.0	49.6		ug/L		99	64 - 136
Methyl bromide	50.0	53.9		ug/L		108	57 - 139
Methyl chloride	50.0	52.6		ug/L		105	70 - 127
Methylene bromide	50.0	49.4		ug/L		99	78 - 120
Methylene Chloride	50.0	49.0		ug/L		98	80 - 120
Methyl Ethyl Ketone	50.0	49.2		ug/L		98	70 - 130
Methyl iodide	50.0	49.6		ug/L		99	73 - 125
4-Methyl-2-pentanone (MIBK)	50.0	53.5		ug/L		107	76 - 129
Styrene	50.0	50.3		ug/L		101	80 - 120
1,1,1,2-Tetrachloroethane	50.0	45.8		ug/L		92	80 - 120
1,1,2,2-Tetrachloroethane	50.0	47.3		ug/L		95	80 - 120
Tetrachloroethene	50.0	48.2		ug/L		96	80 - 120
Toluene	50.0	49.3		ug/L		99	80 - 120
trans-1,4-Dichloro-2-butene	50.0	46.6		ug/L		93	75 - 127
trans-1,2-Dichloroethene	50.0	51.2		ug/L		102	80 - 120

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

Lab Sample ID: LCS 160-308482/4
Matrix: Water
Analysis Batch: 308482

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			50.0	51.9		ug/L		104	80 - 130		
1,1,1-Trichloroethane			50.0	49.1		ug/L		98	76 - 120		
1,1,2-Trichloroethane			50.0	48.4		ug/L		97	80 - 120		
Trichloroethene			50.0	47.5		ug/L		95	73 - 120		
Trichlorofluoromethane			50.0	50.4		ug/L		101	74 - 130		
1,2,3-Trichloropropane			50.0	47.4		ug/L		95	80 - 120		
Vinyl acetate			50.0	54.4		ug/L		109	37 - 140		
Vinyl chloride			50.0	49.7		ug/L		99	51 - 140		
Xylenes, Total			100	97.9		ug/L		98	80 - 121		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*71 - 139*
Dibromofluoromethane (Surr)	*94*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*92*		*76 - 121*
Toluene-d8 (Surr)	*99*		*80 - 129*

Lab Sample ID: LCSD 160-308482/5
Matrix: Water
Analysis Batch: 308482

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
Acetone			50.0	47.0		ug/L		94	63 - 131	4	20
Acrylonitrile			500	500		ug/L		100	81 - 117	1	20
Benzene			50.0	43.7		ug/L		87	80 - 120	0	20
Bromochloromethane			50.0	48.2		ug/L		96	80 - 120	1	20
Bromodichloromethane			50.0	48.9		ug/L		98	80 - 120	1	20
Bromoform			50.0	50.1		ug/L		100	80 - 120	1	20
Carbon disulfide			50.0	50.5		ug/L		101	79 - 126	0	20
Carbon tetrachloride			50.0	47.4		ug/L		95	73 - 123	2	20
Chlorobenzene			50.0	46.2		ug/L		92	80 - 120	0	20
Chloroethane			50.0	48.8		ug/L		98	52 - 140	2	20
Chloroform			50.0	46.7		ug/L		93	80 - 120	1	20
cis-1,2-Dichloroethene			50.0	50.5		ug/L		101	80 - 120	1	20
cis-1,3-Dichloropropene			50.0	52.7		ug/L		105	80 - 122	2	20
Dibromochloromethane			50.0	47.3		ug/L		95	80 - 120	2	20
1,2-Dibromo-3-Chloropropane			50.0	50.2		ug/L		100	77 - 125	3	20
1,2-Dibromoethane (EDB)			50.0	49.3		ug/L		99	80 - 120	0	20
1,2-Dichlorobenzene			50.0	46.7		ug/L		93	80 - 120	1	20
1,4-Dichlorobenzene			50.0	46.3		ug/L		93	80 - 120	3	20
1,1-Dichloroethane			50.0	46.6		ug/L		93	80 - 120	1	20
1,2-Dichloroethane			50.0	45.5		ug/L		91	69 - 124	2	20
1,1-Dichloroethene			50.0	48.2		ug/L		96	77 - 126	1	20
1,2-Dichloropropane			50.0	49.7		ug/L		99	80 - 120	2	20
Ethylbenzene			50.0	47.3		ug/L		95	80 - 120	0	20
2-Hexanone			50.0	48.5		ug/L		97	64 - 136	2	20
Methyl bromide			50.0	55.1		ug/L		110	57 - 139	2	20
Methyl chloride			50.0	51.9		ug/L		104	70 - 127	1	20
Methylene bromide			50.0	48.0		ug/L		96	78 - 120	3	20

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

Lab Sample ID: LCSD 160-308482/5
Matrix: Water
Analysis Batch: 308482

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
Methylene Chloride			50.0	48.1		ug/L		96	80 - 120	2	20
Methyl Ethyl Ketone			50.0	49.5		ug/L		99	70 - 130	1	20
Methyl iodide			50.0	49.2		ug/L		98	73 - 125	1	20
4-Methyl-2-pentanone (MIBK)			50.0	52.5		ug/L		105	76 - 129	2	20
Styrene			50.0	49.0		ug/L		98	80 - 120	3	20
1,1,1,2-Tetrachloroethane			50.0	44.7		ug/L		89	80 - 120	3	20
1,1,2,2-Tetrachloroethane			50.0	46.9		ug/L		94	80 - 120	1	20
Tetrachloroethene			50.0	47.4		ug/L		95	80 - 120	2	20
Toluene			50.0	49.3		ug/L		99	80 - 120	0	20
trans-1,4-Dichloro-2-butene			50.0	47.9		ug/L		96	75 - 127	3	20
trans-1,2-Dichloroethene			50.0	50.1		ug/L		100	80 - 120	2	20
trans-1,3-Dichloropropene			50.0	49.9		ug/L		100	80 - 130	4	20
1,1,1-Trichloroethane			50.0	48.4		ug/L		97	76 - 120	1	20
1,1,2-Trichloroethane			50.0	48.4		ug/L		97	80 - 120	0	20
Trichloroethene			50.0	48.0		ug/L		96	73 - 120	1	20
Trichlorofluoromethane			50.0	48.8		ug/L		98	74 - 130	3	20
1,2,3-Trichloropropane			50.0	48.1		ug/L		96	80 - 120	2	20
Vinyl acetate			50.0	50.7		ug/L		101	37 - 140	7	20
Vinyl chloride			50.0	49.2		ug/L		98	51 - 140	1	20
Xylenes, Total			100	96.2		ug/L		96	80 - 121	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*71 - 139*
Dibromofluoromethane (Surr)	*94*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*90*		*76 - 121*
Toluene-d8 (Surr)	*100*		*80 - 129*

Lab Sample ID: 160-22211-A-1 MS
Matrix: Water
Analysis Batch: 308482

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		50.0	43.0		ug/L		86	52 - 138
Acrylonitrile	ND		500	479		ug/L		96	58 - 142
Benzene	1.0	J	50.0	42.0		ug/L		82	80 - 120
Bromochloromethane	ND		50.0	47.1		ug/L		94	72 - 125
Bromodichloromethane	ND		50.0	48.6		ug/L		97	71 - 128
Bromoform	ND		50.0	48.7		ug/L		97	65 - 133
Carbon disulfide	ND		50.0	47.2		ug/L		94	69 - 139
Carbon tetrachloride	ND		50.0	43.7		ug/L		87	70 - 126
Chlorobenzene	ND		50.0	44.2		ug/L		88	80 - 120
Chloroethane	ND		50.0	42.9		ug/L		86	59 - 144
Chloroform	ND		50.0	46.0		ug/L		92	80 - 120
cis-1,2-Dichloroethene	ND		50.0	47.7		ug/L		95	80 - 124
cis-1,3-Dichloropropene	ND		50.0	49.2		ug/L		98	67 - 130
Dibromochloromethane	ND		50.0	45.8		ug/L		92	68 - 133
1,2-Dibromo-3-Chloropropane	ND		50.0	46.0		ug/L		92	58 - 148
1,2-Dibromoethane (EDB)	ND		50.0	46.4		ug/L		93	65 - 138

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

Lab Sample ID: 160-22211-A-1 MS
Matrix: Water
Analysis Batch: 308482

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	ND		50.0	45.3		ug/L		91	80 - 124
1,4-Dichlorobenzene	ND		50.0	44.2		ug/L		88	80 - 120
1,1-Dichloroethane	ND		50.0	44.7		ug/L		89	80 - 120
1,2-Dichloroethane	ND		50.0	45.3		ug/L		91	56 - 136
1,1-Dichloroethene	ND		50.0	44.2		ug/L		88	66 - 137
1,2-Dichloropropane	ND		50.0	47.2		ug/L		94	80 - 123
Ethylbenzene	ND		50.0	45.2		ug/L		90	80 - 121
2-Hexanone	ND		50.0	44.2		ug/L		88	47 - 150
Methyl bromide	ND		50.0	45.6		ug/L		91	53 - 146
Methyl chloride	ND		50.0	39.7		ug/L		79	61 - 137
Methylene bromide	ND		50.0	46.4		ug/L		93	61 - 136
Methylene Chloride	ND		50.0	46.4		ug/L		93	80 - 120
Methyl Ethyl Ketone	ND		50.0	46.0		ug/L		92	58 - 143
Methyl iodide	ND		50.0	45.8		ug/L		92	69 - 124
4-Methyl-2-pentanone (MIBK)	ND		50.0	49.0		ug/L		98	53 - 150
Styrene	ND		50.0	47.0		ug/L		94	44 - 150
1,1,1,2-Tetrachloroethane	ND		50.0	43.7		ug/L		87	80 - 120
1,1,2,2-Tetrachloroethane	ND		50.0	45.0		ug/L		90	60 - 150
Tetrachloroethene	ND		50.0	44.7		ug/L		89	66 - 132
Toluene	ND		50.0	47.4		ug/L		95	75 - 134
trans-1,4-Dichloro-2-butene	ND		50.0	42.1		ug/L		84	55 - 146
trans-1,2-Dichloroethene	ND		50.0	47.1		ug/L		94	79 - 121
trans-1,3-Dichloropropene	ND		50.0	48.4		ug/L		97	68 - 143
1,1,1-Trichloroethane	ND		50.0	45.5		ug/L		91	74 - 123
1,1,2-Trichloroethane	ND		50.0	46.4		ug/L		93	70 - 134
Trichloroethene	ND		50.0	44.8		ug/L		90	63 - 120
Trichlorofluoromethane	ND		50.0	43.1		ug/L		86	53 - 150
1,2,3-Trichloropropane	ND		50.0	47.0		ug/L		94	62 - 137
Vinyl acetate	ND		50.0	53.6		ug/L		107	63 - 150
Vinyl chloride	ND		50.0	41.8		ug/L		84	54 - 140
Xylenes, Total	ND		100	90.9		ug/L		91	80 - 124

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*71 - 139*
Dibromofluoromethane (Surr)	*91*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*91*		*76 - 121*
Toluene-d8 (Surr)	*93*		*80 - 129*

Lab Sample ID: 160-22211-A-1 MSD
Matrix: Water
Analysis Batch: 308482

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		50.0	47.9		ug/L		96	52 - 138	11	20
Acrylonitrile	ND		500	527		ug/L		105	58 - 142	10	20
Benzene	1.0	J	50.0	43.5		ug/L		85	80 - 120	4	20
Bromochloromethane	ND		50.0	48.2		ug/L		96	72 - 125	2	20
Bromodichloromethane	ND		50.0	49.5		ug/L		99	71 - 128	2	20

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

Lab Sample ID: 160-22211-A-1 MSD
Matrix: Water
Analysis Batch: 308482

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	ND		50.0	52.0		ug/L		104	65 - 133	7	20
Carbon disulfide	ND		50.0	48.1		ug/L		96	69 - 139	2	20
Carbon tetrachloride	ND		50.0	44.6		ug/L		89	70 - 126	2	20
Chlorobenzene	ND		50.0	45.0		ug/L		90	80 - 120	2	20
Chloroethane	ND		50.0	46.2		ug/L		92	59 - 144	7	20
Chloroform	ND		50.0	46.5		ug/L		93	80 - 120	1	20
cis-1,2-Dichloroethene	ND		50.0	49.5		ug/L		99	80 - 124	4	20
cis-1,3-Dichloropropene	ND		50.0	52.0		ug/L		104	67 - 130	6	20
Dibromochloromethane	ND		50.0	48.1		ug/L		96	68 - 133	5	20
1,2-Dibromo-3-Chloropropane	ND		50.0	51.5		ug/L		103	58 - 148	11	20
1,2-Dibromoethane (EDB)	ND		50.0	50.1		ug/L		100	65 - 138	8	20
1,2-Dichlorobenzene	ND		50.0	47.7		ug/L		95	80 - 124	5	20
1,4-Dichlorobenzene	ND		50.0	45.9		ug/L		92	80 - 120	4	20
1,1-Dichloroethane	ND		50.0	45.7		ug/L		91	80 - 120	2	20
1,2-Dichloroethane	ND		50.0	47.7		ug/L		95	56 - 136	5	20
1,1-Dichloroethene	ND		50.0	45.6		ug/L		91	66 - 137	3	20
1,2-Dichloropropane	ND		50.0	49.3		ug/L		99	80 - 123	4	20
Ethylbenzene	ND		50.0	46.0		ug/L		92	80 - 121	2	20
2-Hexanone	ND		50.0	50.0		ug/L		100	47 - 150	12	20
Methyl bromide	ND		50.0	50.4		ug/L		101	53 - 146	10	20
Methyl chloride	ND		50.0	43.3		ug/L		87	61 - 137	9	20
Methylene bromide	ND		50.0	50.6		ug/L		101	61 - 136	9	20
Methylene Chloride	ND		50.0	48.6		ug/L		97	80 - 120	5	20
Methyl Ethyl Ketone	ND		50.0	51.7		ug/L		103	58 - 143	12	20
Methyl iodide	ND		50.0	47.8		ug/L		96	69 - 124	4	20
4-Methyl-2-pentanone (MIBK)	ND		50.0	55.0		ug/L		110	53 - 150	12	20
Styrene	ND		50.0	49.1		ug/L		98	44 - 150	4	20
1,1,1,2-Tetrachloroethane	ND		50.0	45.2		ug/L		90	80 - 120	3	20
1,1,2,2-Tetrachloroethane	ND		50.0	49.3		ug/L		99	60 - 150	9	20
Tetrachloroethene	ND		50.0	45.2		ug/L		90	66 - 132	1	20
Toluene	ND		50.0	48.2		ug/L		96	75 - 134	2	20
trans-1,4-Dichloro-2-butene	ND		50.0	46.1		ug/L		92	55 - 146	9	20
trans-1,2-Dichloroethene	ND		50.0	48.9		ug/L		98	79 - 121	4	20
trans-1,3-Dichloropropene	ND		50.0	50.7		ug/L		101	68 - 143	5	20
1,1,1-Trichloroethane	ND		50.0	46.8		ug/L		94	74 - 123	3	20
1,1,2-Trichloroethane	ND		50.0	49.3		ug/L		99	70 - 134	6	20
Trichloroethene	ND		50.0	45.7		ug/L		91	63 - 120	2	20
Trichlorofluoromethane	ND		50.0	44.7		ug/L		89	53 - 150	4	20
1,2,3-Trichloropropane	ND		50.0	49.7		ug/L		99	62 - 137	5	20
Vinyl acetate	ND		50.0	57.8		ug/L		116	63 - 150	8	20
Vinyl chloride	ND		50.0	43.0		ug/L		86	54 - 140	3	20
Xylenes, Total	ND		100	93.7		ug/L		94	80 - 124	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*71 - 139*
Dibromofluoromethane (Surr)	*93*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*93*		*76 - 121*
Toluene-d8 (Surr)	*94*		*80 - 129*

Lab Sample ID: MB 160-308591/23
Matrix: Water
Analysis Batch: 308591

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/16/17 01:37	1
Acrylonitrile	ND		50	1.7	ug/L			05/16/17 01:37	1
Benzene	ND		5.0	0.25	ug/L			05/16/17 01:37	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/16/17 01:37	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/16/17 01:37	1
Bromoform	ND		5.0	0.37	ug/L			05/16/17 01:37	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/16/17 01:37	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/16/17 01:37	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/16/17 01:37	1
Chloroethane	ND		10	0.38	ug/L			05/16/17 01:37	1
Chloroform	ND		5.0	0.15	ug/L			05/16/17 01:37	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/16/17 01:37	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/16/17 01:37	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/16/17 01:37	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/16/17 01:37	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/16/17 01:37	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/16/17 01:37	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/16/17 01:37	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/16/17 01:37	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/16/17 01:37	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/16/17 01:37	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/16/17 01:37	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/16/17 01:37	1
2-Hexanone	ND		20	0.59	ug/L			05/16/17 01:37	1
Methyl bromide	ND		10	0.40	ug/L			05/16/17 01:37	1
Methyl chloride	ND		10	0.55	ug/L			05/16/17 01:37	1
Methylene bromide	ND		5.0	0.41	ug/L			05/16/17 01:37	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/16/17 01:37	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/16/17 01:37	1
Methyl iodide	ND		5.0	1.5	ug/L			05/16/17 01:37	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/16/17 01:37	1
Styrene	ND		5.0	0.35	ug/L			05/16/17 01:37	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/16/17 01:37	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/16/17 01:37	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/16/17 01:37	1
Toluene	ND		5.0	1.0	ug/L			05/16/17 01:37	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/16/17 01:37	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/16/17 01:37	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/16/17 01:37	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/16/17 01:37	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/16/17 01:37	1
Trichloroethene	ND		5.0	0.29	ug/L			05/16/17 01:37	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/16/17 01:37	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/16/17 01:37	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/16/17 01:37	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/16/17 01:37	1
Xylenes, Total	ND		10	0.85	ug/L			05/16/17 01:37	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*71 - 139*		*05/16/17 01:37*	*1*

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

Lab Sample ID: MB 160-308591/23
Matrix: Water
Analysis Batch: 308591

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*101*		*80 - 121*		*05/16/17 01:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*101*		*76 - 121*		*05/16/17 01:37*	*1*
Toluene-d8 (Surr)	*100*		*80 - 129*		*05/16/17 01:37*	*1*

Lab Sample ID: LCS 160-308591/20
Matrix: Water
Analysis Batch: 308591

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	50.0	47.9		ug/L		96	63 - 131
Acrylonitrile	500	500		ug/L		100	81 - 117
Benzene	50.0	42.8		ug/L		86	80 - 120
Bromochloromethane	50.0	47.6		ug/L		95	80 - 120
Bromodichloromethane	50.0	50.1		ug/L		100	80 - 120
Bromoform	50.0	52.3		ug/L		105	80 - 120
Carbon disulfide	50.0	49.0		ug/L		98	79 - 126
Carbon tetrachloride	50.0	49.7		ug/L		99	73 - 123
Chlorobenzene	50.0	46.4		ug/L		93	80 - 120
Chloroethane	50.0	48.7		ug/L		97	52 - 140
Chloroform	50.0	48.1		ug/L		96	80 - 120
cis-1,2-Dichloroethene	50.0	50.4		ug/L		101	80 - 120
cis-1,3-Dichloropropene	50.0	52.5		ug/L		105	80 - 122
Dibromochloromethane	50.0	49.1		ug/L		98	80 - 120
1,2-Dibromo-3-Chloropropane	50.0	50.4		ug/L		101	77 - 125
1,2-Dibromoethane (EDB)	50.0	49.8		ug/L		100	80 - 120
1,2-Dichlorobenzene	50.0	48.1		ug/L		96	80 - 120
1,4-Dichlorobenzene	50.0	47.1		ug/L		94	80 - 120
1,1-Dichloroethane	50.0	47.7		ug/L		95	80 - 120
1,2-Dichloroethane	50.0	48.3		ug/L		97	69 - 124
1,1-Dichloroethene	50.0	48.1		ug/L		96	77 - 126
1,2-Dichloropropane	50.0	49.0		ug/L		98	80 - 120
Ethylbenzene	50.0	49.1		ug/L		98	80 - 120
2-Hexanone	50.0	49.9		ug/L		100	64 - 136
Methyl bromide	50.0	55.7		ug/L		111	57 - 139
Methyl chloride	50.0	53.3		ug/L		107	70 - 127
Methylene bromide	50.0	47.8		ug/L		96	78 - 120
Methylene Chloride	50.0	46.9		ug/L		94	80 - 120
Methyl Ethyl Ketone	50.0	50.7		ug/L		101	70 - 130
Methyl iodide	50.0	49.0		ug/L		98	73 - 125
4-Methyl-2-pentanone (MIBK)	50.0	54.3		ug/L		109	76 - 129
Styrene	50.0	50.5		ug/L		101	80 - 120
1,1,1,2-Tetrachloroethane	50.0	47.4		ug/L		95	80 - 120
1,1,2,2-Tetrachloroethane	50.0	47.7		ug/L		95	80 - 120
Tetrachloroethene	50.0	49.2		ug/L		98	80 - 120
Toluene	50.0	50.4		ug/L		101	80 - 120
trans-1,4-Dichloro-2-butene	50.0	52.1		ug/L		104	75 - 127
trans-1,2-Dichloroethene	50.0	51.0		ug/L		102	80 - 120
trans-1,3-Dichloropropene	50.0	53.1		ug/L		106	80 - 130

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

Lab Sample ID: LCS 160-308591/20
Matrix: Water
Analysis Batch: 308591

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	50.0	49.8		ug/L		100	76 - 120
1,1,2-Trichloroethane	50.0	48.9		ug/L		98	80 - 120
Trichloroethene	50.0	47.8		ug/L		96	73 - 120
Trichlorofluoromethane	50.0	50.0		ug/L		100	74 - 130
1,2,3-Trichloropropane	50.0	50.0		ug/L		100	80 - 120
Vinyl acetate	50.0	52.7		ug/L		105	37 - 140
Vinyl chloride	50.0	49.1		ug/L		98	51 - 140
Xylenes, Total	100	98.9		ug/L		99	80 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*71 - 139*
Dibromofluoromethane (Surr)	*94*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*95*		*76 - 121*
Toluene-d8 (Surr)	*100*		*80 - 129*

Lab Sample ID: LCSD 160-308591/21
Matrix: Water
Analysis Batch: 308591

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
Acetone	50.0	44.2		ug/L		88	63 - 131	8	20
Acrylonitrile	500	496		ug/L		99	81 - 117	1	20
Benzene	50.0	41.9		ug/L		84	80 - 120	2	20
Bromochloromethane	50.0	47.9		ug/L		96	80 - 120	1	20
Bromodichloromethane	50.0	48.2		ug/L		96	80 - 120	4	20
Bromoform	50.0	51.9		ug/L		104	80 - 120	1	20
Carbon disulfide	50.0	47.8		ug/L		96	79 - 126	3	20
Carbon tetrachloride	50.0	47.5		ug/L		95	73 - 123	4	20
Chlorobenzene	50.0	45.9		ug/L		92	80 - 120	1	20
Chloroethane	50.0	45.7		ug/L		91	52 - 140	6	20
Chloroform	50.0	46.4		ug/L		93	80 - 120	4	20
cis-1,2-Dichloroethene	50.0	49.4		ug/L		99	80 - 120	2	20
cis-1,3-Dichloropropene	50.0	51.7		ug/L		103	80 - 122	2	20
Dibromochloromethane	50.0	48.3		ug/L		97	80 - 120	2	20
1,2-Dibromo-3-Chloropropane	50.0	49.4		ug/L		99	77 - 125	2	20
1,2-Dibromoethane (EDB)	50.0	49.5		ug/L		99	80 - 120	1	20
1,2-Dichlorobenzene	50.0	47.3		ug/L		95	80 - 120	2	20
1,4-Dichlorobenzene	50.0	45.8		ug/L		92	80 - 120	3	20
1,1-Dichloroethane	50.0	45.7		ug/L		91	80 - 120	4	20
1,2-Dichloroethane	50.0	46.5		ug/L		93	69 - 124	4	20
1,1-Dichloroethene	50.0	46.1		ug/L		92	77 - 126	4	20
1,2-Dichloropropane	50.0	48.5		ug/L		97	80 - 120	1	20
Ethylbenzene	50.0	47.5		ug/L		95	80 - 120	3	20
2-Hexanone	50.0	49.3		ug/L		99	64 - 136	1	20
Methyl bromide	50.0	54.8		ug/L		110	57 - 139	2	20
Methyl chloride	50.0	51.1		ug/L		102	70 - 127	4	20
Methylene bromide	50.0	47.9		ug/L		96	78 - 120	0	20
Methylene Chloride	50.0	46.6		ug/L		93	80 - 120	1	20

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

Lab Sample ID: LCSD 160-308591/21
Matrix: Water
Analysis Batch: 308591

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
Methyl Ethyl Ketone			50.0	47.9		ug/L		96	70 - 130	6	20
Methyl iodide			50.0	48.1		ug/L		96	73 - 125	2	20
4-Methyl-2-pentanone (MIBK)			50.0	53.6		ug/L		107	76 - 129	1	20
Styrene			50.0	49.5		ug/L		99	80 - 120	2	20
1,1,1,2-Tetrachloroethane			50.0	46.3		ug/L		93	80 - 120	2	20
1,1,2,2-Tetrachloroethane			50.0	47.6		ug/L		95	80 - 120	0	20
Tetrachloroethene			50.0	48.0		ug/L		96	80 - 120	2	20
Toluene			50.0	49.5		ug/L		99	80 - 120	2	20
trans-1,4-Dichloro-2-butene			50.0	50.0		ug/L		100	75 - 127	4	20
trans-1,2-Dichloroethene			50.0	49.2		ug/L		98	80 - 120	4	20
trans-1,3-Dichloropropene			50.0	50.9		ug/L		102	80 - 130	4	20
1,1,1-Trichloroethane			50.0	48.2		ug/L		96	76 - 120	3	20
1,1,2-Trichloroethane			50.0	48.7		ug/L		97	80 - 120	0	20
Trichloroethene			50.0	45.9		ug/L		92	73 - 120	4	20
Trichlorofluoromethane			50.0	46.4		ug/L		93	74 - 130	7	20
1,2,3-Trichloropropane			50.0	49.9		ug/L		100	80 - 120	0	20
Vinyl acetate			50.0	51.8		ug/L		104	37 - 140	2	20
Vinyl chloride			50.0	48.0		ug/L		96	51 - 140	2	20
Xylenes, Total			100	96.9		ug/L		97	80 - 121	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*71 - 139*
Dibromofluoromethane (Surr)	*95*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*91*		*76 - 121*
Toluene-d8 (Surr)	*99*		*80 - 129*

Lab Sample ID: 160-22238-8 MS
Matrix: Water
Analysis Batch: 308591

Client Sample ID: DUPI 050817
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		50.0	49.4		ug/L		99	52 - 138
Acrylonitrile	ND		500	526		ug/L		105	58 - 142
Benzene	2.8	J	50.0	46.7		ug/L		88	80 - 120
Bromochloromethane	ND		50.0	50.9		ug/L		102	72 - 125
Bromodichloromethane	ND		50.0	51.2		ug/L		102	71 - 128
Bromoform	ND		50.0	53.7		ug/L		107	65 - 133
Carbon disulfide	ND		50.0	51.0		ug/L		102	69 - 139
Carbon tetrachloride	ND		50.0	47.5		ug/L		95	70 - 126
Chlorobenzene	ND		50.0	47.3		ug/L		95	80 - 120
Chloroethane	ND		50.0	49.1		ug/L		98	59 - 144
Chloroform	ND		50.0	48.3		ug/L		97	80 - 120
cis-1,2-Dichloroethene	ND		50.0	51.9		ug/L		104	80 - 124
cis-1,3-Dichloropropene	ND		50.0	53.3		ug/L		107	67 - 130
Dibromochloromethane	ND		50.0	50.5		ug/L		101	68 - 133
1,2-Dibromo-3-Chloropropane	ND		50.0	52.2		ug/L		104	58 - 148
1,2-Dibromoethane (EDB)	ND		50.0	51.6		ug/L		103	65 - 138
1,2-Dichlorobenzene	ND		50.0	48.3		ug/L		97	80 - 124

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

Lab Sample ID: 160-22238-8 MS
Matrix: Water
Analysis Batch: 308591

Client Sample ID: DUPI 050817
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	0.44	J	50.0	47.6		ug/L		94	80 - 120
1,1-Dichloroethane	ND		50.0	48.0		ug/L		96	80 - 120
1,2-Dichloroethane	ND		50.0	48.3		ug/L		97	56 - 136
1,1-Dichloroethene	ND		50.0	48.1		ug/L		96	66 - 137
1,2-Dichloropropane	ND		50.0	50.7		ug/L		101	80 - 123
Ethylbenzene	ND		50.0	49.1		ug/L		98	80 - 121
2-Hexanone	ND		50.0	50.8		ug/L		102	47 - 150
Methyl bromide	ND		50.0	54.1		ug/L		108	53 - 146
Methyl chloride	ND		50.0	48.1		ug/L		96	61 - 137
Methylene bromide	ND		50.0	51.2		ug/L		102	61 - 136
Methylene Chloride	ND		50.0	49.9		ug/L		100	80 - 120
Methyl Ethyl Ketone	ND		50.0	50.7		ug/L		101	58 - 143
Methyl iodide	ND		50.0	50.1		ug/L		100	69 - 124
4-Methyl-2-pentanone (MIBK)	ND		50.0	55.8		ug/L		112	53 - 150
Styrene	ND		50.0	50.8		ug/L		102	44 - 150
1,1,1,2-Tetrachloroethane	ND		50.0	47.4		ug/L		95	80 - 120
1,1,2,2-Tetrachloroethane	ND		50.0	49.4		ug/L		99	60 - 150
Tetrachloroethene	ND		50.0	48.6		ug/L		97	66 - 132
Toluene	ND		50.0	51.4		ug/L		103	75 - 134
trans-1,4-Dichloro-2-butene	ND		50.0	49.6		ug/L		99	55 - 146
trans-1,2-Dichloroethene	ND		50.0	51.5		ug/L		103	79 - 121
trans-1,3-Dichloropropene	ND		50.0	52.1		ug/L		104	68 - 143
1,1,1-Trichloroethane	ND		50.0	49.5		ug/L		99	74 - 123
1,1,2-Trichloroethane	ND		50.0	51.3		ug/L		103	70 - 134
Trichloroethene	ND		50.0	47.7		ug/L		95	63 - 120
Trichlorofluoromethane	ND		50.0	48.8		ug/L		98	53 - 150
1,2,3-Trichloropropane	ND		50.0	52.3		ug/L		105	62 - 137
Vinyl acetate	ND		50.0	58.0		ug/L		116	63 - 150
Vinyl chloride	ND		50.0	48.6		ug/L		97	54 - 140
Xylenes, Total	ND		100	100		ug/L		100	80 - 124

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*71 - 139*
Dibromofluoromethane (Surr)	*94*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*94*		*76 - 121*
Toluene-d8 (Surr)	*96*		*80 - 129*

Lab Sample ID: 160-22238-8 MSD
Matrix: Water
Analysis Batch: 308591

Client Sample ID: DUPI 050817
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		50.0	44.9		ug/L		90	52 - 138	10	20
Acrylonitrile	ND		500	503		ug/L		101	58 - 142	4	20
Benzene	2.8	J	50.0	45.3		ug/L		85	80 - 120	3	20
Bromochloromethane	ND		50.0	48.4		ug/L		97	72 - 125	5	20
Bromodichloromethane	ND		50.0	48.1		ug/L		96	71 - 128	6	20
Bromoform	ND		50.0	52.2		ug/L		104	65 - 133	3	20

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

Lab Sample ID: 160-22238-8 MSD
Matrix: Water
Analysis Batch: 308591

Client Sample ID: DUPI 050817
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon disulfide	ND		50.0	48.3		ug/L		97	69 - 139	5	20
Carbon tetrachloride	ND		50.0	44.7		ug/L		89	70 - 126	6	20
Chlorobenzene	ND		50.0	45.5		ug/L		91	80 - 120	4	20
Chloroethane	ND		50.0	43.0		ug/L		86	59 - 144	13	20
Chloroform	ND		50.0	46.2		ug/L		92	80 - 120	4	20
cis-1,2-Dichloroethene	ND		50.0	50.3		ug/L		101	80 - 124	3	20
cis-1,3-Dichloropropene	ND		50.0	51.0		ug/L		102	67 - 130	4	20
Dibromochloromethane	ND		50.0	47.9		ug/L		96	68 - 133	5	20
1,2-Dibromo-3-Chloropropane	ND		50.0	51.1		ug/L		102	58 - 148	2	20
1,2-Dibromoethane (EDB)	ND		50.0	50.0		ug/L		100	65 - 138	3	20
1,2-Dichlorobenzene	ND		50.0	47.0		ug/L		94	80 - 124	3	20
1,4-Dichlorobenzene	0.44	J	50.0	46.3		ug/L		92	80 - 120	3	20
1,1-Dichloroethane	ND		50.0	46.1		ug/L		92	80 - 120	4	20
1,2-Dichloroethane	ND		50.0	45.7		ug/L		91	56 - 136	5	20
1,1-Dichloroethene	ND		50.0	46.5		ug/L		93	66 - 137	3	20
1,2-Dichloropropane	ND		50.0	48.9		ug/L		98	80 - 123	4	20
Ethylbenzene	ND		50.0	47.1		ug/L		94	80 - 121	4	20
2-Hexanone	ND		50.0	48.6		ug/L		97	47 - 150	4	20
Methyl bromide	ND		50.0	49.9		ug/L		100	53 - 146	8	20
Methyl chloride	ND		50.0	44.7		ug/L		89	61 - 137	7	20
Methylene bromide	ND		50.0	48.4		ug/L		97	61 - 136	6	20
Methylene Chloride	ND		50.0	47.9		ug/L		96	80 - 120	4	20
Methyl Ethyl Ketone	ND		50.0	48.6		ug/L		97	58 - 143	4	20
Methyl iodide	ND		50.0	48.4		ug/L		97	69 - 124	3	20
4-Methyl-2-pentanone (MIBK)	ND		50.0	54.3		ug/L		109	53 - 150	3	20
Styrene	ND		50.0	49.2		ug/L		98	44 - 150	3	20
1,1,1,2-Tetrachloroethane	ND		50.0	45.8		ug/L		92	80 - 120	4	20
1,1,2,2-Tetrachloroethane	ND		50.0	50.3		ug/L		101	60 - 150	2	20
Tetrachloroethene	ND		50.0	45.9		ug/L		92	66 - 132	6	20
Toluene	ND		50.0	49.5		ug/L		99	75 - 134	4	20
trans-1,4-Dichloro-2-butene	ND		50.0	45.3		ug/L		91	55 - 146	9	20
trans-1,2-Dichloroethene	ND		50.0	49.1		ug/L		98	79 - 121	5	20
trans-1,3-Dichloropropene	ND		50.0	50.7		ug/L		101	68 - 143	3	20
1,1,1-Trichloroethane	ND		50.0	46.5		ug/L		93	74 - 123	6	20
1,1,2-Trichloroethane	ND		50.0	49.9		ug/L		100	70 - 134	3	20
Trichloroethene	ND		50.0	45.8		ug/L		92	63 - 120	4	20
Trichlorofluoromethane	ND		50.0	44.3		ug/L		89	53 - 150	10	20
1,2,3-Trichloropropane	ND		50.0	49.3		ug/L		99	62 - 137	6	20
Vinyl acetate	ND		50.0	53.9		ug/L		108	63 - 150	7	20
Vinyl chloride	ND		50.0	42.1		ug/L		84	54 - 140	14	20
Xylenes, Total	ND		100	95.1		ug/L		95	80 - 124	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*71 - 139*
Dibromofluoromethane (Surr)	*92*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*90*		*76 - 121*
Toluene-d8 (Surr)	*97*		*80 - 129*

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

Lab Sample ID: MB 160-309165/7
Matrix: Water
Analysis Batch: 309165

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/17/17 17:22	1
Acrylonitrile	ND		50	1.7	ug/L			05/17/17 17:22	1
Benzene	ND		5.0	0.25	ug/L			05/17/17 17:22	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/17/17 17:22	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/17/17 17:22	1
Bromoform	ND		5.0	0.37	ug/L			05/17/17 17:22	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/17/17 17:22	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/17/17 17:22	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/17/17 17:22	1
Chloroethane	ND		10	0.38	ug/L			05/17/17 17:22	1
Chloroform	ND		5.0	0.15	ug/L			05/17/17 17:22	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/17/17 17:22	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/17/17 17:22	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/17/17 17:22	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/17/17 17:22	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/17/17 17:22	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/17/17 17:22	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/17/17 17:22	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/17/17 17:22	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/17/17 17:22	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/17/17 17:22	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/17/17 17:22	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/17/17 17:22	1
2-Hexanone	ND		20	0.59	ug/L			05/17/17 17:22	1
Methyl bromide	ND		10	0.40	ug/L			05/17/17 17:22	1
Methyl chloride	ND		10	0.55	ug/L			05/17/17 17:22	1
Methylene bromide	ND		5.0	0.41	ug/L			05/17/17 17:22	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/17/17 17:22	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/17/17 17:22	1
Methyl iodide	ND		5.0	1.5	ug/L			05/17/17 17:22	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/17/17 17:22	1
Styrene	ND		5.0	0.35	ug/L			05/17/17 17:22	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/17/17 17:22	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/17/17 17:22	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/17/17 17:22	1
Toluene	ND		5.0	1.0	ug/L			05/17/17 17:22	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/17/17 17:22	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/17/17 17:22	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/17/17 17:22	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/17/17 17:22	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/17/17 17:22	1
Trichloroethene	ND		5.0	0.29	ug/L			05/17/17 17:22	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/17/17 17:22	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/17/17 17:22	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/17/17 17:22	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/17/17 17:22	1
Xylenes, Total	ND		10	0.85	ug/L			05/17/17 17:22	1

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

Lab Sample ID: MB 160-309165/7
Matrix: Water
Analysis Batch: 309165

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		71 - 139		05/17/17 17:22	1
Dibromofluoromethane (Surr)	103		80 - 121		05/17/17 17:22	1
1,2-Dichloroethane-d4 (Surr)	107		76 - 121		05/17/17 17:22	1
Toluene-d8 (Surr)	98		80 - 129		05/17/17 17:22	1

Lab Sample ID: LCS 160-309165/4
Matrix: Water
Analysis Batch: 309165

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	50.0	49.6		ug/L		99	63 - 131
Acrylonitrile	500	496		ug/L		99	81 - 117
Benzene	50.0	43.2		ug/L		86	80 - 120
Bromochloromethane	50.0	49.4		ug/L		99	80 - 120
Bromodichloromethane	50.0	53.7		ug/L		107	80 - 120
Bromoform	50.0	54.5		ug/L		109	80 - 120
Carbon disulfide	50.0	50.2		ug/L		100	79 - 126
Carbon tetrachloride	50.0	53.9		ug/L		108	73 - 123
Chlorobenzene	50.0	47.2		ug/L		94	80 - 120
Chloroethane	50.0	58.1		ug/L		116	52 - 140
Chloroform	50.0	50.0		ug/L		100	80 - 120
cis-1,2-Dichloroethene	50.0	50.3		ug/L		101	80 - 120
cis-1,3-Dichloropropene	50.0	53.5		ug/L		107	80 - 122
Dibromochloromethane	50.0	51.8		ug/L		104	80 - 120
1,2-Dibromo-3-Chloropropane	50.0	54.2		ug/L		108	77 - 125
1,2-Dibromoethane (EDB)	50.0	49.2		ug/L		98	80 - 120
1,2-Dichlorobenzene	50.0	47.7		ug/L		95	80 - 120
1,4-Dichlorobenzene	50.0	47.2		ug/L		94	80 - 120
1,1-Dichloroethane	50.0	48.8		ug/L		98	80 - 120
1,2-Dichloroethane	50.0	51.8		ug/L		104	69 - 124
1,1-Dichloroethene	50.0	48.6		ug/L		97	77 - 126
1,2-Dichloropropane	50.0	48.4		ug/L		97	80 - 120
Ethylbenzene	50.0	53.6		ug/L		107	80 - 120
2-Hexanone	50.0	51.9		ug/L		104	64 - 136
Methyl bromide	50.0	67.5		ug/L		135	57 - 139
Methyl chloride	50.0	52.5		ug/L		105	70 - 127
Methylene bromide	50.0	49.3		ug/L		99	78 - 120
Methylene Chloride	50.0	48.4		ug/L		97	80 - 120
Methyl Ethyl Ketone	50.0	50.4		ug/L		101	70 - 130
Methyl iodide	50.0	49.9		ug/L		100	73 - 125
4-Methyl-2-pentanone (MIBK)	50.0	55.4		ug/L		111	76 - 129
Styrene	50.0	51.1		ug/L		102	80 - 120
1,1,1,2-Tetrachloroethane	50.0	49.1		ug/L		98	80 - 120
1,1,2,2-Tetrachloroethane	50.0	46.9		ug/L		94	80 - 120
Tetrachloroethene	50.0	50.2		ug/L		100	80 - 120
Toluene	50.0	50.7		ug/L		101	80 - 120
trans-1,4-Dichloro-2-butene	50.0	54.2		ug/L		108	75 - 127
trans-1,2-Dichloroethene	50.0	49.8		ug/L		100	80 - 120

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

Lab Sample ID: LCS 160-309165/4
Matrix: Water
Analysis Batch: 309165

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	50.0	54.9		ug/L		110	80 - 130
1,1,1-Trichloroethane	50.0	53.2		ug/L		106	76 - 120
1,1,2-Trichloroethane	50.0	48.5		ug/L		97	80 - 120
Trichloroethene	50.0	48.7		ug/L		97	73 - 120
Trichlorofluoromethane	50.0	60.6		ug/L		121	74 - 130
1,2,3-Trichloropropane	50.0	50.1		ug/L		100	80 - 120
Vinyl acetate	50.0	55.6		ug/L		111	37 - 140
Vinyl chloride	50.0	60.0		ug/L		120	51 - 140
Xylenes, Total	100	99.5		ug/L		100	80 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*71 - 139*
Dibromofluoromethane (Surr)	*100*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*105*		*76 - 121*
Toluene-d8 (Surr)	*102*		*80 - 129*

Lab Sample ID: LCSD 160-309165/5
Matrix: Water
Analysis Batch: 309165

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
Acetone	50.0	46.1		ug/L		92	63 - 131	7	20
Acrylonitrile	500	496		ug/L		99	81 - 117	0	20
Benzene	50.0	42.4		ug/L		85	80 - 120	2	20
Bromochloromethane	50.0	47.4		ug/L		95	80 - 120	4	20
Bromodichloromethane	50.0	50.7		ug/L		101	80 - 120	6	20
Bromoform	50.0	52.5		ug/L		105	80 - 120	4	20
Carbon disulfide	50.0	48.4		ug/L		97	79 - 126	4	20
Carbon tetrachloride	50.0	51.7		ug/L		103	73 - 123	4	20
Chlorobenzene	50.0	45.8		ug/L		92	80 - 120	3	20
Chloroethane	50.0	56.4		ug/L		113	52 - 140	3	20
Chloroform	50.0	48.7		ug/L		97	80 - 120	3	20
cis-1,2-Dichloroethene	50.0	49.2		ug/L		98	80 - 120	2	20
cis-1,3-Dichloropropene	50.0	52.5		ug/L		105	80 - 122	2	20
Dibromochloromethane	50.0	49.3		ug/L		99	80 - 120	5	20
1,2-Dibromo-3-Chloropropane	50.0	49.5		ug/L		99	77 - 125	9	20
1,2-Dibromoethane (EDB)	50.0	48.4		ug/L		97	80 - 120	2	20
1,2-Dichlorobenzene	50.0	46.3		ug/L		93	80 - 120	3	20
1,4-Dichlorobenzene	50.0	45.8		ug/L		92	80 - 120	3	20
1,1-Dichloroethane	50.0	47.8		ug/L		96	80 - 120	2	20
1,2-Dichloroethane	50.0	49.5		ug/L		99	69 - 124	4	20
1,1-Dichloroethene	50.0	47.1		ug/L		94	77 - 126	3	20
1,2-Dichloropropane	50.0	48.5		ug/L		97	80 - 120	0	20
Ethylbenzene	50.0	47.2		ug/L		94	80 - 120	13	20
2-Hexanone	50.0	48.6		ug/L		97	64 - 136	7	20
Methyl bromide	50.0	63.4		ug/L		127	57 - 139	6	20
Methyl chloride	50.0	50.4		ug/L		101	70 - 127	4	20
Methylene bromide	50.0	49.1		ug/L		98	78 - 120	0	20

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

Lab Sample ID: LCSD 160-309165/5
Matrix: Water
Analysis Batch: 309165

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
Methylene Chloride			50.0	47.5		ug/L		95	80 - 120	2	20
Methyl Ethyl Ketone			50.0	50.1		ug/L		100	70 - 130	1	20
Methyl iodide			50.0	48.5		ug/L		97	73 - 125	3	20
4-Methyl-2-pentanone (MIBK)			50.0	53.3		ug/L		107	76 - 129	4	20
Styrene			50.0	48.8		ug/L		98	80 - 120	5	20
1,1,1,2-Tetrachloroethane			50.0	47.4		ug/L		95	80 - 120	4	20
1,1,2,2-Tetrachloroethane			50.0	46.0		ug/L		92	80 - 120	2	20
Tetrachloroethene			50.0	47.7		ug/L		95	80 - 120	5	20
Toluene			50.0	48.6		ug/L		97	80 - 120	4	20
trans-1,4-Dichloro-2-butene			50.0	51.9		ug/L		104	75 - 127	4	20
trans-1,2-Dichloroethene			50.0	49.3		ug/L		99	80 - 120	1	20
trans-1,3-Dichloropropene			50.0	51.5		ug/L		103	80 - 130	6	20
1,1,1-Trichloroethane			50.0	51.2		ug/L		102	76 - 120	4	20
1,1,2-Trichloroethane			50.0	48.3		ug/L		97	80 - 120	0	20
Trichloroethene			50.0	47.4		ug/L		95	73 - 120	3	20
Trichlorofluoromethane			50.0	54.2		ug/L		108	74 - 130	11	20
1,2,3-Trichloropropane			50.0	48.6		ug/L		97	80 - 120	3	20
Vinyl acetate			50.0	55.1		ug/L		110	37 - 140	1	20
Vinyl chloride			50.0	53.7		ug/L		107	51 - 140	11	20
Xylenes, Total			100	95.4		ug/L		95	80 - 121	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*71 - 139*
Dibromofluoromethane (Surr)	*99*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*102*		*76 - 121*
Toluene-d8 (Surr)	*101*		*80 - 129*

Lab Sample ID: 160-22264-A-2 MS
Matrix: Water
Analysis Batch: 309165

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		50.0	50.0		ug/L		100	52 - 138
Acrylonitrile	ND		500	503		ug/L		101	58 - 142
Benzene	ND		50.0	42.0		ug/L		84	80 - 120
Bromochloromethane	ND		50.0	47.6		ug/L		95	72 - 125
Bromodichloromethane	ND		50.0	50.7		ug/L		101	71 - 128
Bromoform	ND		50.0	52.1		ug/L		104	65 - 133
Carbon disulfide	ND		50.0	48.2		ug/L		96	69 - 139
Carbon tetrachloride	ND		50.0	47.5		ug/L		95	70 - 126
Chlorobenzene	7.5		50.0	52.7		ug/L		90	80 - 120
Chloroethane	ND		50.0	51.5		ug/L		103	59 - 144
Chloroform	ND		50.0	47.4		ug/L		95	80 - 120
cis-1,2-Dichloroethene	ND		50.0	49.5		ug/L		99	80 - 124
cis-1,3-Dichloropropene	ND		50.0	52.0		ug/L		104	67 - 130
Dibromochloromethane	ND		50.0	49.7		ug/L		99	68 - 133
1,2-Dibromo-3-Chloropropane	ND		50.0	51.9		ug/L		104	58 - 148
1,2-Dibromoethane (EDB)	ND		50.0	50.7		ug/L		101	65 - 138

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

Lab Sample ID: 160-22264-A-2 MS
Matrix: Water
Analysis Batch: 309165

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	ND		50.0	45.9		ug/L		92	80 - 124
1,4-Dichlorobenzene	0.47	J	50.0	45.5		ug/L		90	80 - 120
1,1-Dichloroethane	ND		50.0	46.2		ug/L		92	80 - 120
1,2-Dichloroethane	ND		50.0	48.9		ug/L		98	56 - 136
1,1-Dichloroethene	ND		50.0	44.5		ug/L		89	66 - 137
1,2-Dichloropropane	ND		50.0	48.8		ug/L		98	80 - 123
Ethylbenzene	ND		50.0	45.9		ug/L		92	80 - 121
2-Hexanone	ND		50.0	49.0		ug/L		98	47 - 150
Methyl bromide	ND		50.0	57.8		ug/L		116	53 - 146
Methyl chloride	ND		50.0	37.8		ug/L		76	61 - 137
Methylene bromide	ND		50.0	49.1		ug/L		98	61 - 136
Methylene Chloride	ND		50.0	47.2		ug/L		94	80 - 120
Methyl Ethyl Ketone	ND		50.0	48.6		ug/L		97	58 - 143
Methyl iodide	ND		50.0	48.0		ug/L		96	69 - 124
4-Methyl-2-pentanone (MIBK)	ND		50.0	52.5		ug/L		105	53 - 150
Styrene	ND		50.0	49.2		ug/L		98	44 - 150
1,1,1,2-Tetrachloroethane	ND		50.0	46.6		ug/L		93	80 - 120
1,1,2,2-Tetrachloroethane	ND		50.0	46.0		ug/L		92	60 - 150
Tetrachloroethene	ND		50.0	46.6		ug/L		93	66 - 132
Toluene	ND		50.0	48.9		ug/L		98	75 - 134
trans-1,4-Dichloro-2-butene	ND		50.0	49.1		ug/L		98	55 - 146
trans-1,2-Dichloroethene	ND		50.0	48.0		ug/L		96	79 - 121
trans-1,3-Dichloropropene	ND		50.0	52.7		ug/L		105	68 - 143
1,1,1-Trichloroethane	ND		50.0	48.3		ug/L		97	74 - 123
1,1,2-Trichloroethane	ND		50.0	53.2		ug/L		106	70 - 134
Trichloroethene	ND		50.0	46.1		ug/L		92	63 - 120
Trichlorofluoromethane	ND		50.0	48.7		ug/L		97	53 - 150
1,2,3-Trichloropropane	ND		50.0	46.9		ug/L		94	62 - 137
Vinyl acetate	ND		50.0	55.4		ug/L		111	63 - 150
Vinyl chloride	ND		50.0	41.4		ug/L		83	54 - 140
Xylenes, Total	ND		100	95.0		ug/L		95	80 - 124

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*71 - 139*
Dibromofluoromethane (Surr)	*97*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*101*		*76 - 121*
Toluene-d8 (Surr)	*98*		*80 - 129*

Lab Sample ID: 160-22264-A-2 MSD
Matrix: Water
Analysis Batch: 309165

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		50.0	48.9		ug/L		98	52 - 138	2	20
Acrylonitrile	ND		500	497		ug/L		99	58 - 142	1	20
Benzene	ND		50.0	43.9		ug/L		88	80 - 120	5	20
Bromochloromethane	ND		50.0	49.7		ug/L		99	72 - 125	4	20
Bromodichloromethane	ND		50.0	51.3		ug/L		103	71 - 128	1	20

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

Lab Sample ID: 160-22264-A-2 MSD
Matrix: Water
Analysis Batch: 309165

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	ND		50.0	51.3		ug/L		103	65 - 133	2	20
Carbon disulfide	ND		50.0	49.5		ug/L		99	69 - 139	3	20
Carbon tetrachloride	ND		50.0	48.7		ug/L		97	70 - 126	2	20
Chlorobenzene	7.5		50.0	54.6		ug/L		94	80 - 120	4	20
Chloroethane	ND		50.0	56.7		ug/L		113	59 - 144	10	20
Chloroform	ND		50.0	49.2		ug/L		98	80 - 120	4	20
cis-1,2-Dichloroethene	ND		50.0	51.9		ug/L		104	80 - 124	5	20
cis-1,3-Dichloropropene	ND		50.0	53.6		ug/L		107	67 - 130	3	20
Dibromochloromethane	ND		50.0	49.6		ug/L		99	68 - 133	0	20
1,2-Dibromo-3-Chloropropane	ND		50.0	50.4		ug/L		101	58 - 148	3	20
1,2-Dibromoethane (EDB)	ND		50.0	50.1		ug/L		100	65 - 138	1	20
1,2-Dichlorobenzene	ND		50.0	47.1		ug/L		94	80 - 124	3	20
1,4-Dichlorobenzene	0.47	J	50.0	47.4		ug/L		94	80 - 120	4	20
1,1-Dichloroethane	ND		50.0	47.7		ug/L		95	80 - 120	3	20
1,2-Dichloroethane	ND		50.0	48.9		ug/L		98	56 - 136	0	20
1,1-Dichloroethene	ND		50.0	46.7		ug/L		93	66 - 137	5	20
1,2-Dichloropropane	ND		50.0	49.4		ug/L		99	80 - 123	1	20
Ethylbenzene	ND		50.0	48.5		ug/L		97	80 - 121	6	20
2-Hexanone	ND		50.0	48.0		ug/L		96	47 - 150	2	20
Methyl bromide	ND		50.0	62.1		ug/L		124	53 - 146	7	20
Methyl chloride	ND		50.0	42.3		ug/L		85	61 - 137	11	20
Methylene bromide	ND		50.0	50.1		ug/L		100	61 - 136	2	20
Methylene Chloride	ND		50.0	48.9		ug/L		98	80 - 120	3	20
Methyl Ethyl Ketone	ND		50.0	48.4		ug/L		97	58 - 143	0	20
Methyl iodide	ND		50.0	50.1		ug/L		100	69 - 124	4	20
4-Methyl-2-pentanone (MIBK)	ND		50.0	52.6		ug/L		105	53 - 150	0	20
Styrene	ND		50.0	51.4		ug/L		103	44 - 150	4	20
1,1,1,2-Tetrachloroethane	ND		50.0	47.4		ug/L		95	80 - 120	2	20
1,1,2,2-Tetrachloroethane	ND		50.0	45.9		ug/L		92	60 - 150	0	20
Tetrachloroethene	ND		50.0	48.3		ug/L		97	66 - 132	4	20
Toluene	ND		50.0	51.1		ug/L		102	75 - 134	4	20
trans-1,4-Dichloro-2-butene	ND		50.0	48.1		ug/L		96	55 - 146	2	20
trans-1,2-Dichloroethene	ND		50.0	50.8		ug/L		102	79 - 121	6	20
trans-1,3-Dichloropropene	ND		50.0	52.5		ug/L		105	68 - 143	0	20
1,1,1-Trichloroethane	ND		50.0	50.5		ug/L		101	74 - 123	4	20
1,1,2-Trichloroethane	ND		50.0	52.9		ug/L		106	70 - 134	1	20
Trichloroethene	ND		50.0	47.5		ug/L		95	63 - 120	3	20
Trichlorofluoromethane	ND		50.0	51.8		ug/L		104	53 - 150	6	20
1,2,3-Trichloropropane	ND		50.0	48.4		ug/L		97	62 - 137	3	20
Vinyl acetate	ND		50.0	56.5		ug/L		113	63 - 150	2	20
Vinyl chloride	ND		50.0	44.1		ug/L		88	54 - 140	6	20
Xylenes, Total	ND		100	99.0		ug/L		99	80 - 124	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*71 - 139*
Dibromofluoromethane (Surr)	*96*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*97*		*76 - 121*
Toluene-d8 (Surr)	*99*		*80 - 129*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 160-307816/3
Matrix: Water
Analysis Batch: 307816

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	ND		1.0	0.10	mg/L			05/09/17 11:22	1

Lab Sample ID: LCS 160-307816/4
Matrix: Water
Analysis Batch: 307816

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iodide	4.00	3.98		mg/L		99	90 - 110

Lab Sample ID: 160-22211-G-1 MS
Matrix: Water
Analysis Batch: 307816

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iodide	1.1		4.00	5.03		mg/L		98	90 - 110

Lab Sample ID: 160-22211-G-1 DU
Matrix: Water
Analysis Batch: 307816

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Iodide	1.1		1.10		mg/L		0.9	20

Lab Sample ID: MB 160-307867/9
Matrix: Water
Analysis Batch: 307867

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.20	0.020	mg/L			05/09/17 21:48	1

Lab Sample ID: LCS 160-307867/10
Matrix: Water
Analysis Batch: 307867

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.00	1.95		mg/L		97	90 - 110

Lab Sample ID: MB 160-312598/159
Matrix: Water
Analysis Batch: 312598

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10	0.026	mg/L			06/10/17 08:48	1
Sulfate	ND		0.50	0.050	mg/L			06/10/17 08:48	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 160-312598/160
Matrix: Water
Analysis Batch: 312598

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	1.00	0.979		mg/L		98	90 - 110
Sulfate	8.00	7.93		mg/L		99	90 - 110

Method: 300.0 - Anions, Ion Chromatography - DL

Lab Sample ID: 160-22211-G-1 MS
Matrix: Water
Analysis Batch: 307867

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride - DL	130		100	225		mg/L		92	90 - 110

Lab Sample ID: 160-22238-8 MS
Matrix: Water
Analysis Batch: 307867

Client Sample ID: DUPI 050817
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride - DL	45		100	136		mg/L		90	90 - 110

Lab Sample ID: 160-22211-G-1 DU
Matrix: Water
Analysis Batch: 307867

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride - DL	130		132		mg/L		0.6	20

Lab Sample ID: 160-22791-A-1 MS
Matrix: Water
Analysis Batch: 312598

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride - DL	0.36		4.00	4.36		mg/L		100	90 - 110
Sulfate - DL	29		8.00	37.0		mg/L		97	90 - 110

Lab Sample ID: 160-22238-2 DU
Matrix: Water
Analysis Batch: 312598

Client Sample ID: PZ-104-KS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride - DL	1.7	H	1.80		mg/L		5	20
Sulfate - DL	23	H	23.7		mg/L		3	20

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 160-308147/1-A
Matrix: Water
Analysis Batch: 308706

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 308147

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	3.0	ug/L		05/10/17 12:10	05/16/17 02:24	1
Iron	ND		100	30	ug/L		05/10/17 12:10	05/16/17 02:24	1
Arsenic	ND		10	4.0	ug/L		05/10/17 12:10	05/16/17 02:24	1
Barium	ND		50	15	ug/L		05/10/17 12:10	05/16/17 02:24	1
Beryllium	ND		5.0	1.5	ug/L		05/10/17 12:10	05/16/17 02:24	1
Boron	ND		100	25	ug/L		05/10/17 12:10	05/16/17 02:24	1
Cadmium	ND		5.0	1.5	ug/L		05/10/17 12:10	05/16/17 02:24	1
CaHard	ND		2500	750	ug/L		05/10/17 12:10	05/16/17 02:24	1
Calcium	ND		1000	300	ug/L		05/10/17 12:10	05/16/17 02:24	1
Chromium	ND		10	3.0	ug/L		05/10/17 12:10	05/16/17 02:24	1
Cobalt	ND		50	15	ug/L		05/10/17 12:10	05/16/17 02:24	1
Copper	ND		25	7.0	ug/L		05/10/17 12:10	05/16/17 02:24	1
Lead	ND		10	3.0	ug/L		05/10/17 12:10	05/16/17 02:24	1
Magnesium	ND		1000	300	ug/L		05/10/17 12:10	05/16/17 02:24	1
Manganese	ND		15	4.0	ug/L		05/10/17 12:10	05/16/17 02:24	1
MgHard	ND		4100	1200	ug/L		05/10/17 12:10	05/16/17 02:24	1
Nickel	ND		40	10	ug/L		05/10/17 12:10	05/16/17 02:24	1
Phosphorus	ND		250	75	ug/L		05/10/17 12:10	05/16/17 02:24	1
Selenium	ND		15	8.0	ug/L		05/10/17 12:10	05/16/17 02:24	1
Silver	ND		10	3.0	ug/L		05/10/17 12:10	05/16/17 02:24	1
Sodium	ND		1000	300	ug/L		05/10/17 12:10	05/16/17 02:24	1
Thallium	ND	^	20	5.0	ug/L		05/10/17 12:10	05/16/17 02:24	1
Total Hardness	ND		6600	2000	ug/L		05/10/17 12:10	05/16/17 02:24	1
Vanadium	ND		50	25	ug/L		05/10/17 12:10	05/16/17 02:24	1
Zinc	ND		20	6.0	ug/L		05/10/17 12:10	05/16/17 02:24	1

Lab Sample ID: LCS 160-308147/2-A
Matrix: Water
Analysis Batch: 308706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 308147

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	500	499		ug/L		100	80 - 120
Iron	10000	9680		ug/L		97	80 - 120
Arsenic	1000	1050		ug/L		105	80 - 120
Barium	1000	1030		ug/L		103	80 - 120
Beryllium	100	98.3		ug/L		98	80 - 120
Boron	200	196		ug/L		98	80 - 120
Cadmium	1000	1030		ug/L		103	80 - 120
Calcium	10000	10900		ug/L		109	80 - 120
Chromium	1000	1060		ug/L		106	80 - 120
Cobalt	1000	1080		ug/L		108	80 - 120
Copper	1000	1050		ug/L		105	80 - 120
Lead	1000	1110		ug/L		111	80 - 120
Magnesium	10000	9360		ug/L		94	80 - 120
Manganese	1000	950		ug/L		95	80 - 120
Nickel	1000	1100		ug/L		110	80 - 120
Phosphorus	1000	1150		ug/L		115	80 - 120
Selenium	500	500		ug/L		100	80 - 120

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

Lab Sample ID: LCS 160-308147/2-A
Matrix: Water
Analysis Batch: 308706

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 308147

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	200	211		ug/L		105	80 - 120
Sodium	10000	10200		ug/L		102	80 - 120
Thallium	200	223	^	ug/L		112	80 - 120
Vanadium	1000	999		ug/L		100	80 - 120
Zinc	1000	1040		ug/L		104	80 - 120

Lab Sample ID: 160-22240-A-9-B MS
Matrix: Water
Analysis Batch: 308706

Client Sample ID: Matrix Spike
Prep Type: Dissolved
Prep Batch: 308147

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		500	482		ug/L		96	75 - 125
Iron	ND		10000	9610		ug/L		96	75 - 125
Arsenic	5.5	J	1000	1030		ug/L		103	75 - 125
Barium	45	J	1000	1070		ug/L		102	75 - 125
Beryllium	ND		100	97.7		ug/L		98	75 - 125
Boron	42	J	200	229		ug/L		93	75 - 125
Cadmium	ND		1000	1000		ug/L		100	75 - 125
Calcium	47000		10000	55200	4	ug/L		85	75 - 125
Chromium	3.4	J	1000	1010		ug/L		101	75 - 125
Cobalt	ND		1000	1020		ug/L		102	75 - 125
Copper	ND		1000	1010		ug/L		101	75 - 125
Lead	15		1000	1070		ug/L		105	75 - 125
Magnesium	12000		10000	21300		ug/L		89	75 - 125
Manganese	ND		1000	929		ug/L		93	75 - 125
Nickel	ND		1000	1050		ug/L		105	75 - 125
Phosphorus	ND		1000	1160		ug/L		116	75 - 125
Selenium	ND		500	492		ug/L		98	75 - 125
Silver	ND		200	201		ug/L		100	75 - 125
Sodium	26000		10000	35600		ug/L		101	75 - 125
Thallium	ND	^	200	212	^	ug/L		106	75 - 125
Vanadium	ND		1000	1010		ug/L		101	75 - 125
Zinc	ND		1000	1020		ug/L		102	75 - 125

Lab Sample ID: 160-22240-A-9-C MSD
Matrix: Water
Analysis Batch: 308706

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 308147

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		500	507		ug/L		101	75 - 125	5	20
Iron	ND		10000	9820		ug/L		98	75 - 125	2	20
Arsenic	5.5	J	1000	1090		ug/L		109	75 - 125	6	20
Barium	45	J	1000	1080		ug/L		103	75 - 125	1	20
Beryllium	ND		100	99.2		ug/L		99	75 - 125	2	20
Boron	42	J	200	235		ug/L		96	75 - 125	3	20
Cadmium	ND		1000	1050		ug/L		105	75 - 125	5	20
Calcium	47000		10000	56900	4	ug/L		103	75 - 125	3	20
Chromium	3.4	J	1000	1060		ug/L		106	75 - 125	5	20
Cobalt	ND		1000	1070		ug/L		107	75 - 125	5	20

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

Lab Sample ID: 160-22240-A-9-C MSD
Matrix: Water
Analysis Batch: 308706

Client Sample ID: Matrix Spike Duplicate
Prep Type: Dissolved
Prep Batch: 308147

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Copper	ND		1000	1070		ug/L		107	75 - 125	6	20
Lead	15		1000	1110		ug/L		110	75 - 125	4	20
Magnesium	12000		10000	22100		ug/L		97	75 - 125	4	20
Manganese	ND		1000	949		ug/L		95	75 - 125	2	20
Nickel	ND		1000	1090		ug/L		109	75 - 125	4	20
Phosphorus	ND		1000	1220		ug/L		122	75 - 125	5	20
Selenium	ND		500	519		ug/L		104	75 - 125	5	20
Silver	ND		200	204		ug/L		102	75 - 125	1	20
Sodium	26000		10000	36000		ug/L		105	75 - 125	1	20
Thallium	ND	^	200	221	^	ug/L		111	75 - 125	4	20
Vanadium	ND		1000	1030		ug/L		103	75 - 125	2	20
Zinc	ND		1000	1070		ug/L		107	75 - 125	5	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 160-309789/1-A
Matrix: Water
Analysis Batch: 309862

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 309789

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		05/22/17 10:05	05/22/17 21:02	1

Lab Sample ID: LCS 160-309789/2-A
Matrix: Water
Analysis Batch: 309862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 309789

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			5.00	4.57		ug/L		91	80 - 120		

Lab Sample ID: 160-22211-I-8-C MS
Matrix: Water
Analysis Batch: 309862

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 309789

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	ND		5.00	4.11		ug/L		82	80 - 120		

Lab Sample ID: 160-22211-I-8-D MSD
Matrix: Water
Analysis Batch: 309862

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 309789

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		5.00	4.14		ug/L		83	80 - 120	1	20

Method: 160.1 - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 160-308371/1
Matrix: Water
Analysis Batch: 308371

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	ND		5.0	3.5	mg/L			05/12/17 08:05	1

Lab Sample ID: LCS 160-308371/2
Matrix: Water
Analysis Batch: 308371

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids (TDS)	500	508		mg/L		102	90 - 110

Lab Sample ID: 160-22238-3 DU
Matrix: Water
Analysis Batch: 308371

Client Sample ID: PZ-104-SD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids (TDS)	940		937		mg/L		0.3	5

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 160-311549/15
Matrix: Water
Analysis Batch: 311549

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		50	22	ug/L			05/31/17 23:12	1

Lab Sample ID: LCS 160-311549/16
Matrix: Water
Analysis Batch: 311549

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	500	458		ug/L		92	90 - 110

Lab Sample ID: 160-22238-2 MS
Matrix: Water
Analysis Batch: 311549

Client Sample ID: PZ-104-KS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	250	F1	500	839	F1	ug/L		118	90 - 110

Lab Sample ID: 160-22238-2 DU
Matrix: Water
Analysis Batch: 311549

Client Sample ID: PZ-104-KS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia	250	F1	254		ug/L		2	20

Method: 353.1 Preserved - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 160-310708/17
Matrix: Water
Analysis Batch: 310708

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		50	22	ug/L			05/25/17 16:38	1

Lab Sample ID: LCS 160-310708/18
Matrix: Water
Analysis Batch: 310708

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	500	516		ug/L		103	90 - 110

Lab Sample ID: 160-22238-2 MS
Matrix: Water
Analysis Batch: 310708

Client Sample ID: PZ-104-KS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	ND	F1	500	23.7	J F1	ug/L		5	90 - 110

Lab Sample ID: 160-22238-2 DU
Matrix: Water
Analysis Batch: 310708

Client Sample ID: PZ-104-KS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	ND	F1	ND		ug/L		NC	20

Method: 410.4 - COD

Lab Sample ID: MB 160-311005/3-A
Matrix: Water
Analysis Batch: 311134

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 311005

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		5.0	2.4	mg/L		05/30/17 08:15	05/30/17 14:00	1

Lab Sample ID: LCS 160-311005/4-A
Matrix: Water
Analysis Batch: 311134

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 311005

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	50.0	50.0		mg/L		100	90 - 110

Lab Sample ID: 160-22238-5 MS
Matrix: Water
Analysis Batch: 311134

Client Sample ID: PZ-116-SS
Prep Type: Total/NA
Prep Batch: 311005

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	ND		50.0	53.0		mg/L		106	90 - 110

Method: 410.4 - COD (Continued)

Lab Sample ID: 160-22211-E-2-B DU
Matrix: Water
Analysis Batch: 311134

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 311005

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chemical Oxygen Demand	3.0	J		3.00	J	mg/L				0	20

Method: 415.1 - TOC

Lab Sample ID: MB 160-310102/27
Matrix: Water
Analysis Batch: 310102

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	ND		1.0	0.72	mg/L			05/22/17 21:22	1

Lab Sample ID: LCS 160-310102/28
Matrix: Water
Analysis Batch: 310102

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			10.0	10.3		mg/L		103	90 - 110		

Lab Sample ID: 160-22238-8 MS
Matrix: Water
Analysis Batch: 310102

Client Sample ID: DUPI 050817
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon	1.1		5.00	6.31		mg/L		105	76 - 120		

Method: 415.1 - TOC - DL

Lab Sample ID: 160-22211-D-1 MS ^5
Matrix: Water
Analysis Batch: 310102

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon - DL	18		25.0	45.1		mg/L		108	76 - 120		

Lab Sample ID: 160-22211-D-1 DU ^5
Matrix: Water
Analysis Batch: 310102

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Organic Carbon - DL	18			18.0		mg/L				0.2	20

Method: 906.0 - Tritium, Total (LSC)

Lab Sample ID: MB 160-310832/1-A
Matrix: Water
Analysis Batch: 311302

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 310832

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-38.74	U	148	148	500	274	pCi/L	05/26/17 08:52	05/30/17 10:13	1

Lab Sample ID: LCS 160-310832/2-A
Matrix: Water
Analysis Batch: 311302

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 310832

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Tritium			2900	2982		442	500	284	pCi/L	103	74 - 114		

Lab Sample ID: 160-22450-A-1-B MS
Matrix: Water
Analysis Batch: 311302

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 310832

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Tritium	532		2890	3216		448	500	258	pCi/L	93	67 - 130		

Lab Sample ID: 160-22449-A-1-B DU
Matrix: Water
Analysis Batch: 311302

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 310832

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Tritium	27.5	U		26.58	U	150	500	262	pCi/L			0	1

Lab Sample ID: MB 160-311550/1-A
Matrix: Water
Analysis Batch: 311714

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 311550

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-9.459	U	144	144	500	262	pCi/L	06/01/17 12:29	06/01/17 17:47	1

Lab Sample ID: LCS 160-311550/2-A
Matrix: Water
Analysis Batch: 311714

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 311550

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Tritium			2900	2870		418	500	261	pCi/L	99	74 - 114		

Method: 906.0 - Tritium, Total (LSC) (Continued)

Lab Sample ID: 160-22264-H-3-B MS
Matrix: Water
Analysis Batch: 311714

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 311550

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Tritium	-5.86	U	2900	2722		413	500	276	pCi/L	94	67 - 130		

Lab Sample ID: 160-22264-H-2-B DU
Matrix: Water
Analysis Batch: 311714

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 311550

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Tritium	5520			5208		629	500	263	pCi/L			0.24	1

GC/MS VOA

Analysis Batch: 308482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22238-1	TRIPBLANK	Total/NA	Water	8260C	
160-22238-2	PZ-104-KS	Total/NA	Water	8260C	
160-22238-3	PZ-104-SD	Total/NA	Water	8260C	
160-22238-4	PZ-104-SS	Total/NA	Water	8260C	
160-22238-5	PZ-116-SS	Total/NA	Water	8260C	
MB 160-308482/7	Method Blank	Total/NA	Water	8260C	
LCS 160-308482/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 160-308482/5	Lab Control Sample Dup	Total/NA	Water	8260C	
160-22211-A-1 MS	Matrix Spike	Total/NA	Water	8260C	
160-22211-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

Analysis Batch: 308591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22238-3 - DL	PZ-104-SD	Total/NA	Water	8260C	
160-22238-6	PZ-205-AS	Total/NA	Water	8260C	
160-22238-7	PZ-107-SS	Total/NA	Water	8260C	
160-22238-8	DUPI 050817	Total/NA	Water	8260C	
MB 160-308591/23	Method Blank	Total/NA	Water	8260C	
LCS 160-308591/20	Lab Control Sample	Total/NA	Water	8260C	
LCSD 160-308591/21	Lab Control Sample Dup	Total/NA	Water	8260C	
160-22238-8 MS	DUPI 050817	Total/NA	Water	8260C	
160-22238-8 MSD	DUPI 050817	Total/NA	Water	8260C	

Analysis Batch: 309165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22238-6	PZ-205-AS	Total/NA	Water	8260C	
MB 160-309165/7	Method Blank	Total/NA	Water	8260C	
LCS 160-309165/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 160-309165/5	Lab Control Sample Dup	Total/NA	Water	8260C	
160-22264-A-2 MS	Matrix Spike	Total/NA	Water	8260C	
160-22264-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 307816

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22238-2	PZ-104-KS	Total/NA	Water	300.0	
160-22238-3 - DL	PZ-104-SD	Total/NA	Water	300.0	
160-22238-4	PZ-104-SS	Total/NA	Water	300.0	
160-22238-5	PZ-116-SS	Total/NA	Water	300.0	
160-22238-6 - DL	PZ-205-AS	Total/NA	Water	300.0	
160-22238-7 - DL	PZ-107-SS	Total/NA	Water	300.0	
160-22238-8	DUPI 050817	Total/NA	Water	300.0	
MB 160-307816/3	Method Blank	Total/NA	Water	300.0	
LCS 160-307816/4	Lab Control Sample	Total/NA	Water	300.0	
160-22211-G-1 MS	Matrix Spike	Total/NA	Water	300.0	
160-22211-G-1 DU	Duplicate	Total/NA	Water	300.0	

HPLC/IC (Continued)

Analysis Batch: 307867

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22238-2 - DL	PZ-104-KS	Total/NA	Water	300.0	
160-22238-3 - DL	PZ-104-SD	Total/NA	Water	300.0	
160-22238-4 - DL	PZ-104-SS	Total/NA	Water	300.0	
160-22238-5 - DL	PZ-116-SS	Total/NA	Water	300.0	
160-22238-6 - DL	PZ-205-AS	Total/NA	Water	300.0	
160-22238-7 - DL	PZ-107-SS	Total/NA	Water	300.0	
160-22238-8 - DL	DUPI 050817	Total/NA	Water	300.0	
MB 160-307867/9	Method Blank	Total/NA	Water	300.0	
LCS 160-307867/10	Lab Control Sample	Total/NA	Water	300.0	
160-22211-G-1 MS - DL	Matrix Spike	Total/NA	Water	300.0	
160-22238-8 MS - DL	DUPI 050817	Total/NA	Water	300.0	
160-22211-G-1 DU - DL	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 312598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22238-2 - DL	PZ-104-KS	Total/NA	Water	300.0	
160-22238-3 - DL	PZ-104-SD	Total/NA	Water	300.0	
160-22238-4 - DL	PZ-104-SS	Total/NA	Water	300.0	
160-22238-5 - DL	PZ-116-SS	Total/NA	Water	300.0	
160-22238-6 - DL	PZ-205-AS	Total/NA	Water	300.0	
160-22238-7 - DL	PZ-107-SS	Total/NA	Water	300.0	
160-22238-8 - DL	DUPI 050817	Total/NA	Water	300.0	
MB 160-312598/159	Method Blank	Total/NA	Water	300.0	
LCS 160-312598/160	Lab Control Sample	Total/NA	Water	300.0	
160-22791-A-1 MS - DL	Matrix Spike	Total/NA	Water	300.0	
160-22238-2 DU - DL	PZ-104-KS	Total/NA	Water	300.0	

Metals

Prep Batch: 308147

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22238-2	PZ-104-KS	Total/NA	Water	3010A	
160-22238-3	PZ-104-SD	Total/NA	Water	3010A	
160-22238-4	PZ-104-SS	Total/NA	Water	3010A	
160-22238-5	PZ-116-SS	Total/NA	Water	3010A	
160-22238-6	PZ-205-AS	Total/NA	Water	3010A	
160-22238-7	PZ-107-SS	Total/NA	Water	3010A	
160-22238-8	DUPI 050817	Total/NA	Water	3010A	
MB 160-308147/1-A	Method Blank	Total/NA	Water	3010A	
LCS 160-308147/2-A	Lab Control Sample	Total/NA	Water	3010A	
160-22240-A-9-B MS	Matrix Spike	Dissolved	Water	3010A	
160-22240-A-9-C MSD	Matrix Spike Duplicate	Dissolved	Water	3010A	

Analysis Batch: 308706

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22238-2	PZ-104-KS	Total/NA	Water	6010C	308147
160-22238-3	PZ-104-SD	Total/NA	Water	6010C	308147
160-22238-4	PZ-104-SS	Total/NA	Water	6010C	308147
160-22238-5	PZ-116-SS	Total/NA	Water	6010C	308147
160-22238-6	PZ-205-AS	Total/NA	Water	6010C	308147

Metals (Continued)

Analysis Batch: 308706 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22238-7	PZ-107-SS	Total/NA	Water	6010C	308147
160-22238-8	DUPI 050817	Total/NA	Water	6010C	308147
MB 160-308147/1-A	Method Blank	Total/NA	Water	6010C	308147
LCS 160-308147/2-A	Lab Control Sample	Total/NA	Water	6010C	308147
160-22240-A-9-B MS	Matrix Spike	Dissolved	Water	6010C	308147
160-22240-A-9-C MSD	Matrix Spike Duplicate	Dissolved	Water	6010C	308147

Prep Batch: 309789

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22238-2	PZ-104-KS	Total/NA	Water	7470A	
160-22238-3	PZ-104-SD	Total/NA	Water	7470A	
160-22238-4	PZ-104-SS	Total/NA	Water	7470A	
160-22238-5	PZ-116-SS	Total/NA	Water	7470A	
160-22238-6	PZ-205-AS	Total/NA	Water	7470A	
160-22238-7	PZ-107-SS	Total/NA	Water	7470A	
160-22238-8	DUPI 050817	Total/NA	Water	7470A	
MB 160-309789/1-A	Method Blank	Total/NA	Water	7470A	
LCS 160-309789/2-A	Lab Control Sample	Total/NA	Water	7470A	
160-22211-I-8-C MS	Matrix Spike	Total/NA	Water	7470A	
160-22211-I-8-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 309862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22238-2	PZ-104-KS	Total/NA	Water	7470A	309789
160-22238-3	PZ-104-SD	Total/NA	Water	7470A	309789
160-22238-4	PZ-104-SS	Total/NA	Water	7470A	309789
160-22238-5	PZ-116-SS	Total/NA	Water	7470A	309789
160-22238-6	PZ-205-AS	Total/NA	Water	7470A	309789
160-22238-7	PZ-107-SS	Total/NA	Water	7470A	309789
160-22238-8	DUPI 050817	Total/NA	Water	7470A	309789
MB 160-309789/1-A	Method Blank	Total/NA	Water	7470A	309789
LCS 160-309789/2-A	Lab Control Sample	Total/NA	Water	7470A	309789
160-22211-I-8-C MS	Matrix Spike	Total/NA	Water	7470A	309789
160-22211-I-8-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	309789

Analysis Batch: 312045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22238-3	PZ-104-SD	Total/NA	Water	6010C	308147
160-22238-6	PZ-205-AS	Total/NA	Water	6010C	308147
160-22238-6	PZ-205-AS	Total/NA	Water	6010C	308147
160-22238-7	PZ-107-SS	Total/NA	Water	6010C	308147
160-22238-7	PZ-107-SS	Total/NA	Water	6010C	308147
160-22238-8	DUPI 050817	Total/NA	Water	6010C	308147

Analysis Batch: 312346

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22238-6	PZ-205-AS	Total/NA	Water	6010C	308147

General Chemistry

Analysis Batch: 308371

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22238-2	PZ-104-KS	Total/NA	Water	160.1	
160-22238-3	PZ-104-SD	Total/NA	Water	160.1	
160-22238-4	PZ-104-SS	Total/NA	Water	160.1	
160-22238-5	PZ-116-SS	Total/NA	Water	160.1	
160-22238-6	PZ-205-AS	Total/NA	Water	160.1	
160-22238-7	PZ-107-SS	Total/NA	Water	160.1	
160-22238-8	DUPI 050817	Total/NA	Water	160.1	
MB 160-308371/1	Method Blank	Total/NA	Water	160.1	
LCS 160-308371/2	Lab Control Sample	Total/NA	Water	160.1	
160-22238-3 DU	PZ-104-SD	Total/NA	Water	160.1	

Analysis Batch: 310102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22238-2	PZ-104-KS	Total/NA	Water	415.1	
160-22238-3 - DL	PZ-104-SD	Total/NA	Water	415.1	
160-22238-4	PZ-104-SS	Total/NA	Water	415.1	
160-22238-5	PZ-116-SS	Total/NA	Water	415.1	
160-22238-6 - DL	PZ-205-AS	Total/NA	Water	415.1	
160-22238-7 - DL	PZ-107-SS	Total/NA	Water	415.1	
160-22238-8	DUPI 050817	Total/NA	Water	415.1	
MB 160-310102/27	Method Blank	Total/NA	Water	415.1	
LCS 160-310102/28	Lab Control Sample	Total/NA	Water	415.1	
160-22211-D-1 MS ^5 - DL	Matrix Spike	Total/NA	Water	415.1	
160-22238-8 MS	DUPI 050817	Total/NA	Water	415.1	
160-22211-D-1 DU ^5 - DL	Duplicate	Total/NA	Water	415.1	

Analysis Batch: 310708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22238-2	PZ-104-KS	Total/NA	Water	353.1 Preserved	
160-22238-3	PZ-104-SD	Total/NA	Water	353.1 Preserved	
160-22238-4	PZ-104-SS	Total/NA	Water	353.1 Preserved	
160-22238-5	PZ-116-SS	Total/NA	Water	353.1 Preserved	
160-22238-6	PZ-205-AS	Total/NA	Water	353.1 Preserved	
160-22238-7	PZ-107-SS	Total/NA	Water	353.1 Preserved	
160-22238-8	DUPI 050817	Total/NA	Water	353.1 Preserved	
MB 160-310708/17	Method Blank	Total/NA	Water	353.1 Preserved	
LCS 160-310708/18	Lab Control Sample	Total/NA	Water	353.1 Preserved	
160-22238-2 MS	PZ-104-KS	Total/NA	Water	353.1 Preserved	
160-22238-2 DU	PZ-104-KS	Total/NA	Water	353.1 Preserved	

Prep Batch: 311005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22238-2	PZ-104-KS	Total/NA	Water	410.4	
160-22238-3 - DL	PZ-104-SD	Total/NA	Water	410.4	
160-22238-4	PZ-104-SS	Total/NA	Water	410.4	
160-22238-5	PZ-116-SS	Total/NA	Water	410.4	
160-22238-6 - DL	PZ-205-AS	Total/NA	Water	410.4	
160-22238-7 - DL	PZ-107-SS	Total/NA	Water	410.4	
160-22238-8	DUPI 050817	Total/NA	Water	410.4	
MB 160-311005/3-A	Method Blank	Total/NA	Water	410.4	
LCS 160-311005/4-A	Lab Control Sample	Total/NA	Water	410.4	

General Chemistry (Continued)

Prep Batch: 311005 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22238-5 MS	PZ-116-SS	Total/NA	Water	410.4	
160-22211-E-2-B DU	Duplicate	Total/NA	Water	410.4	

Analysis Batch: 311134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22238-2	PZ-104-KS	Total/NA	Water	410.4	311005
160-22238-3 - DL	PZ-104-SD	Total/NA	Water	410.4	311005
160-22238-4	PZ-104-SS	Total/NA	Water	410.4	311005
160-22238-5	PZ-116-SS	Total/NA	Water	410.4	311005
160-22238-6 - DL	PZ-205-AS	Total/NA	Water	410.4	311005
160-22238-7 - DL	PZ-107-SS	Total/NA	Water	410.4	311005
160-22238-8	DUPI 050817	Total/NA	Water	410.4	311005
MB 160-311005/3-A	Method Blank	Total/NA	Water	410.4	311005
LCS 160-311005/4-A	Lab Control Sample	Total/NA	Water	410.4	311005
160-22238-5 MS	PZ-116-SS	Total/NA	Water	410.4	311005
160-22211-E-2-B DU	Duplicate	Total/NA	Water	410.4	311005

Analysis Batch: 311549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22238-2	PZ-104-KS	Total/NA	Water	350.1	
160-22238-3 - DL	PZ-104-SD	Total/NA	Water	350.1	
160-22238-4	PZ-104-SS	Total/NA	Water	350.1	
160-22238-5	PZ-116-SS	Total/NA	Water	350.1	
160-22238-6 - DL	PZ-205-AS	Total/NA	Water	350.1	
160-22238-7 - DL	PZ-107-SS	Total/NA	Water	350.1	
160-22238-8	DUPI 050817	Total/NA	Water	350.1	
MB 160-311549/15	Method Blank	Total/NA	Water	350.1	
LCS 160-311549/16	Lab Control Sample	Total/NA	Water	350.1	
160-22238-2 MS	PZ-104-KS	Total/NA	Water	350.1	
160-22238-2 DU	PZ-104-KS	Total/NA	Water	350.1	

Rad

Prep Batch: 310832

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22238-2	PZ-104-KS	Total/NA	Water	LSC_Dist_Susp	
160-22238-3	PZ-104-SD	Total/NA	Water	LSC_Dist_Susp	
160-22238-4	PZ-104-SS	Total/NA	Water	LSC_Dist_Susp	
160-22238-5	PZ-116-SS	Total/NA	Water	LSC_Dist_Susp	
160-22238-6	PZ-205-AS	Total/NA	Water	LSC_Dist_Susp	
160-22238-7	PZ-107-SS	Total/NA	Water	LSC_Dist_Susp	
MB 160-310832/1-A	Method Blank	Total/NA	Water	LSC_Dist_Susp	
LCS 160-310832/2-A	Lab Control Sample	Total/NA	Water	LSC_Dist_Susp	
160-22450-A-1-B MS	Matrix Spike	Total/NA	Water	LSC_Dist_Susp	
160-22449-A-1-B DU	Duplicate	Total/NA	Water	LSC_Dist_Susp	

Prep Batch: 311550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22238-8	DUPI 050817	Total/NA	Water	LSC_Dist_Susp	
MB 160-311550/1-A	Method Blank	Total/NA	Water	LSC_Dist_Susp	

Rad (Continued)

Prep Batch: 311550 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 160-311550/2-A	Lab Control Sample	Total/NA	Water	LSC_Dist_Susp	
160-22264-H-3-B MS	Matrix Spike	Total/NA	Water	LSC_Dist_Susp	
160-22264-H-2-B DU	Duplicate	Total/NA	Water	LSC_Dist_Susp	

Surrogate Summary

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22238-1

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	12DCE	TOL
Lab Sample ID	Client Sample ID	(71-139)	(80-121)	(76-121)	(80-129)
160-22211-A-1 MS	Matrix Spike	98	91	91	93
160-22211-A-1 MSD	Matrix Spike Duplicate	102	93	93	94
160-22238-1	TRIPBLANK	101	103	105	99
160-22238-2	PZ-104-KS	94	100	104	95
160-22238-3	PZ-104-SD	102	105	101	98
160-22238-3 - DL	PZ-104-SD	100	101	94	98
160-22238-4	PZ-104-SS	99	101	99	97
160-22238-5	PZ-116-SS	95	99	101	95
160-22238-6	PZ-205-AS	106	93	99	99
160-22238-6	PZ-205-AS	106	101	104	101
160-22238-7	PZ-107-SS	98	100	98	97
160-22238-8	DUPI 050817	100	100	100	98
160-22238-8 MS	DUPI 050817	102	94	94	96
160-22238-8 MSD	DUPI 050817	103	92	90	97
160-22264-A-2 MS	Matrix Spike	100	97	101	98
160-22264-A-2 MSD	Matrix Spike Duplicate	101	96	97	99
LCS 160-308482/4	Lab Control Sample	98	94	92	99
LCS 160-308591/20	Lab Control Sample	104	94	95	100
LCS 160-309165/4	Lab Control Sample	104	100	105	102
LCSD 160-308482/5	Lab Control Sample Dup	103	94	90	100
LCSD 160-308591/21	Lab Control Sample Dup	104	95	91	99
LCSD 160-309165/5	Lab Control Sample Dup	104	99	102	101
MB 160-308482/7	Method Blank	95	96	93	97
MB 160-308591/23	Method Blank	100	101	101	100
MB 160-309165/7	Method Blank	99	103	107	98

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
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TestAmerica Job ID: 160-22264-1
Client Project/Site: Groundwater -2nd Quarter Sampling Event

For:
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Attn: Brenna McDonald

Authorized for release by:
6/14/2017 5:39:31 AM

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 160-22264-1

Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

Client: Missouri Attorney General's Office

Project: Groundwater - 2nd Quarter 2017 Sampling Event

Report Number: 160-22264-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica St. Louis attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results for Chemistry analyses are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header. All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy unless requested as wet weight by the client.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 05/10/2017; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 3.6º C and 5.8º C.

VOLATILE ORGANIC COMPOUNDS (GC MS)

Samples TRIP BLANK (160-22264-1), PZ-101-SS (160-22264-2), PZ-102R-SS (160-22264-3), PZ-103-SS (160-22264-4), PZ-113-SS (160-22264-5), PZ-113-AD (160-22264-6), PZ-113-AS (160-22264-7), PZ-112-AS (160-22264-8), MW-12OU (160-22264-9), I-73 (160-22264-10), PZ-203-SS (160-22264-11), PZ-302-AS (160-22264-12) and PZ-302-AI (160-22264-13) were analyzed for volatile organic compounds (GC MS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 05/17/2017, 05/18/2017, 05/19/2017 and 05/22/2017.

The following compounds did not meet the minimum relative response factor limits in the continuing calibration verification (CCV) associated with batch 160-309165: Acetone and 2-Butanone (MEK). A low-level LOQV was analyzed at the reporting limit (5ug/L) and the affected analytes were detected. Target analytes recovering above the reporting limit will be qualified and reported. (CCVIS 160-309165/3)

The continuing calibration verification (CCV) associated with batch 160-309165 recovered above the upper control limit for Methyl bromide. The samples associated with this CCV were non-detects for the affected analyte; therefore, the data have been reported. (CCVIS

Job ID: 160-22264-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

160-309165/3)

According to the COC, the following samples in batch 160-309165 were presumed to be preserved to a pH < 2: PZ-103-SS (160-22264-4) and PZ-113-AD (160-22264-6). Due to the potential loss of volatile constituents, VOA vials are not checked for pH preservation until the time of analysis. Sample pH was not less than 2. Sample was analyzed outside the 7 day, unpreserved, holding time.

The following volatile samples in batch 160-309165 were analyzed with significant headspace in the sample vial: PZ-101-SS (160-22264-2), PZ-102R-SS (160-22264-3), PZ-103-SS (160-22264-4), PZ-113-SS (160-22264-5), PZ-113-AD (160-22264-6), PZ-113-AS (160-22264-7), PZ-112-AS (160-22264-8) and PZ-203-SS (160-22264-11). Significant headspace is defined as a bubble greater than 6 mm in diameter.

The continuing calibration verification (CCV) associated with batch 160-309388 recovered above the upper control limit for Methyl bromide, Methyl chloride, Vinyl chloride and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. (CCVIS 160-309388/3)

The following compounds did not meet the minimum relative response factor limits in the continuing calibration verification (CCV) associated with batch 160-309388: Acetone and 2-Butanone (MEK). A low-level LOQV was analyzed at the reporting limit (5ug/L) and the affected analytes were detected. Target analytes recovering above the reporting limit will be qualified and reported. (CCVIS 160-309388/3)

The following samples in batch 160-309388 were analyzed at reduced volume due to high concentrations of target analytes: PZ-112-AS (160-22264-8), MW-12OU (160-22264-9) and I-73 (160-22264-10). The reporting limits have been elevated by the appropriate factor.

According to the COC, the following samples in batch 160-309388 were presumed to be preserved to a pH < 2: MW-12OU (160-22264-9) and I-73 (160-22264-10). Due to the potential loss of volatile constituents, VOA vials are not checked for pH preservation until the time of analysis. Sample pH was not less than 2. Sample was analyzed outside the 7 day, unpreserved, holding time.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 160-309388 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control samples' (LCS/LCSD) recoveries were within acceptance limits. (160-22310-A-6 MS)

Surrogate Dibromofluoromethane (Surr) recovery for the following sample in batch 160-309388 was outside the upper control limit: MW-12OU (160-22264-9). This sample did not contain any target analytes above the Reporting Limit that are associated with the affected surrogate; therefore, re-analysis was not performed.

The following sample in analytical batch 160-309845 was analyzed at reduced volume due to high concentrations of target analytes: PZ-113-AS (160-22264-7). The reporting limits have been elevated by the appropriate factor.

The continuing calibration verification (CCV) associated with batch 160-309845 recovered outside acceptance criteria, low biased, for Trichlorofluoromethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. (CCVIS 160-309845/2)

The following compounds did not meet the minimum relative response factor limits in the continuing calibration verification (CCV) associated with batch 160-309845: Acetone and 2-Butanone (MEK). A low-level LOQV was analyzed at the reporting limit (5ug/L) and the affected analytes were detected. Target analytes recovering above the reporting limit will be qualified and reported. (CCVIS 160-309845/2)

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

TOTAL METALS (ICP)

Samples PZ-101-SS (160-22264-2), PZ-102R-SS (160-22264-3), PZ-103-SS (160-22264-4), PZ-113-SS (160-22264-5), PZ-113-AD (160-22264-6), PZ-113-AS (160-22264-7), PZ-112-AS (160-22264-8), MW-12OU (160-22264-9), I-73 (160-22264-10), PZ-203-SS (160-22264-11), PZ-302-AS (160-22264-12) and PZ-302-AI (160-22264-13) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 05/15/2017 and analyzed on 05/18/2017.

Due to the high concentration of Calcium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 160-308583 and analytical batch 160-309592 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met

Job ID: 160-22264-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

acceptance criteria. (160-22264-I-2-B MS ^) and (160-22264-I-2-C MSD)

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for preparation batch 160-308583 and analytical batch 160-309592 were outside control limits for Phosphorous. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits. (160-22264-I-2-B MS ^) and (160-22264-I-2-C MSD)

The following samples in preparation batch 160-308583 and analytical batch 160-309592 were diluted either to bring the concentration of target analytes within the calibration range or due to samples being high in salts which can cause instrument and QC failures when ran at a lesser dilution: PZ-101-SS (160-22264-2), PZ-102R-SS (160-22264-3), PZ-103-SS (160-22264-4), PZ-113-SS (160-22264-5), PZ-113-AD (160-22264-6), PZ-113-AS (160-22264-7), PZ-112-AS (160-22264-8), MW-12OU (160-22264-9), I-73 (160-22264-10), PZ-203-SS (160-22264-11), PZ-302-AS (160-22264-12), PZ-302-AI (160-22264-13), (160-22264-I-2-B MS ^), (160-22264-I-2-C MSD) and (160-22264-I-2-A SD ^). 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.

TOTAL MERCURY

Samples PZ-101-SS (160-22264-2), PZ-102R-SS (160-22264-3), PZ-103-SS (160-22264-4), PZ-113-SS (160-22264-5), PZ-113-AD (160-22264-6), PZ-113-AS (160-22264-7), PZ-112-AS (160-22264-8), MW-12OU (160-22264-9), I-73 (160-22264-10), PZ-203-SS (160-22264-11), PZ-302-AS (160-22264-12) and PZ-302-AI (160-22264-13) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 06/05/2017.

The samples associated with preparation batch 160-311948 were observed after adding potassium permanganate for 15 minutes and the samples did retained color; however, other samples prepped in the same run had reduced. Due to this issue, an equivalent portion of permanganate solution was added to all QC and client samples in the same run. PZ-101-SS (160-22264-2), PZ-102R-SS (160-22264-3), PZ-103-SS (160-22264-4), PZ-113-SS (160-22264-5), PZ-113-AD (160-22264-6), PZ-113-AS (160-22264-7), PZ-112-AS (160-22264-8), MW-12OU (160-22264-9), I-73 (160-22264-10), PZ-203-SS (160-22264-11), PZ-302-AS (160-22264-12), PZ-302-AI (160-22264-13), (160-22264-I-3 MS) and (160-22264-I-3 MSD)

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

TOTAL DISSOLVED SOLIDS

Samples PZ-101-SS (160-22264-2), PZ-102R-SS (160-22264-3), PZ-103-SS (160-22264-4), PZ-113-SS (160-22264-5), PZ-113-AD (160-22264-6), PZ-113-AS (160-22264-7), PZ-112-AS (160-22264-8), MW-12OU (160-22264-9), I-73 (160-22264-10), PZ-203-SS (160-22264-11), PZ-302-AS (160-22264-12) and PZ-302-AI (160-22264-13) were analyzed for total dissolved solids in accordance with EPA Method 160.1. The samples were analyzed on 05/15/2017 and 05/16/2017.

The sample volume was reduced for the following samples in TDS batch 160- 308494 to meet the method requirement of less than 200 mg dried weight remaining after evaporation. PZ-101-SS (160-22264-2), PZ-103-SS (160-22264-4), PZ-113-AD (160-22264-6) and PZ-112-AS (160-22264-8)

The sample volume was reduced for the following samples in TDS batch 160-308609 to meet the method requirement of less than 200 mg dried weight remaining after evaporation. MW-12OU (160-22264-9) and (160-22264-F-9 DU) Elevated reporting limits (RLs) are provided.

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

ANIONS, ION CHROMATOGRAPHY

Samples PZ-101-SS (160-22264-2), PZ-102R-SS (160-22264-3), PZ-103-SS (160-22264-4), PZ-113-SS (160-22264-5), PZ-113-AD (160-22264-6), PZ-113-AS (160-22264-7), PZ-112-AS (160-22264-8), MW-12OU (160-22264-9), I-73 (160-22264-10), PZ-203-SS (160-22264-11), PZ-302-AS (160-22264-12) and PZ-302-AI (160-22264-13) were analyzed for Anions, Ion Chromatography in accordance with EPA Method 300.0. The samples were analyzed on 05/15/2017, 05/16/2017, 05/17/2017, 06/02/2017, 06/06/2017, 06/07/2017 and 06/08/2017.

The following samples in Iodide batch 160-308557 are associated with a laboratory control sample (LCS) that recovered above the upper control limit of 110% (111%): PZ-102R-SS (160-22264-3), PZ-103-SS (160-22264-4), PZ-113-SS (160-22264-5), PZ-113-AD

Job ID: 160-22264-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

(160-22264-6), PZ-113-AS (160-22264-7), PZ-112-AS (160-22264-8), MW-12OU (160-22264-9), I-73 (160-22264-10), PZ-203-SS (160-22264-11), PZ-302-AS (160-22264-12) and PZ-302-AI (160-22264-13). However, these samples all have Iodide results below the reporting limit (RL), and thus were not significantly affected by the high bias found in the LCS. Results are reported with this narrative.

The following samples in Iodide batch 160-308557 are bracketed by an ending continuing calibration verification (CCV) that recovered above the upper control limit of 110%: MW-12OU (160-22264-9), I-73 (160-22264-10), PZ-203-SS (160-22264-11), PZ-302-AS (160-22264-12) and PZ-302-AI (160-22264-13). However, these samples all have Iodide results below the reporting limit (RL), and thus were not significantly affected by the high bias found in the ending CCV. Results are reported with this narrative.

The following samples in Iodide batch 160-308557 were analyzed at dilution to start (2x) due to high sample conductivities that made undiluted analysis inadvisable: MW-12OU (160-22264-9) and I-73 (160-22264-10). These samples have Iodide results below the adjusted reporting limit (RL) at the initial dilution.

The following samples in Anion batch 160-308845 were diluted to bring the concentrations of Chloride within the calibration range: PZ-101-SS (160-22264-2), PZ-102R-SS (160-22264-3), PZ-103-SS (160-22264-4), PZ-113-SS (160-22264-5), PZ-113-AD (160-22264-6), PZ-113-AS (160-22264-7), PZ-112-AS (160-22264-8), MW-12OU (160-22264-9), I-73 (160-22264-10), PZ-203-SS (160-22264-11), PZ-302-AS (160-22264-12) and PZ-302-AI (160-22264-13). Elevated reporting limits (RLs) are provided.

The following samples in Anion batch 160-312151 were diluted to bring the concentration of target analytes within the calibration range: PZ-101-SS (160-22264-2), PZ-102R-SS (160-22264-3), PZ-113-SS (160-22264-5) and PZ-203-SS (160-22264-11). Elevated reporting limits (RLs) are provided.

The following matrix spike (MS) recovery for Sulfate was outside control limits (120%) in Anion batch 160-312151: (160-22264-F-13 MS). Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

The following sample, re-analyzed in Anion batch 160-312151 for Fluoride and Sulfate, injected 27 minutes after its 28 day holding time had expired: PZ-112-AS (160-22264-8). All other samples in this job were analyzed within hold for all anions.
The sample was analyzed within two times hold.

The following samples in Anion batch 160-312598 were were analyzed at dilution to start due to high sample conductivities that made undiluted analysis inadvisable: PZ-101-SS (160-22264-2). As a result, some samples have anion results that are non-detect (ND) (below the adjusted RL) at the initial dilution.

The following sample in Anion batch 160-312598 was re-analyzed out of 28 day holding time for Sulfate due to previous in-hold runs for Chloride and Fluoride being analyzed at too high of a dilution to report Sulfate within the calibration range: PZ-101-SS (160-22264-2). This out of hold result for Sulfate confirms the non-reported, over-diluted results for Sulfate observed in the previous in-hold runs.

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

AMMONIA

Samples PZ-101-SS (160-22264-2), PZ-102R-SS (160-22264-3), PZ-103-SS (160-22264-4), PZ-113-SS (160-22264-5), PZ-113-AD (160-22264-6), PZ-113-AS (160-22264-7), PZ-112-AS (160-22264-8), MW-12OU (160-22264-9), I-73 (160-22264-10), PZ-203-SS (160-22264-11), PZ-302-AS (160-22264-12) and PZ-302-AI (160-22264-13) were analyzed for ammonia in accordance with EPA Method 350.1. The samples were analyzed on 05/31/2017, 06/01/2017 and 06/06/2017.

The following samples in Ammonia analytical batch 160-311549 were diluted to bring the concentration of the target analyte within the calibration range: PZ-101-SS (160-22264-2), PZ-113-AD (160-22264-6), PZ-113-AS (160-22264-7), PZ-112-AS (160-22264-8), MW-12OU (160-22264-9) and I-73 (160-22264-10). Elevated reporting limits (RLs) are provided.

The following matrix spike (MS) recoveries for Ammonia analytical batch 160-311549 were outside control limits: (160-22238-D-2 MS) and (160-22264-D-2 MS ^20). Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

The following matrix spike (MS) recovery for Ammonia analytical batch 160-312154 was outside control limits: (160-22264-D-12 MS). Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

Job ID: 160-22264-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

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

NITROGEN, NITRATE-NITRITE

Samples PZ-101-SS (160-22264-2), PZ-102R-SS (160-22264-3), PZ-103-SS (160-22264-4), PZ-113-SS (160-22264-5), PZ-113-AD (160-22264-6), PZ-113-AS (160-22264-7), PZ-112-AS (160-22264-8), MW-12OU (160-22264-9), I-73 (160-22264-10), PZ-203-SS (160-22264-11), PZ-302-AS (160-22264-12) and PZ-302-AI (160-22264-13) were analyzed for Nitrogen, Nitrate-Nitrite in accordance with Method 353.1 Preserved. The samples were analyzed on 05/25/2017 and 06/06/2017.

Nitrate Nitrite as N in analytical batch 160-312153 was detected in method blank MB 160-312153/13 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

The following matrix spike (MS) recoveries for Nitrate-Nitrite analytical batch 160-310708 were outside control limits: (160-22238-D-2 MS) and (160-22264-D-2 MS). Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits, as well as the historical poor performance of matrix spikes from this client.

The following matrix spike (MS) recoveries for Nitrate-Nitrite analytical batch 160-312153 were outside control limits: (160-22264-D-12 MS). Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits, as well as the historical poor performance of matrix spikes from this client.

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

CHEMICAL OXYGEN DEMAND

Samples PZ-101-SS (160-22264-2), PZ-102R-SS (160-22264-3), PZ-103-SS (160-22264-4), PZ-113-SS (160-22264-5), PZ-113-AD (160-22264-6), PZ-113-AS (160-22264-7), PZ-112-AS (160-22264-8), MW-12OU (160-22264-9), I-73 (160-22264-10), PZ-203-SS (160-22264-11), PZ-302-AS (160-22264-12) and PZ-302-AI (160-22264-13) were analyzed for chemical oxygen demand in accordance with EPA Method 410.4. The samples were prepared and analyzed on 06/01/2017.

The following samples in COD batch 160-311566 were diluted to bring the concentration of target analytes within the calibration range: PZ-113-AD (160-22264-6), MW-12OU (160-22264-9) and I-73 (160-22264-10). Elevated reporting limits (RLs) are provided.

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

TOTAL ORGANIC CARBON

Samples PZ-101-SS (160-22264-2), PZ-102R-SS (160-22264-3), PZ-103-SS (160-22264-4), PZ-113-SS (160-22264-5), PZ-113-AD (160-22264-6), PZ-113-AS (160-22264-7), PZ-112-AS (160-22264-8), MW-12OU (160-22264-9), I-73 (160-22264-10), PZ-203-SS (160-22264-11), PZ-302-AS (160-22264-12) and PZ-302-AI (160-22264-13) were analyzed for total organic carbon in accordance with EPA Method 415.1. The samples were analyzed on 06/03/2017.

The following samples in TOC batch 160-311962 were analyzed at dilution due to suspected and/or confirmed high concentrations of the target analyte: PZ-101-SS (160-22264-2), PZ-103-SS (160-22264-4), PZ-113-AD (160-22264-6), PZ-113-AS (160-22264-7), PZ-112-AS (160-22264-8), MW-12OU (160-22264-9), I-73 (160-22264-10), PZ-203-SS (160-22264-11), PZ-302-AS (160-22264-12) and PZ-302-AI (160-22264-13). Elevated reporting limits (RLs) are provided.

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

TRITIUM, TOTAL (LSC)

Samples PZ-101-SS (160-22264-2), PZ-102R-SS (160-22264-3), PZ-103-SS (160-22264-4), PZ-113-SS (160-22264-5), PZ-113-AD (160-22264-6), PZ-113-AS (160-22264-7), PZ-112-AS (160-22264-8), MW-12OU (160-22264-9), I-73 (160-22264-10), PZ-203-SS (160-22264-11), PZ-302-AS (160-22264-12) and PZ-302-AI (160-22264-13) were analyzed for Tritium, Total (LSC) in accordance with USEPA 906.0. The samples were prepared on 06/01/2017 and analyzed on 06/01/2017 and 06/02/2017.

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

13715 Rider Trail North
Earth City, MO 63045
Phone (314) 298-8566 Fax (314) 298-8757

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Brenna McDonald	Lab PM: Lambert-Sykes, Chenise Y	Carrier Tracking No(s):	COC No: 160-5226-2622.1
Client Contact: Brenna McDonald	Phone: 573-453-4329	E-Mail: chenise.lambert-sykes@testamericainc.com		Page: Page 1 of 1
Company: Missouri Attorney General's Office				Job #:
Address: PO BOX 899	Due Date Requested:			
City: Jefferson City	TAT Requested (days):			
State, Zip: MO, 65102				
Phone: 573-368-2163(Tel)	PO #: Purchase Order not required			
Email: brenna.mcdonald@dnr.mo.gov	WO #:			
Project Name: Groundwater - May 2017 Sampling Event	Project #: 16006007			
Site: Bridgeton Landfill	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	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)	906.0 - Trillium	350.1, 353.1_Pres, 365.2, 410.4_LL	160.1_Calcd, 300_ORGFM_28D	6010C - Metals	415.1 - TOC	8260C - (MOD) CILM 4.2	Total Number of containers	Special Instructions/Note: Headspace
			Preservation Code:				N	S	N	D	S	A		
TripBlank	5/9/17	0800	G	Water								✓		
PZ-101-SS	5/9/17	0925	G	Water			✓	✓	✓	✓	✓	✓		3of3
PZ-102R-SS	5/9/17	1043	G	Water			✓	✓	✓	✓	✓	✓		1of3
PZ-103-SS	5/9/17	1212	G	Water			✓	✓	✓	✓	✓	✓		3of3
PZ-113-SS	5/9/17	1434	G	Water			✓	✓	✓	✓	✓	✓		2of3
PZ-113-AD	5/9/17	1532	G	W			✓	✓	✓	✓	✓	✓		
PZ-113-AS	5/9/17	1626	G	W			✓	✓	✓	✓	✓	✓		1of3
PZ-112-AS	5/9/17	1711	G	W			✓	✓	✓	✓	✓	✓		
MW-1204	5/10/17	0926	G	W			✓	✓	✓	✓	✓	✓		check pH - acid reaction 3of3
I-73	5/10/17	1101	G	W			✓	✓	✓	✓	✓	✓		3of3
PZ-203-SS	5/10/17	1207	G	W			✓	✓	✓	✓	✓	✓		2of3

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
Brenna E McDonald	5/10/17 1655		Gil Clark	5-10-17 1655	TASR
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:		mpany

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

160-22264 Chain of Custody

13715 Rider Trail North
Earth City, MO 63045
Phone (314) 298-8566 Fax (314) 298-8757

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Brenna McDonald	Lab PM: Lambert-Sykes, Chenise Y	Carrier Tracking No(s):	COC No: 160-5226-2622.1
Client Contact: Brenna McDonald	Phone: 573-453-4329	E-Mail: chenise.lambert-sykes@testamericainc.com		Page: Page 1 of 1
Company: Missouri Attorney General's Office				Job #:
Address: PO BOX 899	Due Date Requested:			
City: Jefferson City	TAT Requested (days):			
State, Zip: MO, 65102				
Phone: 573-368-2163(Tel)	PO #: Purchase Order not required			
Email: brenna.mcdonald@dnr.mo.gov	WO #:			
Project Name: Groundwater - May 2017 Sampling Event	Project #: 16006007			
Site: Bridgeton Landfill	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)	906.0 - Tritium	350.1, 353.1_Pres, 365.2, 410.4_LL	160.1_Calcd, 300_ORGFM_28D	6010C - Metals	415.1 - TOC	8260C - (MOD) CLM 4.2	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	S	N	D	S	A		
PZ-302-AS	5/10/17	1355	G	Water			✓	✓	✓	✓	✓	✓		
PZ-302-AI	5/10/17	1537	G	Water			✓	✓	✓	✓	✓	✓		
				Water										
				Water										
				Water										

Possible Hazard Identification: ☐ Non-Hazard ☐ Flammable ☐ Skin Irritant ☐ Poison B ☐ Unknown ☐ Radiological

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

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

Special Instructions/QC Requirements:

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

Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Brenna McDonald	5/10/17 1655		Jill Clark	5.10.17 1655	TAST
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

6/14/2017

Login Sample Receipt Checklist

Client: Missouri Attorney General's Office

Job Number: 160-22264-1

Login Number: 22264
List Number: 1
Creator: Clarke, Jill C

List Source: TestAmerica St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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 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").	False	Samples 2-5, 7, and 9-11 were received with headspace in some vials.
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
H	Sample was prepped or analyzed beyond the specified holding time
X	Surrogate is outside control limits
F1	MS and/or MSD Recovery is outside acceptance limits.

HPLC/IC

Qualifier	Qualifier Description
*	LCS or LCSD is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
E	Result exceeded calibration range.
H	Sample was prepped or analyzed beyond the specified holding time

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
F1	MS and/or MSD Recovery is outside acceptance limits.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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)

Method Summary

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22264-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL SL
300.0	Anions, Ion Chromatography	MCAWW	TAL SL
6010C	Metals (ICP)	SW846	TAL SL
7470A	Mercury (CVAA)	SW846	TAL SL
160.1	Solids, Total Dissolved (TDS)	MCAWW	TAL SL
350.1	Nitrogen, Ammonia	MCAWW	TAL SL
353.1 Preserved	Nitrogen, Nitrate-Nitrite	MCAWW	TAL SL
410.4	COD	MCAWW	TAL SL
415.1	TOC	MCAWW	TAL SL
906.0	Tritium, Total (LSC)	EPA	TAL SL

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.

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

Laboratory References:

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22264-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-22264-1	TRIP BLANK	Water	05/09/17 08:00	05/10/17 16:55
160-22264-2	PZ-101-SS	Water	05/09/17 09:25	05/10/17 16:55
160-22264-3	PZ-102R-SS	Water	05/09/17 10:43	05/10/17 16:55
160-22264-4	PZ-103-SS	Water	05/09/17 12:12	05/10/17 16:55
160-22264-5	PZ-113-SS	Water	05/09/17 14:34	05/10/17 16:55
160-22264-6	PZ-113-AD	Water	05/09/17 15:32	05/10/17 16:55
160-22264-7	PZ-113-AS	Water	05/09/17 16:26	05/10/17 16:55
160-22264-8	PZ-112-AS	Water	05/09/17 17:11	05/10/17 16:55
160-22264-9	MW-12OU	Water	05/10/17 09:26	05/10/17 16:55
160-22264-10	I-73	Water	05/10/17 11:01	05/10/17 16:55
160-22264-11	PZ-203-SS	Water	05/10/17 12:07	05/10/17 16:55
160-22264-12	PZ-302-AS	Water	05/10/17 13:55	05/10/17 16:55
160-22264-13	PZ-302-AI	Water	05/10/17 15:37	05/10/17 16:55

Detection Summary

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22264-1

Client Sample ID: TRIP BLANK — Lab Sample ID: 160-22264-1

No Detections.

Client Sample ID: PZ-101-SS — Lab Sample ID: 160-22264-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	7.5		5.0	0.38	ug/L	1		8260C	Total/NA
1,4-Dichlorobenzene	0.47	J	5.0	0.35	ug/L	1		8260C	Total/NA
Iodide	1.1		1.0	0.10	mg/L	1		300.0	Total/NA
Chloride - DL	240	B	20	2.0	mg/L	100		300.0	Total/NA
Fluoride - RADL	1.4		0.50	0.13	mg/L	5		300.0	Total/NA
Sulfate - RADL	2.3	H	1.0	0.10	mg/L	2		300.0	Total/NA
Iron	5200		500	150	ug/L	5		6010C	Total/NA
Arsenic	120		50	20	ug/L	5		6010C	Total/NA
Barium	570		250	75	ug/L	5		6010C	Total/NA
Boron	720		500	130	ug/L	5		6010C	Total/NA
CaHard	480000		12000	3700	ug/L	5		6010C	Total/NA
Calcium	190000		5000	1500	ug/L	5		6010C	Total/NA
Magnesium	96		5.0	1.5	mg/L	5		6010C	Total/NA
Manganese	150		75	20	ug/L	5		6010C	Total/NA
MgHard	400000		21000	6200	ug/L	5		6010C	Total/NA
Sodium	89000		5000	1500	ug/L	5		6010C	Total/NA
Total Hardness	870000		33000	9900	ug/L	5		6010C	Total/NA
Total Dissolved Solids (TDS)	1200		10	7.0	mg/L	1		160.1	Total/NA
Chemical Oxygen Demand	97		5.0	2.4	mg/L	1		410.4	Total/NA
Ammonia - DL	13000	F1	1000	450	ug/L	20		350.1	Total/NA
Total Organic Carbon - DL	33		10	7.2	mg/L	10		415.1	Total/NA

Client Sample ID: PZ-102R-SS — Lab Sample ID: 160-22264-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride - DL	6.4	B	2.0	0.20	mg/L	10		300.0	Total/NA
Fluoride - RADL	0.62		0.40	0.10	mg/L	4		300.0	Total/NA
Sulfate - RADL	55		2.0	0.20	mg/L	4		300.0	Total/NA
Iron	3500		500	150	ug/L	5		6010C	Total/NA
Barium	88	J	250	75	ug/L	5		6010C	Total/NA
Boron	180	J	500	130	ug/L	5		6010C	Total/NA
CaHard	310000		12000	3700	ug/L	5		6010C	Total/NA
Calcium	120000		5000	1500	ug/L	5		6010C	Total/NA
Magnesium	44		5.0	1.5	mg/L	5		6010C	Total/NA
Manganese	85		75	20	ug/L	5		6010C	Total/NA
MgHard	180000		21000	6200	ug/L	5		6010C	Total/NA
Sodium	19000		5000	1500	ug/L	5		6010C	Total/NA
Total Hardness	490000		33000	9900	ug/L	5		6010C	Total/NA
Total Dissolved Solids (TDS)	530		5.0	3.5	mg/L	1		160.1	Total/NA
Ammonia	82		50	22	ug/L	1		350.1	Total/NA
Total Organic Carbon	5.8		1.0	0.72	mg/L	1		415.1	Total/NA

Client Sample ID: PZ-103-SS — Lab Sample ID: 160-22264-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	36	H	5.0	0.25	ug/L	1		8260C	Total/NA
Chlorobenzene	1.2	J H	5.0	0.38	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica St. Louis

Detection Summary

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22264-1

Client Sample ID: PZ-103-SS (Continued) — Lab Sample ID: 160-22264-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
1,4-Dichlorobenzene	3.8	J H	5.0	0.35	ug/L	1		8260C	Total/NA
Ethylbenzene	3.4	J H	5.0	0.30	ug/L	1		8260C	Total/NA
Toluene	8.1	H	5.0	1.0	ug/L	1		8260C	Total/NA
Xylenes, Total	3.8	J H	10	0.85	ug/L	1		8260C	Total/NA
Fluoride	0.77		0.10	0.026	mg/L	1		300.0	Total/NA
Sulfate	4.1		0.50	0.050	mg/L	1		300.0	Total/NA
Chloride - DL	16	B	2.0	0.20	mg/L	10		300.0	Total/NA
Antimony	19	J	50	15	ug/L	5		6010C	Total/NA
Iron	20000		500	150	ug/L	5		6010C	Total/NA
Barium	770		250	75	ug/L	5		6010C	Total/NA
Boron	340	J	500	130	ug/L	5		6010C	Total/NA
CaHard	730000		12000	3700	ug/L	5		6010C	Total/NA
Calcium	290000		5000	1500	ug/L	5		6010C	Total/NA
Magnesium	100		5.0	1.5	mg/L	5		6010C	Total/NA
Manganese	640		75	20	ug/L	5		6010C	Total/NA
MgHard	430000		21000	6200	ug/L	5		6010C	Total/NA
Phosphorus	580	J	1300	380	ug/L	5		6010C	Total/NA
Sodium	60000		5000	1500	ug/L	5		6010C	Total/NA
Total Hardness	1200000		33000	9900	ug/L	5		6010C	Total/NA
Total Dissolved Solids (TDS)	1300		10	7.0	mg/L	1		160.1	Total/NA
Ammonia	520		50	22	ug/L	1		350.1	Total/NA
Chemical Oxygen Demand	17		5.0	2.4	mg/L	1		410.4	Total/NA
Total Organic Carbon - DL	19		10	7.2	mg/L	10		415.1	Total/NA

Client Sample ID: PZ-113-SS — Lab Sample ID: 160-22264-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride - DL	10	B	2.0	0.20	mg/L	10		300.0	Total/NA
Fluoride - RADL	2.5		1.0	0.26	mg/L	10		300.0	Total/NA
Sulfate - RADL	17		5.0	0.50	mg/L	10		300.0	Total/NA
Antimony	18	J	50	15	ug/L	5		6010C	Total/NA
Iron	860		500	150	ug/L	5		6010C	Total/NA
Barium	190	J	250	75	ug/L	5		6010C	Total/NA
CaHard	180000		12000	3700	ug/L	5		6010C	Total/NA
Calcium	73000		5000	1500	ug/L	5		6010C	Total/NA
Magnesium	35		5.0	1.5	mg/L	5		6010C	Total/NA
Manganese	42	J	75	20	ug/L	5		6010C	Total/NA
MgHard	140000		21000	6200	ug/L	5		6010C	Total/NA
Sodium	19000		5000	1500	ug/L	5		6010C	Total/NA
Total Hardness	330000		33000	9900	ug/L	5		6010C	Total/NA
Total Dissolved Solids (TDS)	330		5.0	3.5	mg/L	1		160.1	Total/NA
Ammonia	110		50	22	ug/L	1		350.1	Total/NA
Total Organic Carbon	3.0		1.0	0.72	mg/L	1		415.1	Total/NA

Client Sample ID: PZ-113-AD — Lab Sample ID: 160-22264-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.83	J H	5.0	0.25	ug/L	1		8260C	Total/NA
Chlorobenzene	0.95	J H	5.0	0.38	ug/L	1		8260C	Total/NA
Fluoride	0.14		0.10	0.026	mg/L	1		300.0	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PZ-113-AD (Continued)

Lab Sample ID: 160-22264-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iodide	0.61	J *	1.0	0.10	mg/L	1		300.0	Total/NA
Sulfate	0.57		0.50	0.050	mg/L	1		300.0	Total/NA
Chloride - DL	690	B	50	5.0	mg/L	250		300.0	Total/NA
Antimony	15	J	50	15	ug/L	5		6010C	Total/NA
Iron	35000		500	150	ug/L	5		6010C	Total/NA
Barium	2500		250	75	ug/L	5		6010C	Total/NA
Boron	1600		500	130	ug/L	5		6010C	Total/NA
CaHard	720000		12000	3700	ug/L	5		6010C	Total/NA
Calcium	290000		5000	1500	ug/L	5		6010C	Total/NA
Magnesium	84		5.0	1.5	mg/L	5		6010C	Total/NA
Manganese	590		75	20	ug/L	5		6010C	Total/NA
MgHard	350000		21000	6200	ug/L	5		6010C	Total/NA
Phosphorus	760	J	1300	380	ug/L	5		6010C	Total/NA
Sodium	480000		5000	1500	ug/L	5		6010C	Total/NA
Total Hardness	1100000		33000	9900	ug/L	5		6010C	Total/NA
Total Dissolved Solids (TDS)	2400		25	17	mg/L	1		160.1	Total/NA
Chemical Oxygen Demand	260		10	4.8	mg/L	2		410.4	Total/NA
Ammonia - DL	58000		10000	4500	ug/L	200		350.1	Total/NA
Total Organic Carbon - DL	52		20	14	mg/L	20		415.1	Total/NA

Client Sample ID: PZ-113-AS

Lab Sample ID: 160-22264-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	110		5.0	0.38	ug/L	1		8260C	Total/NA
1,4-Dichlorobenzene	10		5.0	0.35	ug/L	1		8260C	Total/NA
Ethylbenzene	23		5.0	0.30	ug/L	1		8260C	Total/NA
Toluene	23		5.0	1.0	ug/L	1		8260C	Total/NA
Xylenes, Total	47		10	0.85	ug/L	1		8260C	Total/NA
Benzene - DL	2500		100	5.0	ug/L	20		8260C	Total/NA
Fluoride	0.65		0.10	0.026	mg/L	1		300.0	Total/NA
Sulfate	0.57		0.50	0.050	mg/L	1		300.0	Total/NA
Chloride - DL	13	B	2.0	0.20	mg/L	10		300.0	Total/NA
Antimony	19	J	50	15	ug/L	5		6010C	Total/NA
Iron	150000		500	150	ug/L	5		6010C	Total/NA
Arsenic	270		50	20	ug/L	5		6010C	Total/NA
Barium	500		250	75	ug/L	5		6010C	Total/NA
Boron	300	J	500	130	ug/L	5		6010C	Total/NA
CaHard	430000		12000	3700	ug/L	5		6010C	Total/NA
Calcium	170000		5000	1500	ug/L	5		6010C	Total/NA
Magnesium	61		5.0	1.5	mg/L	5		6010C	Total/NA
Manganese	8700		75	20	ug/L	5		6010C	Total/NA
MgHard	250000		21000	6200	ug/L	5		6010C	Total/NA
Phosphorus	2200		1300	380	ug/L	5		6010C	Total/NA
Sodium	32000		5000	1500	ug/L	5		6010C	Total/NA
Total Hardness	680000		33000	9900	ug/L	5		6010C	Total/NA
Total Dissolved Solids (TDS)	940		5.0	3.5	mg/L	1		160.1	Total/NA
Chemical Oxygen Demand	55		5.0	2.4	mg/L	1		410.4	Total/NA
Ammonia - DL	4700		250	110	ug/L	5		350.1	Total/NA
Total Organic Carbon - DL	18		10	7.2	mg/L	10		415.1	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22264-1

Client Sample ID: PZ-112-AS — Lab Sample ID: 160-22264-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	20		5.0	0.25	ug/L	1		8260C	Total/NA
Chlorobenzene	1400		50	3.8	ug/L	10		8260C	Total/NA
1,4-Dichlorobenzene	11		5.0	0.35	ug/L	1		8260C	Total/NA
Fluoride	0.28	H	0.10	0.026	mg/L	1		300.0	Total/NA
Iodide	0.10	J *	1.0	0.10	mg/L	1		300.0	Total/NA
Sulfate	3.4	H	0.50	0.050	mg/L	1		300.0	Total/NA
Chloride - DL	120	B	10	1.0	mg/L	50		300.0	Total/NA
Antimony	18	J	50	15	ug/L	5		6010C	Total/NA
Iron	28000		500	150	ug/L	5		6010C	Total/NA
Arsenic	240		50	20	ug/L	5		6010C	Total/NA
Barium	1700		250	75	ug/L	5		6010C	Total/NA
Boron	950		500	130	ug/L	5		6010C	Total/NA
CaHard	290000		12000	3700	ug/L	5		6010C	Total/NA
Calcium	120000		5000	1500	ug/L	5		6010C	Total/NA
Magnesium	68		5.0	1.5	mg/L	5		6010C	Total/NA
Manganese	120		75	20	ug/L	5		6010C	Total/NA
MgHard	280000		21000	6200	ug/L	5		6010C	Total/NA
Phosphorus	1700		1300	380	ug/L	5		6010C	Total/NA
Sodium	100000		5000	1500	ug/L	5		6010C	Total/NA
Total Hardness	570000		33000	9900	ug/L	5		6010C	Total/NA
Total Dissolved Solids (TDS)	930		10	7.0	mg/L	1		160.1	Total/NA
Ammonia - DL	140000		10000	4500	ug/L	200		350.1	Total/NA
Total Organic Carbon - DL	20		10	7.2	mg/L	10		415.1	Total/NA

Client Sample ID: MW-12OU — Lab Sample ID: 160-22264-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	30	J	40	13	ug/L	2		8260C	Total/NA
Benzene	7.4	J	10	0.50	ug/L	2		8260C	Total/NA
Chlorobenzene	1.8	J	10	0.76	ug/L	2		8260C	Total/NA
4-Methyl-2-pentanone (MIBK)	15	J	40	0.66	ug/L	2		8260C	Total/NA
Toluene	310		10	2.0	ug/L	2		8260C	Total/NA
Fluoride	2.0		0.10	0.026	mg/L	1		300.0	Total/NA
Sulfate	0.87		0.50	0.050	mg/L	1		300.0	Total/NA
Chloride - DL	600	B	50	5.0	mg/L	250		300.0	Total/NA
Iodide - DL	1.3	J *	2.0	0.20	mg/L	2		300.0	Total/NA
Antimony	18	J	50	15	ug/L	5		6010C	Total/NA
Iron	11000		500	150	ug/L	5		6010C	Total/NA
Barium	6000		250	75	ug/L	5		6010C	Total/NA
Boron	1900		500	130	ug/L	5		6010C	Total/NA
CaHard	790000		12000	3700	ug/L	5		6010C	Total/NA
Calcium	320000		5000	1500	ug/L	5		6010C	Total/NA
Chromium	42	J	50	15	ug/L	5		6010C	Total/NA
Magnesium	120		5.0	1.5	mg/L	5		6010C	Total/NA
Manganese	500		75	20	ug/L	5		6010C	Total/NA
MgHard	490000		21000	6200	ug/L	5		6010C	Total/NA
Sodium	310000		5000	1500	ug/L	5		6010C	Total/NA
Total Hardness	1300000		33000	9900	ug/L	5		6010C	Total/NA
Total Dissolved Solids (TDS)	2700		25	17	mg/L	1		160.1	Total/NA
Nitrate Nitrite as N	41	J	50	22	ug/L	1		353.1 Preserved	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: MW-12OU (Continued) — Lab Sample ID: 160-22264-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chemical Oxygen Demand	790		50	24	mg/L	10		410.4	Total/NA
Ammonia - DL	86000		10000	4500	ug/L	200		350.1	Total/NA
Total Organic Carbon - DL	220		100	72	mg/L	100		415.1	Total/NA

Client Sample ID: I-73 — Lab Sample ID: 160-22264-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	210		10	0.50	ug/L	2		8260C	Total/NA
Chlorobenzene	15		10	0.76	ug/L	2		8260C	Total/NA
1,4-Dichlorobenzene	1.9	J	10	0.70	ug/L	2		8260C	Total/NA
Ethylbenzene	1.4	J	10	0.60	ug/L	2		8260C	Total/NA
Toluene	4.6	J	10	2.0	ug/L	2		8260C	Total/NA
Xylenes, Total	7.7	J	20	1.7	ug/L	2		8260C	Total/NA
Fluoride	0.35		0.10	0.026	mg/L	1		300.0	Total/NA
Sulfate	1.0		0.50	0.050	mg/L	1		300.0	Total/NA
Chloride - DL	530	B	50	5.0	mg/L	250		300.0	Total/NA
Iodide - DL	1.8	J *	2.0	0.20	mg/L	2		300.0	Total/NA
Antimony	17	J	50	15	ug/L	5		6010C	Total/NA
Iron	35000		500	150	ug/L	5		6010C	Total/NA
Arsenic	130		50	20	ug/L	5		6010C	Total/NA
Barium	1500		250	75	ug/L	5		6010C	Total/NA
Boron	3000		500	130	ug/L	5		6010C	Total/NA
Cadmium	15	J	25	7.5	ug/L	5		6010C	Total/NA
CaHard	280000		12000	3700	ug/L	5		6010C	Total/NA
Calcium	110000		5000	1500	ug/L	5		6010C	Total/NA
Chromium	25	J	50	15	ug/L	5		6010C	Total/NA
Lead	28	J	50	15	ug/L	5		6010C	Total/NA
Magnesium	54		5.0	1.5	mg/L	5		6010C	Total/NA
Manganese	240		75	20	ug/L	5		6010C	Total/NA
MgHard	220000		21000	6200	ug/L	5		6010C	Total/NA
Nickel	0.091	J	0.20	0.050	mg/L	5		6010C	Total/NA
Phosphorus	1300		1300	380	ug/L	5		6010C	Total/NA
Sodium	300000		5000	1500	ug/L	5		6010C	Total/NA
Total Hardness	500000		33000	9900	ug/L	5		6010C	Total/NA
Zinc	240		100	30	ug/L	5		6010C	Total/NA
Total Dissolved Solids (TDS)	1600		25	17	mg/L	1		160.1	Total/NA
Nitrate Nitrite as N	25	J	50	22	ug/L	1		353.1 Preserved	Total/NA
Chemical Oxygen Demand	340		50	24	mg/L	10		410.4	Total/NA
Ammonia - DL	240000		10000	4500	ug/L	200		350.1	Total/NA
Total Organic Carbon - DL	88		50	36	mg/L	50		415.1	Total/NA

Client Sample ID: PZ-203-SS — Lab Sample ID: 160-22264-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chlorobenzene	1.7	J	5.0	0.38	ug/L	1		8260C	Total/NA
Fluoride	0.44		0.10	0.026	mg/L	1		300.0	Total/NA
Chloride - DL	7.5	B	2.0	0.20	mg/L	10		300.0	Total/NA
Sulfate - RADL	44		10	1.0	mg/L	20		300.0	Total/NA
Antimony	19	J	50	15	ug/L	5		6010C	Total/NA
Iron	2600		500	150	ug/L	5		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PZ-203-SS (Continued) — Lab Sample ID: 160-22264-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Barium	99	J	250	75	ug/L	5		6010C	Total/NA
Boron	190	J	500	130	ug/L	5		6010C	Total/NA
CaHard	260000		12000	3700	ug/L	5		6010C	Total/NA
Calcium	100000		5000	1500	ug/L	5		6010C	Total/NA
Magnesium	43		5.0	1.5	mg/L	5		6010C	Total/NA
MgHard	180000		21000	6200	ug/L	5		6010C	Total/NA
Sodium	12000		5000	1500	ug/L	5		6010C	Total/NA
Total Hardness	440000		33000	9900	ug/L	5		6010C	Total/NA
Total Dissolved Solids (TDS)	460		5.0	3.5	mg/L	1		160.1	Total/NA
Ammonia	160		50	22	ug/L	1		350.1	Total/NA
Chemical Oxygen Demand	19		5.0	2.4	mg/L	1		410.4	Total/NA
Total Organic Carbon - DL	7.7		2.0	1.4	mg/L	2		415.1	Total/NA

Client Sample ID: PZ-302-AS — Lab Sample ID: 160-22264-12

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	14	J	20	6.7	ug/L	1		8260C	Total/NA
Chlorobenzene	0.56	J	5.0	0.38	ug/L	1		8260C	Total/NA
Fluoride	0.22		0.10	0.026	mg/L	1		300.0	Total/NA
Iodide	0.48	J *	1.0	0.10	mg/L	1		300.0	Total/NA
Sulfate	11		0.50	0.050	mg/L	1		300.0	Total/NA
Chloride - DL	100	B	10	1.0	mg/L	50		300.0	Total/NA
Antimony	18	J	50	15	ug/L	5		6010C	Total/NA
Iron	2100		500	150	ug/L	5		6010C	Total/NA
Barium	700		250	75	ug/L	5		6010C	Total/NA
Boron	400	J	500	130	ug/L	5		6010C	Total/NA
CaHard	460000		12000	3700	ug/L	5		6010C	Total/NA
Calcium	190000		5000	1500	ug/L	5		6010C	Total/NA
Magnesium	47		5.0	1.5	mg/L	5		6010C	Total/NA
Manganese	3900		75	20	ug/L	5		6010C	Total/NA
MgHard	200000		21000	6200	ug/L	5		6010C	Total/NA
Sodium	67000		5000	1500	ug/L	5		6010C	Total/NA
Total Hardness	660000		33000	9900	ug/L	5		6010C	Total/NA
Total Dissolved Solids (TDS)	870		5.0	3.5	mg/L	1		160.1	Total/NA
Ammonia	980	F1	50	22	ug/L	1		350.1	Total/NA
Chemical Oxygen Demand	26		5.0	2.4	mg/L	1		410.4	Total/NA
Total Organic Carbon - DL	9.2		2.0	1.4	mg/L	2		415.1	Total/NA

Client Sample ID: PZ-302-AI — Lab Sample ID: 160-22264-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4.8	J	5.0	0.25	ug/L	1		8260C	Total/NA
Chlorobenzene	2.8	J	5.0	0.38	ug/L	1		8260C	Total/NA
Fluoride	0.18		0.10	0.026	mg/L	1		300.0	Total/NA
Iodide	0.10	J *	1.0	0.10	mg/L	1		300.0	Total/NA
Sulfate	16	F1	0.50	0.050	mg/L	1		300.0	Total/NA
Chloride - DL	30	B	5.0	0.50	mg/L	25		300.0	Total/NA
Iron	3100		500	150	ug/L	5		6010C	Total/NA
Barium	470		250	75	ug/L	5		6010C	Total/NA
Boron	370	J	500	130	ug/L	5		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22264-1

Client Sample ID: PZ-302-AI (Continued)

Lab Sample ID: 160-22264-13

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
CaHard	630000		12000	3700	ug/L	5		6010C	Total/NA
Calcium	250000		5000	1500	ug/L	5		6010C	Total/NA
Magnesium	64		5.0	1.5	mg/L	5		6010C	Total/NA
Manganese	510		75	20	ug/L	5		6010C	Total/NA
MgHard	260000		21000	6200	ug/L	5		6010C	Total/NA
Sodium	55000		5000	1500	ug/L	5		6010C	Total/NA
Total Hardness	890000		33000	9900	ug/L	5		6010C	Total/NA
Total Dissolved Solids (TDS)	960		5.0	3.5	mg/L	1		160.1	Total/NA
Ammonia	90		50	22	ug/L	1		350.1	Total/NA
Chemical Oxygen Demand	14		5.0	2.4	mg/L	1		410.4	Total/NA
Total Organic Carbon - DL	11		2.0	1.4	mg/L	2		415.1	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TRIP BLANK
Date Collected: 05/09/17 08:00
Date Received: 05/10/17 16:55

Lab Sample ID: 160-22264-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/17/17 21:04	1
Acrylonitrile	ND		50	1.7	ug/L			05/17/17 21:04	1
Benzene	ND		5.0	0.25	ug/L			05/17/17 21:04	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/17/17 21:04	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/17/17 21:04	1
Bromoform	ND		5.0	0.37	ug/L			05/17/17 21:04	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/17/17 21:04	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/17/17 21:04	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/17/17 21:04	1
Chloroethane	ND		10	0.38	ug/L			05/17/17 21:04	1
Chloroform	ND		5.0	0.15	ug/L			05/17/17 21:04	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/17/17 21:04	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/17/17 21:04	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/17/17 21:04	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/17/17 21:04	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/17/17 21:04	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/17/17 21:04	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/17/17 21:04	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/17/17 21:04	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/17/17 21:04	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/17/17 21:04	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/17/17 21:04	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/17/17 21:04	1
2-Hexanone	ND		20	0.59	ug/L			05/17/17 21:04	1
Methyl bromide	ND		10	0.40	ug/L			05/17/17 21:04	1
Methyl chloride	ND		10	0.55	ug/L			05/17/17 21:04	1
Methylene bromide	ND		5.0	0.41	ug/L			05/17/17 21:04	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/17/17 21:04	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/17/17 21:04	1
Methyl iodide	ND		5.0	1.5	ug/L			05/17/17 21:04	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/17/17 21:04	1
Styrene	ND		5.0	0.35	ug/L			05/17/17 21:04	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/17/17 21:04	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/17/17 21:04	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/17/17 21:04	1
Toluene	ND		5.0	1.0	ug/L			05/17/17 21:04	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/17/17 21:04	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/17/17 21:04	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/17/17 21:04	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/17/17 21:04	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/17/17 21:04	1
Trichloroethene	ND		5.0	0.29	ug/L			05/17/17 21:04	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/17/17 21:04	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/17/17 21:04	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/17/17 21:04	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/17/17 21:04	1
Xylenes, Total	ND		10	0.85	ug/L			05/17/17 21:04	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 160-22264-1
Date Collected: 05/09/17 08:00
Matrix: Water
Date Received: 05/10/17 16:55

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*71 - 139*		*05/17/17 21:04*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 121*		*05/17/17 21:04*	*1*
1,2-Dichloroethane-d4 (Surr)	*100*		*76 - 121*		*05/17/17 21:04*	*1*
Toluene-d8 (Surr)	*100*		*80 - 129*		*05/17/17 21:04*	*1*

Client Sample ID: PZ-101-SS

Lab Sample ID: 160-22264-2
Date Collected: 05/09/17 09:25
Matrix: Water
Date Received: 05/10/17 16:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/17/17 21:52	1
Acrylonitrile	ND		50	1.7	ug/L			05/17/17 21:52	1
Benzene	ND		5.0	0.25	ug/L			05/17/17 21:52	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/17/17 21:52	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/17/17 21:52	1
Bromoform	ND		5.0	0.37	ug/L			05/17/17 21:52	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/17/17 21:52	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/17/17 21:52	1
Chlorobenzene	**7.5**		5.0	0.38	ug/L			05/17/17 21:52	1
Chloroethane	ND		10	0.38	ug/L			05/17/17 21:52	1
Chloroform	ND		5.0	0.15	ug/L			05/17/17 21:52	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/17/17 21:52	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/17/17 21:52	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/17/17 21:52	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/17/17 21:52	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/17/17 21:52	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/17/17 21:52	1
1,4-Dichlorobenzene	**0.47**	**J**	5.0	0.35	ug/L			05/17/17 21:52	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/17/17 21:52	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/17/17 21:52	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/17/17 21:52	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/17/17 21:52	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/17/17 21:52	1
2-Hexanone	ND		20	0.59	ug/L			05/17/17 21:52	1
Methyl bromide	ND		10	0.40	ug/L			05/17/17 21:52	1
Methyl chloride	ND		10	0.55	ug/L			05/17/17 21:52	1
Methylene bromide	ND		5.0	0.41	ug/L			05/17/17 21:52	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/17/17 21:52	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/17/17 21:52	1
Methyl iodide	ND		5.0	1.5	ug/L			05/17/17 21:52	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/17/17 21:52	1
Styrene	ND		5.0	0.35	ug/L			05/17/17 21:52	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/17/17 21:52	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/17/17 21:52	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/17/17 21:52	1
Toluene	ND		5.0	1.0	ug/L			05/17/17 21:52	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/17/17 21:52	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/17/17 21:52	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/17/17 21:52	1

Client Sample ID: PZ-101-SS
Date Collected: 05/09/17 09:25
Date Received: 05/10/17 16:55

Lab Sample ID: 160-22264-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/17/17 21:52	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/17/17 21:52	1
Trichloroethene	ND		5.0	0.29	ug/L			05/17/17 21:52	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/17/17 21:52	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/17/17 21:52	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/17/17 21:52	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/17/17 21:52	1
Xylenes, Total	ND		10	0.85	ug/L			05/17/17 21:52	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*71 - 139*		*05/17/17 21:52*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 121*		*05/17/17 21:52*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*76 - 121*		*05/17/17 21:52*	*1*
Toluene-d8 (Surr)	*97*		*80 - 129*		*05/17/17 21:52*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	**1.1**		1.0	0.10	mg/L			06/02/17 11:58	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**240**	**B**	20	2.0	mg/L			05/16/17 18:32	100

Method: 300.0 - Anions, Ion Chromatography - RADL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**1.4**		0.50	0.13	mg/L			06/06/17 21:06	5
Sulfate	**2.3**	**H**	1.0	0.10	mg/L			06/08/17 15:32	2

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		50	15	ug/L		05/15/17 15:35	05/18/17 18:43	5
Iron	**5200**		500	150	ug/L		05/15/17 15:35	05/18/17 18:43	5
Arsenic	**120**		50	20	ug/L		05/15/17 15:35	05/18/17 18:43	5
Barium	**570**		250	75	ug/L		05/15/17 15:35	05/18/17 18:43	5
Beryllium	ND		25	7.5	ug/L		05/15/17 15:35	05/18/17 18:43	5
Boron	**720**		500	130	ug/L		05/15/17 15:35	05/18/17 18:43	5
Cadmium	ND		25	7.5	ug/L		05/15/17 15:35	05/18/17 18:43	5
CaHard	**480000**		12000	3700	ug/L		05/15/17 15:35	05/18/17 18:43	5
Calcium	**190000**		5000	1500	ug/L		05/15/17 15:35	05/18/17 18:43	5
Chromium	ND		50	15	ug/L		05/15/17 15:35	05/18/17 18:43	5
Cobalt	ND		250	75	ug/L		05/15/17 15:35	05/18/17 18:43	5
Copper	ND		130	35	ug/L		05/15/17 15:35	05/18/17 18:43	5
Lead	ND		50	15	ug/L		05/15/17 15:35	05/18/17 18:43	5
Magnesium	**96**		5.0	1.5	mg/L		05/15/17 15:35	05/18/17 18:43	5
Manganese	**150**		75	20	ug/L		05/15/17 15:35	05/18/17 18:43	5
MgHard	**400000**		21000	6200	ug/L		05/15/17 15:35	05/18/17 18:43	5
Nickel	ND		0.20	0.050	mg/L		05/15/17 15:35	05/18/17 18:43	5
Phosphorus	ND		1300	380	ug/L		05/15/17 15:35	05/18/17 18:43	5
Selenium	ND		75	40	ug/L		05/15/17 15:35	05/18/17 18:43	5
Silver	ND		50	15	ug/L		05/15/17 15:35	05/18/17 18:43	5
Sodium	**89000**		5000	1500	ug/L		05/15/17 15:35	05/18/17 18:43	5

Client Sample ID: PZ-101-SS

Date Collected: 05/09/17 09:25
Date Received: 05/10/17 16:55

Lab Sample ID: 160-22264-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		100	25	ug/L		05/15/17 15:35	05/18/17 18:43	5
Total Hardness	**870000**		33000	9900	ug/L		05/15/17 15:35	05/18/17 18:43	5
Vanadium	ND		250	130	ug/L		05/15/17 15:35	05/18/17 18:43	5
Zinc	ND		100	30	ug/L		05/15/17 15:35	05/18/17 18:43	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		06/05/17 09:53	06/05/17 17:27	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**1200**		10	7.0	mg/L			05/15/17 07:42	1
Nitrate Nitrite as N	ND	F1	50	22	ug/L			05/25/17 17:27	1
Chemical Oxygen Demand	**97**		5.0	2.4	mg/L		06/01/17 10:06	06/01/17 14:27	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**13000**	**F1**	1000	450	ug/L			05/31/17 23:50	20
Total Organic Carbon	**33**		10	7.2	mg/L			06/03/17 17:59	10

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	**5520**		445	659	500	265	pCi/L	06/01/17 12:29	06/01/17 19:40	1

Client Sample ID: PZ-102R-SS

Date Collected: 05/09/17 10:43
Date Received: 05/10/17 16:55

Lab Sample ID: 160-22264-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/17/17 22:17	1
Acrylonitrile	ND		50	1.7	ug/L			05/17/17 22:17	1
Benzene	ND		5.0	0.25	ug/L			05/17/17 22:17	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/17/17 22:17	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/17/17 22:17	1
Bromoform	ND		5.0	0.37	ug/L			05/17/17 22:17	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/17/17 22:17	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/17/17 22:17	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/17/17 22:17	1
Chloroethane	ND		10	0.38	ug/L			05/17/17 22:17	1
Chloroform	ND		5.0	0.15	ug/L			05/17/17 22:17	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/17/17 22:17	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/17/17 22:17	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/17/17 22:17	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/17/17 22:17	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/17/17 22:17	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/17/17 22:17	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/17/17 22:17	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/17/17 22:17	1

Client Sample ID: PZ-102R-SS
Date Collected: 05/09/17 10:43
Date Received: 05/10/17 16:55

Lab Sample ID: 160-22264-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/17/17 22:17	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/17/17 22:17	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/17/17 22:17	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/17/17 22:17	1
2-Hexanone	ND		20	0.59	ug/L			05/17/17 22:17	1
Methyl bromide	ND		10	0.40	ug/L			05/17/17 22:17	1
Methyl chloride	ND		10	0.55	ug/L			05/17/17 22:17	1
Methylene bromide	ND		5.0	0.41	ug/L			05/17/17 22:17	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/17/17 22:17	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/17/17 22:17	1
Methyl iodide	ND		5.0	1.5	ug/L			05/17/17 22:17	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/17/17 22:17	1
Styrene	ND		5.0	0.35	ug/L			05/17/17 22:17	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/17/17 22:17	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/17/17 22:17	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/17/17 22:17	1
Toluene	ND		5.0	1.0	ug/L			05/17/17 22:17	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/17/17 22:17	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/17/17 22:17	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/17/17 22:17	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/17/17 22:17	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/17/17 22:17	1
Trichloroethene	ND		5.0	0.29	ug/L			05/17/17 22:17	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/17/17 22:17	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/17/17 22:17	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/17/17 22:17	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/17/17 22:17	1
Xylenes, Total	ND		10	0.85	ug/L			05/17/17 22:17	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*71 - 139*		*05/17/17 22:17*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 121*		*05/17/17 22:17*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*76 - 121*		*05/17/17 22:17*	*1*
Toluene-d8 (Surr)	*99*		*80 - 129*		*05/17/17 22:17*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	ND	*	1.0	0.10	mg/L			05/15/17 19:01	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**6.4**	**B**	2.0	0.20	mg/L			05/16/17 19:51	10

Method: 300.0 - Anions, Ion Chromatography - RADL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.62**		0.40	0.10	mg/L			06/06/17 21:22	4
Sulfate	**55**		2.0	0.20	mg/L			06/06/17 21:22	4

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		50	15	ug/L		05/15/17 15:35	05/18/17 19:14	5

Client Sample ID: PZ-102R-SS

Date Collected: 05/09/17 10:43
Date Received: 05/10/17 16:55

Lab Sample ID: 160-22264-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iron	3500		500	150	ug/L		05/15/17 15:35	05/18/17 19:14	5
Arsenic	ND		50	20	ug/L		05/15/17 15:35	05/18/17 19:14	5
Barium	88	J	250	75	ug/L		05/15/17 15:35	05/18/17 19:14	5
Beryllium	ND		25	7.5	ug/L		05/15/17 15:35	05/18/17 19:14	5
Boron	180	J	500	130	ug/L		05/15/17 15:35	05/18/17 19:14	5
Cadmium	ND		25	7.5	ug/L		05/15/17 15:35	05/18/17 19:14	5
CaHard	310000		12000	3700	ug/L		05/15/17 15:35	05/18/17 19:14	5
Calcium	120000		5000	1500	ug/L		05/15/17 15:35	05/18/17 19:14	5
Chromium	ND		50	15	ug/L		05/15/17 15:35	05/18/17 19:14	5
Cobalt	ND		250	75	ug/L		05/15/17 15:35	05/18/17 19:14	5
Copper	ND		130	35	ug/L		05/15/17 15:35	05/18/17 19:14	5
Lead	ND		50	15	ug/L		05/15/17 15:35	05/18/17 19:14	5
Magnesium	44		5.0	1.5	mg/L		05/15/17 15:35	05/18/17 19:14	5
Manganese	85		75	20	ug/L		05/15/17 15:35	05/18/17 19:14	5
MgHard	180000		21000	6200	ug/L		05/15/17 15:35	05/18/17 19:14	5
Nickel	ND		0.20	0.050	mg/L		05/15/17 15:35	05/18/17 19:14	5
Phosphorus	ND		1300	380	ug/L		05/15/17 15:35	05/18/17 19:14	5
Selenium	ND		75	40	ug/L		05/15/17 15:35	05/18/17 19:14	5
Silver	ND		50	15	ug/L		05/15/17 15:35	05/18/17 19:14	5
Sodium	19000		5000	1500	ug/L		05/15/17 15:35	05/18/17 19:14	5
Thallium	ND		100	25	ug/L		05/15/17 15:35	05/18/17 19:14	5
Total Hardness	490000		33000	9900	ug/L		05/15/17 15:35	05/18/17 19:14	5
Vanadium	ND		250	130	ug/L		05/15/17 15:35	05/18/17 19:14	5
Zinc	ND		100	30	ug/L		05/15/17 15:35	05/18/17 19:14	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		06/05/17 09:53	06/05/17 17:29	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	530		5.0	3.5	mg/L			05/15/17 07:42	1
Ammonia	82		50	22	ug/L			06/01/17 00:00	1
Nitrate Nitrite as N	ND		50	22	ug/L			05/25/17 17:40	1
Chemical Oxygen Demand	ND		5.0	2.4	mg/L		06/01/17 10:06	06/01/17 14:27	1
Total Organic Carbon	5.8		1.0	0.72	mg/L			06/03/17 18:10	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-5.86	U	143	143	500	258	pCi/L	06/01/17 12:29	06/01/17 20:25	1

Client Sample ID: PZ-103-SS

Date Collected: 05/09/17 12:12
Date Received: 05/10/17 16:55

Lab Sample ID: 160-22264-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	H	20	6.7	ug/L			05/17/17 22:42	1

Client Sample ID: PZ-103-SS
Date Collected: 05/09/17 12:12
Date Received: 05/10/17 16:55

Lab Sample ID: 160-22264-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acrylonitrile	ND	H	50	1.7	ug/L			05/17/17 22:42	1
Benzene	**36**	**H**	5.0	0.25	ug/L			05/17/17 22:42	1
Bromochloromethane	ND	H	5.0	0.55	ug/L			05/17/17 22:42	1
Bromodichloromethane	ND	H	5.0	0.25	ug/L			05/17/17 22:42	1
Bromoform	ND	H	5.0	0.37	ug/L			05/17/17 22:42	1
Carbon disulfide	ND	H	5.0	0.37	ug/L			05/17/17 22:42	1
Carbon tetrachloride	ND	H	5.0	0.36	ug/L			05/17/17 22:42	1
Chlorobenzene	**1.2**	**J H**	5.0	0.38	ug/L			05/17/17 22:42	1
Chloroethane	ND	H	10	0.38	ug/L			05/17/17 22:42	1
Chloroform	ND	H	5.0	0.15	ug/L			05/17/17 22:42	1
cis-1,2-Dichloroethene	ND	H	5.0	0.16	ug/L			05/17/17 22:42	1
cis-1,3-Dichloropropene	ND	H	5.0	0.34	ug/L			05/17/17 22:42	1
Dibromochloromethane	ND	H	5.0	0.33	ug/L			05/17/17 22:42	1
1,2-Dibromo-3-Chloropropane	ND	H	10	1.2	ug/L			05/17/17 22:42	1
1,2-Dibromoethane (EDB)	ND	H	5.0	0.44	ug/L			05/17/17 22:42	1
1,2-Dichlorobenzene	ND	H	5.0	0.28	ug/L			05/17/17 22:42	1
1,4-Dichlorobenzene	**3.8**	**J H**	5.0	0.35	ug/L			05/17/17 22:42	1
1,1-Dichloroethane	ND	H	5.0	0.39	ug/L			05/17/17 22:42	1
1,2-Dichloroethane	ND	H	5.0	0.37	ug/L			05/17/17 22:42	1
1,1-Dichloroethene	ND	H	5.0	0.37	ug/L			05/17/17 22:42	1
1,2-Dichloropropane	ND	H	5.0	0.32	ug/L			05/17/17 22:42	1
Ethylbenzene	**3.4**	**J H**	5.0	0.30	ug/L			05/17/17 22:42	1
2-Hexanone	ND	H	20	0.59	ug/L			05/17/17 22:42	1
Methyl bromide	ND	H	10	0.40	ug/L			05/17/17 22:42	1
Methyl chloride	ND	H	10	0.55	ug/L			05/17/17 22:42	1
Methylene bromide	ND	H	5.0	0.41	ug/L			05/17/17 22:42	1
Methylene Chloride	ND	H	5.0	1.7	ug/L			05/17/17 22:42	1
Methyl Ethyl Ketone	ND	H	20	0.39	ug/L			05/17/17 22:42	1
Methyl iodide	ND	H	5.0	1.5	ug/L			05/17/17 22:42	1
4-Methyl-2-pentanone (MIBK)	ND	H	20	0.33	ug/L			05/17/17 22:42	1
Styrene	ND	H	5.0	0.35	ug/L			05/17/17 22:42	1
1,1,1,2-Tetrachloroethane	ND	H	5.0	0.25	ug/L			05/17/17 22:42	1
1,1,2,2-Tetrachloroethane	ND	H	5.0	0.43	ug/L			05/17/17 22:42	1
Tetrachloroethene	ND	H	5.0	0.28	ug/L			05/17/17 22:42	1
Toluene	**8.1**	**H**	5.0	1.0	ug/L			05/17/17 22:42	1
trans-1,4-Dichloro-2-butene	ND	H	10	0.95	ug/L			05/17/17 22:42	1
trans-1,2-Dichloroethene	ND	H	5.0	0.18	ug/L			05/17/17 22:42	1
trans-1,3-Dichloropropene	ND	H	5.0	0.35	ug/L			05/17/17 22:42	1
1,1,1-Trichloroethane	ND	H	5.0	0.29	ug/L			05/17/17 22:42	1
1,1,2-Trichloroethane	ND	H	5.0	0.57	ug/L			05/17/17 22:42	1
Trichloroethene	ND	H	5.0	0.29	ug/L			05/17/17 22:42	1
Trichlorofluoromethane	ND	H	5.0	0.22	ug/L			05/17/17 22:42	1
1,2,3-Trichloropropane	ND	H	5.0	0.56	ug/L			05/17/17 22:42	1
Vinyl acetate	ND	H	5.0	0.61	ug/L			05/17/17 22:42	1
Vinyl chloride	ND	H	5.0	0.43	ug/L			05/17/17 22:42	1
Xylenes, Total	**3.8**	**J H**	10	0.85	ug/L			05/17/17 22:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*71 - 139*		*05/17/17 22:42*	*1*
Dibromofluoromethane (Surr)	*101*		*80 - 121*		*05/17/17 22:42*	*1*

Client Sample ID: PZ-103-SS

Date Collected: 05/09/17 12:12
Date Received: 05/10/17 16:55

Lab Sample ID: 160-22264-4

Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
1,2-Dichloroethane-d4 (Surr)	*102*		*76 - 121*		*05/17/17 22:42*	*1*
Toluene-d8 (Surr)	*94*		*80 - 129*		*05/17/17 22:42*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.77**		0.10	0.026	mg/L			06/06/17 21:37	1
Iodide	ND	*	1.0	0.10	mg/L			05/15/17 19:33	1
Sulfate	**4.1**		0.50	0.050	mg/L			06/06/17 21:37	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**16**	**B**	2.0	0.20	mg/L			05/16/17 21:11	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**19**	**J**	50	15	ug/L		05/15/17 15:35	05/18/17 19:19	5
Iron	**20000**		500	150	ug/L		05/15/17 15:35	05/18/17 19:19	5
Arsenic	ND		50	20	ug/L		05/15/17 15:35	05/18/17 19:19	5
Barium	**770**		250	75	ug/L		05/15/17 15:35	05/18/17 19:19	5
Beryllium	ND		25	7.5	ug/L		05/15/17 15:35	05/18/17 19:19	5
Boron	**340**	**J**	500	130	ug/L		05/15/17 15:35	05/18/17 19:19	5
Cadmium	ND		25	7.5	ug/L		05/15/17 15:35	05/18/17 19:19	5
CaHard	**730000**		12000	3700	ug/L		05/15/17 15:35	05/18/17 19:19	5
Calcium	**290000**		5000	1500	ug/L		05/15/17 15:35	05/18/17 19:19	5
Chromium	ND		50	15	ug/L		05/15/17 15:35	05/18/17 19:19	5
Cobalt	ND		250	75	ug/L		05/15/17 15:35	05/18/17 19:19	5
Copper	ND		130	35	ug/L		05/15/17 15:35	05/18/17 19:19	5
Lead	ND		50	15	ug/L		05/15/17 15:35	05/18/17 19:19	5
Magnesium	**100**		5.0	1.5	mg/L		05/15/17 15:35	05/18/17 19:19	5
Manganese	**640**		75	20	ug/L		05/15/17 15:35	05/18/17 19:19	5
MgHard	**430000**		21000	6200	ug/L		05/15/17 15:35	05/18/17 19:19	5
Nickel	ND		0.20	0.050	mg/L		05/15/17 15:35	05/18/17 19:19	5
Phosphorus	**580**	**J**	1300	380	ug/L		05/15/17 15:35	05/18/17 19:19	5
Selenium	ND		75	40	ug/L		05/15/17 15:35	05/18/17 19:19	5
Silver	ND		50	15	ug/L		05/15/17 15:35	05/18/17 19:19	5
Sodium	**60000**		5000	1500	ug/L		05/15/17 15:35	05/18/17 19:19	5
Thallium	ND		100	25	ug/L		05/15/17 15:35	05/18/17 19:19	5
Total Hardness	**1200000**		33000	9900	ug/L		05/15/17 15:35	05/18/17 19:19	5
Vanadium	ND		250	130	ug/L		05/15/17 15:35	05/18/17 19:19	5
Zinc	ND		100	30	ug/L		05/15/17 15:35	05/18/17 19:19	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		06/05/17 09:53	06/05/17 17:37	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**1300**		10	7.0	mg/L			05/15/17 07:42	1
Ammonia	**520**		50	22	ug/L			06/01/17 00:02	1
Nitrate Nitrite as N	ND		50	22	ug/L			05/25/17 17:43	1

Client Sample ID: PZ-103-SS

Date Collected: 05/09/17 12:12
Date Received: 05/10/17 16:55

Lab Sample ID: 160-22264-4
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	17		5.0	2.4	mg/L		06/01/17 10:06	06/01/17 14:27	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	19		10	7.2	mg/L			06/03/17 18:22	10

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	388		183	186	500	263	pCi/L	06/01/17 12:29	06/01/17 21:10	1

Client Sample ID: PZ-113-SS

Date Collected: 05/09/17 14:34
Date Received: 05/10/17 16:55

Lab Sample ID: 160-22264-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/17/17 23:06	1
Acrylonitrile	ND		50	1.7	ug/L			05/17/17 23:06	1
Benzene	ND		5.0	0.25	ug/L			05/17/17 23:06	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/17/17 23:06	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/17/17 23:06	1
Bromoform	ND		5.0	0.37	ug/L			05/17/17 23:06	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/17/17 23:06	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/17/17 23:06	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/17/17 23:06	1
Chloroethane	ND		10	0.38	ug/L			05/17/17 23:06	1
Chloroform	ND		5.0	0.15	ug/L			05/17/17 23:06	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/17/17 23:06	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/17/17 23:06	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/17/17 23:06	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/17/17 23:06	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/17/17 23:06	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/17/17 23:06	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/17/17 23:06	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/17/17 23:06	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/17/17 23:06	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/17/17 23:06	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/17/17 23:06	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/17/17 23:06	1
2-Hexanone	ND		20	0.59	ug/L			05/17/17 23:06	1
Methyl bromide	ND		10	0.40	ug/L			05/17/17 23:06	1
Methyl chloride	ND		10	0.55	ug/L			05/17/17 23:06	1
Methylene bromide	ND		5.0	0.41	ug/L			05/17/17 23:06	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/17/17 23:06	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/17/17 23:06	1
Methyl iodide	ND		5.0	1.5	ug/L			05/17/17 23:06	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/17/17 23:06	1
Styrene	ND		5.0	0.35	ug/L			05/17/17 23:06	1

Client Sample ID: PZ-113-SS

Date Collected: 05/09/17 14:34
Date Received: 05/10/17 16:55

Lab Sample ID: 160-22264-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/17/17 23:06	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/17/17 23:06	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/17/17 23:06	1
Toluene	ND		5.0	1.0	ug/L			05/17/17 23:06	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/17/17 23:06	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/17/17 23:06	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/17/17 23:06	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/17/17 23:06	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/17/17 23:06	1
Trichloroethene	ND		5.0	0.29	ug/L			05/17/17 23:06	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/17/17 23:06	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/17/17 23:06	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/17/17 23:06	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/17/17 23:06	1
Xylenes, Total	ND		10	0.85	ug/L			05/17/17 23:06	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*71 - 139*		*05/17/17 23:06*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 121*		*05/17/17 23:06*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*76 - 121*		*05/17/17 23:06*	*1*
Toluene-d8 (Surr)	*96*		*80 - 129*		*05/17/17 23:06*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	ND	*	1.0	0.10	mg/L			05/15/17 20:06	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10**	**B**	2.0	0.20	mg/L			05/16/17 21:37	10

Method: 300.0 - Anions, Ion Chromatography - RADL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**2.5**		1.0	0.26	mg/L			06/06/17 22:08	10
Sulfate	**17**		5.0	0.50	mg/L			06/06/17 22:08	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**18**	**J**	50	15	ug/L		05/15/17 15:35	05/18/17 19:23	5
Iron	**860**		500	150	ug/L		05/15/17 15:35	05/18/17 19:23	5
Arsenic	ND		50	20	ug/L		05/15/17 15:35	05/18/17 19:23	5
Barium	**190**	**J**	250	75	ug/L		05/15/17 15:35	05/18/17 19:23	5
Beryllium	ND		25	7.5	ug/L		05/15/17 15:35	05/18/17 19:23	5
Boron	ND		500	130	ug/L		05/15/17 15:35	05/18/17 19:23	5
Cadmium	ND		25	7.5	ug/L		05/15/17 15:35	05/18/17 19:23	5
CaHard	**180000**		12000	3700	ug/L		05/15/17 15:35	05/18/17 19:23	5
Calcium	**73000**		5000	1500	ug/L		05/15/17 15:35	05/18/17 19:23	5
Chromium	ND		50	15	ug/L		05/15/17 15:35	05/18/17 19:23	5
Cobalt	ND		250	75	ug/L		05/15/17 15:35	05/18/17 19:23	5
Copper	ND		130	35	ug/L		05/15/17 15:35	05/18/17 19:23	5
Lead	ND		50	15	ug/L		05/15/17 15:35	05/18/17 19:23	5
Magnesium	**35**		5.0	1.5	mg/L		05/15/17 15:35	05/18/17 19:23	5

Client Sample ID: PZ-113-SS

Lab Sample ID: 160-22264-5
Date Collected: 05/09/17 14:34
Matrix: Water
Date Received: 05/10/17 16:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Manganese	**42**	**J**	75	20	ug/L		05/15/17 15:35	05/18/17 19:23	5
MgHard	**140000**		21000	6200	ug/L		05/15/17 15:35	05/18/17 19:23	5
Nickel	ND		0.20	0.050	mg/L		05/15/17 15:35	05/18/17 19:23	5
Phosphorus	ND		1300	380	ug/L		05/15/17 15:35	05/18/17 19:23	5
Selenium	ND		75	40	ug/L		05/15/17 15:35	05/18/17 19:23	5
Silver	ND		50	15	ug/L		05/15/17 15:35	05/18/17 19:23	5
Sodium	**19000**		5000	1500	ug/L		05/15/17 15:35	05/18/17 19:23	5
Thallium	ND		100	25	ug/L		05/15/17 15:35	05/18/17 19:23	5
Total Hardness	**330000**		33000	9900	ug/L		05/15/17 15:35	05/18/17 19:23	5
Vanadium	ND		250	130	ug/L		05/15/17 15:35	05/18/17 19:23	5
Zinc	ND		100	30	ug/L		05/15/17 15:35	05/18/17 19:23	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		06/05/17 09:53	06/05/17 17:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**330**		5.0	3.5	mg/L			05/15/17 07:42	1
Ammonia	**110**		50	22	ug/L			06/01/17 00:05	1
Nitrate Nitrite as N	ND		50	22	ug/L			05/25/17 17:46	1
Chemical Oxygen Demand	ND		5.0	2.4	mg/L		06/01/17 10:06	06/01/17 14:27	1
Total Organic Carbon	**3.0**		1.0	0.72	mg/L			06/03/17 18:33	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-13.1	U	144	144	500	263	pCi/L	06/01/17 12:29	06/01/17 21:33	1

Client Sample ID: PZ-113-AD

Lab Sample ID: 160-22264-6
Date Collected: 05/09/17 15:32
Matrix: Water
Date Received: 05/10/17 16:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	H	20	6.7	ug/L			05/17/17 23:31	1
Acrylonitrile	ND	H	50	1.7	ug/L			05/17/17 23:31	1
Benzene	**0.83**	**J H**	5.0	0.25	ug/L			05/17/17 23:31	1
Bromochloromethane	ND	H	5.0	0.55	ug/L			05/17/17 23:31	1
Bromodichloromethane	ND	H	5.0	0.25	ug/L			05/17/17 23:31	1
Bromoform	ND	H	5.0	0.37	ug/L			05/17/17 23:31	1
Carbon disulfide	ND	H	5.0	0.37	ug/L			05/17/17 23:31	1
Carbon tetrachloride	ND	H	5.0	0.36	ug/L			05/17/17 23:31	1
Chlorobenzene	**0.95**	**J H**	5.0	0.38	ug/L			05/17/17 23:31	1
Chloroethane	ND	H	10	0.38	ug/L			05/17/17 23:31	1
Chloroform	ND	H	5.0	0.15	ug/L			05/17/17 23:31	1
cis-1,2-Dichloroethene	ND	H	5.0	0.16	ug/L			05/17/17 23:31	1
cis-1,3-Dichloropropene	ND	H	5.0	0.34	ug/L			05/17/17 23:31	1
Dibromochloromethane	ND	H	5.0	0.33	ug/L			05/17/17 23:31	1

Client Sample ID: PZ-113-AD
Date Collected: 05/09/17 15:32
Date Received: 05/10/17 16:55

Lab Sample ID: 160-22264-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromo-3-Chloropropane	ND	H	10	1.2	ug/L			05/17/17 23:31	1
1,2-Dibromoethane (EDB)	ND	H	5.0	0.44	ug/L			05/17/17 23:31	1
1,2-Dichlorobenzene	ND	H	5.0	0.28	ug/L			05/17/17 23:31	1
1,4-Dichlorobenzene	ND	H	5.0	0.35	ug/L			05/17/17 23:31	1
1,1-Dichloroethane	ND	H	5.0	0.39	ug/L			05/17/17 23:31	1
1,2-Dichloroethane	ND	H	5.0	0.37	ug/L			05/17/17 23:31	1
1,1-Dichloroethene	ND	H	5.0	0.37	ug/L			05/17/17 23:31	1
1,2-Dichloropropane	ND	H	5.0	0.32	ug/L			05/17/17 23:31	1
Ethylbenzene	ND	H	5.0	0.30	ug/L			05/17/17 23:31	1
2-Hexanone	ND	H	20	0.59	ug/L			05/17/17 23:31	1
Methyl bromide	ND	H	10	0.40	ug/L			05/17/17 23:31	1
Methyl chloride	ND	H	10	0.55	ug/L			05/17/17 23:31	1
Methylene bromide	ND	H	5.0	0.41	ug/L			05/17/17 23:31	1
Methylene Chloride	ND	H	5.0	1.7	ug/L			05/17/17 23:31	1
Methyl Ethyl Ketone	ND	H	20	0.39	ug/L			05/17/17 23:31	1
Methyl iodide	ND	H	5.0	1.5	ug/L			05/17/17 23:31	1
4-Methyl-2-pentanone (MIBK)	ND	H	20	0.33	ug/L			05/17/17 23:31	1
Styrene	ND	H	5.0	0.35	ug/L			05/17/17 23:31	1
1,1,1,2-Tetrachloroethane	ND	H	5.0	0.25	ug/L			05/17/17 23:31	1
1,1,2,2-Tetrachloroethane	ND	H	5.0	0.43	ug/L			05/17/17 23:31	1
Tetrachloroethene	ND	H	5.0	0.28	ug/L			05/17/17 23:31	1
Toluene	ND	H	5.0	1.0	ug/L			05/17/17 23:31	1
trans-1,4-Dichloro-2-butene	ND	H	10	0.95	ug/L			05/17/17 23:31	1
trans-1,2-Dichloroethene	ND	H	5.0	0.18	ug/L			05/17/17 23:31	1
trans-1,3-Dichloropropene	ND	H	5.0	0.35	ug/L			05/17/17 23:31	1
1,1,1-Trichloroethane	ND	H	5.0	0.29	ug/L			05/17/17 23:31	1
1,1,2-Trichloroethane	ND	H	5.0	0.57	ug/L			05/17/17 23:31	1
Trichloroethene	ND	H	5.0	0.29	ug/L			05/17/17 23:31	1
Trichlorofluoromethane	ND	H	5.0	0.22	ug/L			05/17/17 23:31	1
1,2,3-Trichloropropane	ND	H	5.0	0.56	ug/L			05/17/17 23:31	1
Vinyl acetate	ND	H	5.0	0.61	ug/L			05/17/17 23:31	1
Vinyl chloride	ND	H	5.0	0.43	ug/L			05/17/17 23:31	1
Xylenes, Total	ND	H	10	0.85	ug/L			05/17/17 23:31	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*71 - 139*		*05/17/17 23:31*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 121*		*05/17/17 23:31*	*1*
1,2-Dichloroethane-d4 (Surr)	*113*		*76 - 121*		*05/17/17 23:31*	*1*
Toluene-d8 (Surr)	*99*		*80 - 129*		*05/17/17 23:31*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.14**		0.10	0.026	mg/L			06/06/17 23:25	1
Iodide	**0.61**	**J ***	1.0	0.10	mg/L			05/15/17 22:17	1
Sulfate	**0.57**		0.50	0.050	mg/L			06/06/17 23:25	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**690**	**B**	50	5.0	mg/L			05/16/17 22:03	250

Client Sample ID: PZ-113-AD

Date Collected: 05/09/17 15:32
Date Received: 05/10/17 16:55

Lab Sample ID: 160-22264-6

Matrix: Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	15	J	50	15	ug/L		05/15/17 15:35	05/18/17 19:28	5
Iron	35000		500	150	ug/L		05/15/17 15:35	05/18/17 19:28	5
Arsenic	ND		50	20	ug/L		05/15/17 15:35	05/18/17 19:28	5
Barium	2500		250	75	ug/L		05/15/17 15:35	05/18/17 19:28	5
Beryllium	ND		25	7.5	ug/L		05/15/17 15:35	05/18/17 19:28	5
Boron	1600		500	130	ug/L		05/15/17 15:35	05/18/17 19:28	5
Cadmium	ND		25	7.5	ug/L		05/15/17 15:35	05/18/17 19:28	5
CaHard	720000		12000	3700	ug/L		05/15/17 15:35	05/18/17 19:28	5
Calcium	290000		5000	1500	ug/L		05/15/17 15:35	05/18/17 19:28	5
Chromium	ND		50	15	ug/L		05/15/17 15:35	05/18/17 19:28	5
Cobalt	ND		250	75	ug/L		05/15/17 15:35	05/18/17 19:28	5
Copper	ND		130	35	ug/L		05/15/17 15:35	05/18/17 19:28	5
Lead	ND		50	15	ug/L		05/15/17 15:35	05/18/17 19:28	5
Magnesium	84		5.0	1.5	mg/L		05/15/17 15:35	05/18/17 19:28	5
Manganese	590		75	20	ug/L		05/15/17 15:35	05/18/17 19:28	5
MgHard	350000		21000	6200	ug/L		05/15/17 15:35	05/18/17 19:28	5
Nickel	ND		0.20	0.050	mg/L		05/15/17 15:35	05/18/17 19:28	5
Phosphorus	760	J	1300	380	ug/L		05/15/17 15:35	05/18/17 19:28	5
Selenium	ND		75	40	ug/L		05/15/17 15:35	05/18/17 19:28	5
Silver	ND		50	15	ug/L		05/15/17 15:35	05/18/17 19:28	5
Sodium	480000		5000	1500	ug/L		05/15/17 15:35	05/18/17 19:28	5
Thallium	ND		100	25	ug/L		05/15/17 15:35	05/18/17 19:28	5
Total Hardness	1100000		33000	9900	ug/L		05/15/17 15:35	05/18/17 19:28	5
Vanadium	ND		250	130	ug/L		05/15/17 15:35	05/18/17 19:28	5
Zinc	ND		100	30	ug/L		05/15/17 15:35	05/18/17 19:28	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		06/05/17 09:53	06/05/17 17:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	2400		25	17	mg/L			05/15/17 07:42	1
Nitrate Nitrite as N	ND		50	22	ug/L			05/25/17 17:49	1
Chemical Oxygen Demand	260		10	4.8	mg/L		06/01/17 10:06	06/01/17 14:27	2

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	58000		10000	4500	ug/L			06/01/17 00:07	200
Total Organic Carbon	52		20	14	mg/L			06/03/17 18:47	20

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	375		180	183	500	259	pCi/L	06/01/17 12:29	06/01/17 21:56	1

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22264-1

Client Sample ID: PZ-113-AS
Date Collected: 05/09/17 16:26
Date Received: 05/10/17 16:55

Lab Sample ID: 160-22264-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/17/17 23:56	1
Acrylonitrile	ND		50	1.7	ug/L			05/17/17 23:56	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/17/17 23:56	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/17/17 23:56	1
Bromoform	ND		5.0	0.37	ug/L			05/17/17 23:56	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/17/17 23:56	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/17/17 23:56	1
Chlorobenzene	**110**		5.0	0.38	ug/L			05/17/17 23:56	1
Chloroethane	ND		10	0.38	ug/L			05/17/17 23:56	1
Chloroform	ND		5.0	0.15	ug/L			05/17/17 23:56	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/17/17 23:56	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/17/17 23:56	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/17/17 23:56	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/17/17 23:56	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/17/17 23:56	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/17/17 23:56	1
1,4-Dichlorobenzene	**10**		5.0	0.35	ug/L			05/17/17 23:56	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/17/17 23:56	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/17/17 23:56	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/17/17 23:56	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/17/17 23:56	1
Ethylbenzene	**23**		5.0	0.30	ug/L			05/17/17 23:56	1
2-Hexanone	ND		20	0.59	ug/L			05/17/17 23:56	1
Methyl bromide	ND		10	0.40	ug/L			05/17/17 23:56	1
Methyl chloride	ND		10	0.55	ug/L			05/17/17 23:56	1
Methylene bromide	ND		5.0	0.41	ug/L			05/17/17 23:56	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/17/17 23:56	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/17/17 23:56	1
Methyl iodide	ND		5.0	1.5	ug/L			05/17/17 23:56	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/17/17 23:56	1
Styrene	ND		5.0	0.35	ug/L			05/17/17 23:56	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/17/17 23:56	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/17/17 23:56	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/17/17 23:56	1
Toluene	**23**		5.0	1.0	ug/L			05/17/17 23:56	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/17/17 23:56	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/17/17 23:56	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/17/17 23:56	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/17/17 23:56	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/17/17 23:56	1
Trichloroethene	ND		5.0	0.29	ug/L			05/17/17 23:56	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/17/17 23:56	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/17/17 23:56	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/17/17 23:56	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/17/17 23:56	1
Xylenes, Total	**47**		10	0.85	ug/L			05/17/17 23:56	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*71 - 139*		*05/17/17 23:56*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 121*		*05/17/17 23:56*	*1*

Client Sample ID: PZ-113-AS
Date Collected: 05/09/17 16:26
Date Received: 05/10/17 16:55

Lab Sample ID: 160-22264-7
Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*107*		*76 - 121*		*05/17/17 23:56*	*1*
Toluene-d8 (Surr)	*98*		*80 - 129*		*05/17/17 23:56*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**2500**		100	5.0	ug/L			05/22/17 20:13	20

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*71 - 139*		*05/22/17 20:13*	*20*
Dibromofluoromethane (Surr)	*97*		*80 - 121*		*05/22/17 20:13*	*20*
1,2-Dichloroethane-d4 (Surr)	*82*		*76 - 121*		*05/22/17 20:13*	*20*
Toluene-d8 (Surr)	*99*		*80 - 129*		*05/22/17 20:13*	*20*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.65**		0.10	0.026	mg/L			06/06/17 23:56	1
Iodide	ND	*	1.0	0.10	mg/L			05/15/17 22:50	1
Sulfate	**0.57**		0.50	0.050	mg/L			06/06/17 23:56	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**13**	**B**	2.0	0.20	mg/L			05/16/17 22:30	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**19**	**J**	50	15	ug/L		05/15/17 15:35	05/18/17 19:33	5
Iron	**150000**		500	150	ug/L		05/15/17 15:35	05/18/17 19:33	5
Arsenic	**270**		50	20	ug/L		05/15/17 15:35	05/18/17 19:33	5
Barium	**500**		250	75	ug/L		05/15/17 15:35	05/18/17 19:33	5
Beryllium	ND		25	7.5	ug/L		05/15/17 15:35	05/18/17 19:33	5
Boron	**300**	**J**	500	130	ug/L		05/15/17 15:35	05/18/17 19:33	5
Cadmium	ND		25	7.5	ug/L		05/15/17 15:35	05/18/17 19:33	5
CaHard	**430000**		12000	3700	ug/L		05/15/17 15:35	05/18/17 19:33	5
Calcium	**170000**		5000	1500	ug/L		05/15/17 15:35	05/18/17 19:33	5
Chromium	ND		50	15	ug/L		05/15/17 15:35	05/18/17 19:33	5
Cobalt	ND		250	75	ug/L		05/15/17 15:35	05/18/17 19:33	5
Copper	ND		130	35	ug/L		05/15/17 15:35	05/18/17 19:33	5
Lead	ND		50	15	ug/L		05/15/17 15:35	05/18/17 19:33	5
Magnesium	**61**		5.0	1.5	mg/L		05/15/17 15:35	05/18/17 19:33	5
Manganese	**8700**		75	20	ug/L		05/15/17 15:35	05/18/17 19:33	5
MgHard	**250000**		21000	6200	ug/L		05/15/17 15:35	05/18/17 19:33	5
Nickel	ND		0.20	0.050	mg/L		05/15/17 15:35	05/18/17 19:33	5
Phosphorus	**2200**		1300	380	ug/L		05/15/17 15:35	05/18/17 19:33	5
Selenium	ND		75	40	ug/L		05/15/17 15:35	05/18/17 19:33	5
Silver	ND		50	15	ug/L		05/15/17 15:35	05/18/17 19:33	5
Sodium	**32000**		5000	1500	ug/L		05/15/17 15:35	05/18/17 19:33	5
Thallium	ND		100	25	ug/L		05/15/17 15:35	05/18/17 19:33	5
Total Hardness	**680000**		33000	9900	ug/L		05/15/17 15:35	05/18/17 19:33	5
Vanadium	ND		250	130	ug/L		05/15/17 15:35	05/18/17 19:33	5
Zinc	ND		100	30	ug/L		05/15/17 15:35	05/18/17 19:33	5

Client Sample ID: PZ-113-AS

Date Collected: 05/09/17 16:26
Date Received: 05/10/17 16:55

Lab Sample ID: 160-22264-7
Matrix: Water

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		06/05/17 09:53	06/05/17 17:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**940**		5.0	3.5	mg/L			05/15/17 07:42	1
Nitrate Nitrite as N	ND		50	22	ug/L			05/25/17 17:52	1
Chemical Oxygen Demand	**55**		5.0	2.4	mg/L		06/01/17 10:06	06/01/17 14:27	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**4700**		250	110	ug/L			06/01/17 00:09	5
Total Organic Carbon	**18**		10	7.2	mg/L			06/03/17 18:58	10

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	**325**		178	180	500	265	pCi/L	06/01/17 12:29	06/01/17 22:18	1

Client Sample ID: PZ-112-AS

Date Collected: 05/09/17 17:11
Date Received: 05/10/17 16:55

Lab Sample ID: 160-22264-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/18/17 00:21	1
Acrylonitrile	ND		50	1.7	ug/L			05/18/17 00:21	1
Benzene	**20**		5.0	0.25	ug/L			05/18/17 00:21	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/18/17 00:21	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/18/17 00:21	1
Bromoform	ND		5.0	0.37	ug/L			05/18/17 00:21	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/18/17 00:21	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/18/17 00:21	1
Chlorobenzene	**1400**		50	3.8	ug/L			05/18/17 23:56	10
Chloroethane	ND		10	0.38	ug/L			05/18/17 00:21	1
Chloroform	ND		5.0	0.15	ug/L			05/18/17 00:21	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/18/17 00:21	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/18/17 00:21	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/18/17 00:21	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/18/17 00:21	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/18/17 00:21	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/18/17 00:21	1
1,4-Dichlorobenzene	**11**		5.0	0.35	ug/L			05/18/17 00:21	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/18/17 00:21	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/18/17 00:21	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/18/17 00:21	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/18/17 00:21	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/18/17 00:21	1
2-Hexanone	ND		20	0.59	ug/L			05/18/17 00:21	1
Methyl bromide	ND		10	0.40	ug/L			05/18/17 00:21	1

Client Sample ID: PZ-112-AS

Date Collected: 05/09/17 17:11
Date Received: 05/10/17 16:55

Lab Sample ID: 160-22264-8

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl chloride	ND		10	0.55	ug/L			05/18/17 00:21	1
Methylene bromide	ND		5.0	0.41	ug/L			05/18/17 00:21	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/18/17 00:21	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/18/17 00:21	1
Methyl iodide	ND		5.0	1.5	ug/L			05/18/17 00:21	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/18/17 00:21	1
Styrene	ND		5.0	0.35	ug/L			05/18/17 00:21	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/18/17 00:21	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/18/17 00:21	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/18/17 00:21	1
Toluene	ND		5.0	1.0	ug/L			05/18/17 00:21	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/18/17 00:21	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/18/17 00:21	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/18/17 00:21	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/18/17 00:21	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/18/17 00:21	1
Trichloroethene	ND		5.0	0.29	ug/L			05/18/17 00:21	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/18/17 00:21	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/18/17 00:21	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/18/17 00:21	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/18/17 00:21	1
Xylenes, Total	ND		10	0.85	ug/L			05/18/17 00:21	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*71 - 139*		*05/18/17 00:21*	*1*
4-Bromofluorobenzene (Surr)	*95*		*71 - 139*		*05/18/17 23:56*	*10*
Dibromofluoromethane (Surr)	*105*		*80 - 121*		*05/18/17 00:21*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 121*		*05/18/17 23:56*	*10*
1,2-Dichloroethane-d4 (Surr)	*110*		*76 - 121*		*05/18/17 00:21*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*76 - 121*		*05/18/17 23:56*	*10*
Toluene-d8 (Surr)	*111*		*80 - 129*		*05/18/17 00:21*	*1*
Toluene-d8 (Surr)	*101*		*80 - 129*		*05/18/17 23:56*	*10*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.28**	**H**	0.10	0.026	mg/L			06/07/17 00:27	1
Iodide	**0.10**	**J ***	1.0	0.10	mg/L			05/15/17 23:23	1
Sulfate	**3.4**	**H**	0.50	0.050	mg/L			06/07/17 00:27	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**120**	**B**	10	1.0	mg/L			05/16/17 22:56	50

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**18**	**J**	50	15	ug/L		05/15/17 15:35	05/18/17 19:37	5
Iron	**28000**		500	150	ug/L		05/15/17 15:35	05/18/17 19:37	5
Arsenic	**240**		50	20	ug/L		05/15/17 15:35	05/18/17 19:37	5
Barium	**1700**		250	75	ug/L		05/15/17 15:35	05/18/17 19:37	5
Beryllium	ND		25	7.5	ug/L		05/15/17 15:35	05/18/17 19:37	5

Client Sample ID: PZ-112-AS

Date Collected: 05/09/17 17:11
Date Received: 05/10/17 16:55

Lab Sample ID: 160-22264-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	950		500	130	ug/L		05/15/17 15:35	05/18/17 19:37	5
Cadmium	ND		25	7.5	ug/L		05/15/17 15:35	05/18/17 19:37	5
CaHard	290000		12000	3700	ug/L		05/15/17 15:35	05/18/17 19:37	5
Calcium	120000		5000	1500	ug/L		05/15/17 15:35	05/18/17 19:37	5
Chromium	ND		50	15	ug/L		05/15/17 15:35	05/18/17 19:37	5
Cobalt	ND		250	75	ug/L		05/15/17 15:35	05/18/17 19:37	5
Copper	ND		130	35	ug/L		05/15/17 15:35	05/18/17 19:37	5
Lead	ND		50	15	ug/L		05/15/17 15:35	05/18/17 19:37	5
Magnesium	68		5.0	1.5	mg/L		05/15/17 15:35	05/18/17 19:37	5
Manganese	120		75	20	ug/L		05/15/17 15:35	05/18/17 19:37	5
MgHard	280000		21000	6200	ug/L		05/15/17 15:35	05/18/17 19:37	5
Nickel	ND		0.20	0.050	mg/L		05/15/17 15:35	05/18/17 19:37	5
Phosphorus	1700		1300	380	ug/L		05/15/17 15:35	05/18/17 19:37	5
Selenium	ND		75	40	ug/L		05/15/17 15:35	05/18/17 19:37	5
Silver	ND		50	15	ug/L		05/15/17 15:35	05/18/17 19:37	5
Sodium	100000		5000	1500	ug/L		05/15/17 15:35	05/18/17 19:37	5
Thallium	ND		100	25	ug/L		05/15/17 15:35	05/18/17 19:37	5
Total Hardness	570000		33000	9900	ug/L		05/15/17 15:35	05/18/17 19:37	5
Vanadium	ND		250	130	ug/L		05/15/17 15:35	05/18/17 19:37	5
Zinc	ND		100	30	ug/L		05/15/17 15:35	05/18/17 19:37	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		06/05/17 09:53	06/05/17 17:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	930		10	7.0	mg/L			05/15/17 07:42	1
Nitrate Nitrite as N	ND		50	22	ug/L			05/25/17 17:55	1
Chemical Oxygen Demand	ND		5.0	2.4	mg/L		06/01/17 10:06	06/01/17 14:27	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	140000		10000	4500	ug/L			06/01/17 00:12	200
Total Organic Carbon	20		10	7.2	mg/L			06/03/17 19:26	10

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	150	U	160	161	500	263	pCi/L	06/01/17 12:29	06/01/17 22:41	1

Client Sample ID: MW-12OU

Date Collected: 05/10/17 09:26
Date Received: 05/10/17 16:55

Lab Sample ID: 160-22264-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	30	J	40	13	ug/L			05/19/17 00:21	2
Acrylonitrile	ND		100	3.3	ug/L			05/19/17 00:21	2
Benzene	7.4	J	10	0.50	ug/L			05/19/17 00:21	2

Client Sample ID: MW-12OU
Date Collected: 05/10/17 09:26
Date Received: 05/10/17 16:55

Lab Sample ID: 160-22264-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromochloromethane	ND		10	1.1	ug/L			05/19/17 00:21	2
Bromodichloromethane	ND		10	0.50	ug/L			05/19/17 00:21	2
Bromoform	ND		10	0.74	ug/L			05/19/17 00:21	2
Carbon disulfide	ND		10	0.74	ug/L			05/19/17 00:21	2
Carbon tetrachloride	ND		10	0.72	ug/L			05/19/17 00:21	2
Chlorobenzene	**1.8**	**J**	10	0.76	ug/L			05/19/17 00:21	2
Chloroethane	ND		20	0.76	ug/L			05/19/17 00:21	2
Chloroform	ND		10	0.30	ug/L			05/19/17 00:21	2
cis-1,2-Dichloroethene	ND		10	0.32	ug/L			05/19/17 00:21	2
cis-1,3-Dichloropropene	ND		10	0.68	ug/L			05/19/17 00:21	2
Dibromochloromethane	ND		10	0.66	ug/L			05/19/17 00:21	2
1,2-Dibromo-3-Chloropropane	ND		20	2.3	ug/L			05/19/17 00:21	2
1,2-Dibromoethane (EDB)	ND		10	0.88	ug/L			05/19/17 00:21	2
1,2-Dichlorobenzene	ND		10	0.56	ug/L			05/19/17 00:21	2
1,4-Dichlorobenzene	ND		10	0.70	ug/L			05/19/17 00:21	2
1,1-Dichloroethane	ND		10	0.78	ug/L			05/19/17 00:21	2
1,2-Dichloroethane	ND		10	0.74	ug/L			05/19/17 00:21	2
1,1-Dichloroethene	ND		10	0.74	ug/L			05/19/17 00:21	2
1,2-Dichloropropane	ND		10	0.64	ug/L			05/19/17 00:21	2
Ethylbenzene	ND		10	0.60	ug/L			05/19/17 00:21	2
2-Hexanone	ND		40	1.2	ug/L			05/19/17 00:21	2
Methyl bromide	ND		20	0.80	ug/L			05/19/17 00:21	2
Methyl chloride	ND		20	1.1	ug/L			05/19/17 00:21	2
Methylene bromide	ND		10	0.82	ug/L			05/19/17 00:21	2
Methylene Chloride	ND		10	3.3	ug/L			05/19/17 00:21	2
Methyl Ethyl Ketone	ND		40	0.78	ug/L			05/19/17 00:21	2
Methyl iodide	ND		10	3.0	ug/L			05/19/17 00:21	2
4-Methyl-2-pentanone (MIBK)	**15**	**J**	40	0.66	ug/L			05/19/17 00:21	2
Styrene	ND		10	0.70	ug/L			05/19/17 00:21	2
1,1,1,2-Tetrachloroethane	ND		10	0.50	ug/L			05/19/17 00:21	2
1,1,2,2-Tetrachloroethane	ND		10	0.86	ug/L			05/19/17 00:21	2
Tetrachloroethene	ND		10	0.56	ug/L			05/19/17 00:21	2
Toluene	**310**		10	2.0	ug/L			05/19/17 00:21	2
trans-1,4-Dichloro-2-butene	ND		20	1.9	ug/L			05/19/17 00:21	2
trans-1,2-Dichloroethene	ND		10	0.36	ug/L			05/19/17 00:21	2
trans-1,3-Dichloropropene	ND		10	0.70	ug/L			05/19/17 00:21	2
1,1,1-Trichloroethane	ND		10	0.58	ug/L			05/19/17 00:21	2
1,1,2-Trichloroethane	ND		10	1.1	ug/L			05/19/17 00:21	2
Trichloroethene	ND		10	0.58	ug/L			05/19/17 00:21	2
Trichlorofluoromethane	ND		10	0.44	ug/L			05/19/17 00:21	2
1,2,3-Trichloropropane	ND		10	1.1	ug/L			05/19/17 00:21	2
Vinyl acetate	ND		10	1.2	ug/L			05/19/17 00:21	2
Vinyl chloride	ND		10	0.86	ug/L			05/19/17 00:21	2
Xylenes, Total	ND		20	1.7	ug/L			05/19/17 00:21	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*88*		*71 - 139*		*05/19/17 00:21*	*2*
Dibromofluoromethane (Surr)	*123*	*X*	*80 - 121*		*05/19/17 00:21*	*2*
1,2-Dichloroethane-d4 (Surr)	*118*		*76 - 121*		*05/19/17 00:21*	*2*
Toluene-d8 (Surr)	*95*		*80 - 129*		*05/19/17 00:21*	*2*

Client Sample Results

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22264-1

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	2.0		0.10	0.026	mg/L			06/07/17 00:58	1
Sulfate	0.87		0.50	0.050	mg/L			06/07/17 00:58	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	600	B	50	5.0	mg/L			05/16/17 23:23	250
Iodide	1.3	J *	2.0	0.20	mg/L			05/16/17 00:29	2

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	18	J	50	15	ug/L		05/15/17 15:35	05/18/17 19:42	5
Iron	11000		500	150	ug/L		05/15/17 15:35	05/18/17 19:42	5
Arsenic	ND		50	20	ug/L		05/15/17 15:35	05/18/17 19:42	5
Barium	6000		250	75	ug/L		05/15/17 15:35	05/18/17 19:42	5
Beryllium	ND		25	7.5	ug/L		05/15/17 15:35	05/18/17 19:42	5
Boron	1900		500	130	ug/L		05/15/17 15:35	05/18/17 19:42	5
Cadmium	ND		25	7.5	ug/L		05/15/17 15:35	05/18/17 19:42	5
CaHard	790000		12000	3700	ug/L		05/15/17 15:35	05/18/17 19:42	5
Calcium	320000		5000	1500	ug/L		05/15/17 15:35	05/18/17 19:42	5
Chromium	42	J	50	15	ug/L		05/15/17 15:35	05/18/17 19:42	5
Cobalt	ND		250	75	ug/L		05/15/17 15:35	05/18/17 19:42	5
Copper	ND		130	35	ug/L		05/15/17 15:35	05/18/17 19:42	5
Lead	ND		50	15	ug/L		05/15/17 15:35	05/18/17 19:42	5
Magnesium	120		5.0	1.5	mg/L		05/15/17 15:35	05/18/17 19:42	5
Manganese	500		75	20	ug/L		05/15/17 15:35	05/18/17 19:42	5
MgHard	490000		21000	6200	ug/L		05/15/17 15:35	05/18/17 19:42	5
Nickel	ND		0.20	0.050	mg/L		05/15/17 15:35	05/18/17 19:42	5
Phosphorus	ND		1300	380	ug/L		05/15/17 15:35	05/18/17 19:42	5
Selenium	ND		75	40	ug/L		05/15/17 15:35	05/18/17 19:42	5
Silver	ND		50	15	ug/L		05/15/17 15:35	05/18/17 19:42	5
Sodium	310000		5000	1500	ug/L		05/15/17 15:35	05/18/17 19:42	5
Thallium	ND		100	25	ug/L		05/15/17 15:35	05/18/17 19:42	5
Total Hardness	1300000		33000	9900	ug/L		05/15/17 15:35	05/18/17 19:42	5
Vanadium	ND		250	130	ug/L		05/15/17 15:35	05/18/17 19:42	5
Zinc	ND		100	30	ug/L		05/15/17 15:35	05/18/17 19:42	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		06/05/17 09:53	06/05/17 17:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	2700		25	17	mg/L			05/16/17 07:19	1
Nitrate Nitrite as N	41	J	50	22	ug/L			05/25/17 17:59	1
Chemical Oxygen Demand	790		50	24	mg/L		06/01/17 10:06	06/01/17 14:27	10

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	86000		10000	4500	ug/L			06/01/17 00:14	200
Total Organic Carbon	220		100	72	mg/L			06/03/17 19:40	100

Client Sample ID: MW-12OU

Lab Sample ID: 160-22264-9

Date Collected: 05/10/17 09:26

Matrix: Water

Date Received: 05/10/17 16:55

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	6200		464	716	500	260	pCi/L	06/01/17 12:29	06/01/17 23:04	1

Client Sample ID: I-73

Lab Sample ID: 160-22264-10

Date Collected: 05/10/17 11:01

Matrix: Water

Date Received: 05/10/17 16:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		40	13	ug/L			05/19/17 00:45	2
Acrylonitrile	ND		100	3.3	ug/L			05/19/17 00:45	2
Benzene	210		10	0.50	ug/L			05/19/17 00:45	2
Bromochloromethane	ND		10	1.1	ug/L			05/19/17 00:45	2
Bromodichloromethane	ND		10	0.50	ug/L			05/19/17 00:45	2
Bromoform	ND		10	0.74	ug/L			05/19/17 00:45	2
Carbon disulfide	ND		10	0.74	ug/L			05/19/17 00:45	2
Carbon tetrachloride	ND		10	0.72	ug/L			05/19/17 00:45	2
Chlorobenzene	15		10	0.76	ug/L			05/19/17 00:45	2
Chloroethane	ND		20	0.76	ug/L			05/19/17 00:45	2
Chloroform	ND		10	0.30	ug/L			05/19/17 00:45	2
cis-1,2-Dichloroethene	ND		10	0.32	ug/L			05/19/17 00:45	2
cis-1,3-Dichloropropene	ND		10	0.68	ug/L			05/19/17 00:45	2
Dibromochloromethane	ND		10	0.66	ug/L			05/19/17 00:45	2
1,2-Dibromo-3-Chloropropane	ND		20	2.3	ug/L			05/19/17 00:45	2
1,2-Dibromoethane (EDB)	ND		10	0.88	ug/L			05/19/17 00:45	2
1,2-Dichlorobenzene	ND		10	0.56	ug/L			05/19/17 00:45	2
1,4-Dichlorobenzene	1.9	J	10	0.70	ug/L			05/19/17 00:45	2
1,1-Dichloroethane	ND		10	0.78	ug/L			05/19/17 00:45	2
1,2-Dichloroethane	ND		10	0.74	ug/L			05/19/17 00:45	2
1,1-Dichloroethene	ND		10	0.74	ug/L			05/19/17 00:45	2
1,2-Dichloropropane	ND		10	0.64	ug/L			05/19/17 00:45	2
Ethylbenzene	1.4	J	10	0.60	ug/L			05/19/17 00:45	2
2-Hexanone	ND		40	1.2	ug/L			05/19/17 00:45	2
Methyl bromide	ND		20	0.80	ug/L			05/19/17 00:45	2
Methyl chloride	ND		20	1.1	ug/L			05/19/17 00:45	2
Methylene bromide	ND		10	0.82	ug/L			05/19/17 00:45	2
Methylene Chloride	ND		10	3.3	ug/L			05/19/17 00:45	2
Methyl Ethyl Ketone	ND		40	0.78	ug/L			05/19/17 00:45	2
Methyl iodide	ND		10	3.0	ug/L			05/19/17 00:45	2
4-Methyl-2-pentanone (MIBK)	ND		40	0.66	ug/L			05/19/17 00:45	2
Styrene	ND		10	0.70	ug/L			05/19/17 00:45	2
1,1,1,2-Tetrachloroethane	ND		10	0.50	ug/L			05/19/17 00:45	2
1,1,2,2-Tetrachloroethane	ND		10	0.86	ug/L			05/19/17 00:45	2
Tetrachloroethene	ND		10	0.56	ug/L			05/19/17 00:45	2
Toluene	4.6	J	10	2.0	ug/L			05/19/17 00:45	2
trans-1,4-Dichloro-2-butene	ND		20	1.9	ug/L			05/19/17 00:45	2
trans-1,2-Dichloroethene	ND		10	0.36	ug/L			05/19/17 00:45	2
trans-1,3-Dichloropropene	ND		10	0.70	ug/L			05/19/17 00:45	2
1,1,1-Trichloroethane	ND		10	0.58	ug/L			05/19/17 00:45	2

Client Sample ID: I-73
Date Collected: 05/10/17 11:01
Date Received: 05/10/17 16:55

Lab Sample ID: 160-22264-10
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-Trichloroethane	ND		10	1.1	ug/L			05/19/17 00:45	2
Trichloroethene	ND		10	0.58	ug/L			05/19/17 00:45	2
Trichlorofluoromethane	ND		10	0.44	ug/L			05/19/17 00:45	2
1,2,3-Trichloropropane	ND		10	1.1	ug/L			05/19/17 00:45	2
Vinyl acetate	ND		10	1.2	ug/L			05/19/17 00:45	2
Vinyl chloride	ND		10	0.86	ug/L			05/19/17 00:45	2
Xylenes, Total	**7.7**	**J**	20	1.7	ug/L			05/19/17 00:45	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*71 - 139*		*05/19/17 00:45*	*2*
Dibromofluoromethane (Surr)	*107*		*80 - 121*		*05/19/17 00:45*	*2*
1,2-Dichloroethane-d4 (Surr)	*105*		*76 - 121*		*05/19/17 00:45*	*2*
Toluene-d8 (Surr)	*92*		*80 - 129*		*05/19/17 00:45*	*2*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.35**		0.10	0.026	mg/L			06/07/17 01:28	1
Sulfate	**1.0**		0.50	0.050	mg/L			06/07/17 01:28	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**530**	**B**	50	5.0	mg/L			05/16/17 23:49	250
Iodide	**1.8**	**J ***	2.0	0.20	mg/L			05/16/17 01:02	2

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**17**	**J**	50	15	ug/L		05/15/17 15:35	05/18/17 19:46	5
Iron	**35000**		500	150	ug/L		05/15/17 15:35	05/18/17 19:46	5
Arsenic	**130**		50	20	ug/L		05/15/17 15:35	05/18/17 19:46	5
Barium	**1500**		250	75	ug/L		05/15/17 15:35	05/18/17 19:46	5
Beryllium	ND		25	7.5	ug/L		05/15/17 15:35	05/18/17 19:46	5
Boron	**3000**		500	130	ug/L		05/15/17 15:35	05/18/17 19:46	5
Cadmium	**15**	**J**	25	7.5	ug/L		05/15/17 15:35	05/18/17 19:46	5
CaHard	**280000**		12000	3700	ug/L		05/15/17 15:35	05/18/17 19:46	5
Calcium	**110000**		5000	1500	ug/L		05/15/17 15:35	05/18/17 19:46	5
Chromium	**25**	**J**	50	15	ug/L		05/15/17 15:35	05/18/17 19:46	5
Cobalt	ND		250	75	ug/L		05/15/17 15:35	05/18/17 19:46	5
Copper	ND		130	35	ug/L		05/15/17 15:35	05/18/17 19:46	5
Lead	**28**	**J**	50	15	ug/L		05/15/17 15:35	05/18/17 19:46	5
Magnesium	**54**		5.0	1.5	mg/L		05/15/17 15:35	05/18/17 19:46	5
Manganese	**240**		75	20	ug/L		05/15/17 15:35	05/18/17 19:46	5
MgHard	**220000**		21000	6200	ug/L		05/15/17 15:35	05/18/17 19:46	5
Nickel	**0.091**	**J**	0.20	0.050	mg/L		05/15/17 15:35	05/18/17 19:46	5
Phosphorus	**1300**		1300	380	ug/L		05/15/17 15:35	05/18/17 19:46	5
Selenium	ND		75	40	ug/L		05/15/17 15:35	05/18/17 19:46	5
Silver	ND		50	15	ug/L		05/15/17 15:35	05/18/17 19:46	5
Sodium	**300000**		5000	1500	ug/L		05/15/17 15:35	05/18/17 19:46	5
Thallium	ND		100	25	ug/L		05/15/17 15:35	05/18/17 19:46	5
Total Hardness	**500000**		33000	9900	ug/L		05/15/17 15:35	05/18/17 19:46	5
Vanadium	ND		250	130	ug/L		05/15/17 15:35	05/18/17 19:46	5

Client Sample ID: I-73

Lab Sample ID: 160-22264-10
Matrix: Water
Date Collected: 05/10/17 11:01
Date Received: 05/10/17 16:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Zinc	240		100	30	ug/L		05/15/17 15:35	05/18/17 19:46	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		06/05/17 09:53	06/05/17 17:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	1600		25	17	mg/L			05/16/17 07:19	1
Nitrate Nitrite as N	25	J	50	22	ug/L			05/25/17 18:02	1
Chemical Oxygen Demand	340		50	24	mg/L		06/01/17 10:06	06/01/17 14:27	10

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	240000		10000	4500	ug/L			06/01/17 00:17	200
Total Organic Carbon	88		50	36	mg/L			06/03/17 19:51	50

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	6650		480	757	500	263	pCi/L	06/01/17 12:29	06/01/17 23:26	1

Client Sample ID: PZ-203-SS

Lab Sample ID: 160-22264-11
Matrix: Water
Date Collected: 05/10/17 12:07
Date Received: 05/10/17 16:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/18/17 00:45	1
Acrylonitrile	ND		50	1.7	ug/L			05/18/17 00:45	1
Benzene	ND		5.0	0.25	ug/L			05/18/17 00:45	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/18/17 00:45	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/18/17 00:45	1
Bromoform	ND		5.0	0.37	ug/L			05/18/17 00:45	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/18/17 00:45	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/18/17 00:45	1
Chlorobenzene	1.7	J	5.0	0.38	ug/L			05/18/17 00:45	1
Chloroethane	ND		10	0.38	ug/L			05/18/17 00:45	1
Chloroform	ND		5.0	0.15	ug/L			05/18/17 00:45	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/18/17 00:45	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/18/17 00:45	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/18/17 00:45	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/18/17 00:45	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/18/17 00:45	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/18/17 00:45	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/18/17 00:45	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/18/17 00:45	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/18/17 00:45	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/18/17 00:45	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/18/17 00:45	1

Client Sample ID: PZ-203-SS
Date Collected: 05/10/17 12:07
Date Received: 05/10/17 16:55

Lab Sample ID: 160-22264-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ethylbenzene	ND		5.0	0.30	ug/L			05/18/17 00:45	1
2-Hexanone	ND		20	0.59	ug/L			05/18/17 00:45	1
Methyl bromide	ND		10	0.40	ug/L			05/18/17 00:45	1
Methyl chloride	ND		10	0.55	ug/L			05/18/17 00:45	1
Methylene bromide	ND		5.0	0.41	ug/L			05/18/17 00:45	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/18/17 00:45	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/18/17 00:45	1
Methyl iodide	ND		5.0	1.5	ug/L			05/18/17 00:45	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/18/17 00:45	1
Styrene	ND		5.0	0.35	ug/L			05/18/17 00:45	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/18/17 00:45	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/18/17 00:45	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/18/17 00:45	1
Toluene	ND		5.0	1.0	ug/L			05/18/17 00:45	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/18/17 00:45	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/18/17 00:45	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/18/17 00:45	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/18/17 00:45	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/18/17 00:45	1
Trichloroethene	ND		5.0	0.29	ug/L			05/18/17 00:45	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/18/17 00:45	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/18/17 00:45	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/18/17 00:45	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/18/17 00:45	1
Xylenes, Total	ND		10	0.85	ug/L			05/18/17 00:45	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*71 - 139*		*05/18/17 00:45*	*1*
Dibromofluoromethane (Surr)	*107*		*80 - 121*		*05/18/17 00:45*	*1*
1,2-Dichloroethane-d4 (Surr)	*116*		*76 - 121*		*05/18/17 00:45*	*1*
Toluene-d8 (Surr)	*99*		*80 - 129*		*05/18/17 00:45*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.44**		0.10	0.026	mg/L			06/07/17 02:30	1
Iodide	ND	*	1.0	0.10	mg/L			05/16/17 01:34	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**7.5**	**B**	2.0	0.20	mg/L			05/17/17 00:16	10

Method: 300.0 - Anions, Ion Chromatography - RADL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**44**		10	1.0	mg/L			06/07/17 02:45	20

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**19**	**J**	50	15	ug/L		05/15/17 15:35	05/18/17 19:51	5
Iron	**2600**		500	150	ug/L		05/15/17 15:35	05/18/17 19:51	5
Arsenic	ND		50	20	ug/L		05/15/17 15:35	05/18/17 19:51	5
Barium	**99**	**J**	250	75	ug/L		05/15/17 15:35	05/18/17 19:51	5

Client Sample ID: PZ-203-SS

Date Collected: 05/10/17 12:07
Date Received: 05/10/17 16:55

Lab Sample ID: 160-22264-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		25	7.5	ug/L		05/15/17 15:35	05/18/17 19:51	5
Boron	**190**	**J**	500	130	ug/L		05/15/17 15:35	05/18/17 19:51	5
Cadmium	ND		25	7.5	ug/L		05/15/17 15:35	05/18/17 19:51	5
CaHard	**260000**		12000	3700	ug/L		05/15/17 15:35	05/18/17 19:51	5
Calcium	**100000**		5000	1500	ug/L		05/15/17 15:35	05/18/17 19:51	5
Chromium	ND		50	15	ug/L		05/15/17 15:35	05/18/17 19:51	5
Cobalt	ND		250	75	ug/L		05/15/17 15:35	05/18/17 19:51	5
Copper	ND		130	35	ug/L		05/15/17 15:35	05/18/17 19:51	5
Lead	ND		50	15	ug/L		05/15/17 15:35	05/18/17 19:51	5
Magnesium	**43**		5.0	1.5	mg/L		05/15/17 15:35	05/18/17 19:51	5
Manganese	ND		75	20	ug/L		05/15/17 15:35	05/18/17 19:51	5
MgHard	**180000**		21000	6200	ug/L		05/15/17 15:35	05/18/17 19:51	5
Nickel	ND		0.20	0.050	mg/L		05/15/17 15:35	05/18/17 19:51	5
Phosphorus	ND		1300	380	ug/L		05/15/17 15:35	05/18/17 19:51	5
Selenium	ND		75	40	ug/L		05/15/17 15:35	05/18/17 19:51	5
Silver	ND		50	15	ug/L		05/15/17 15:35	05/18/17 19:51	5
Sodium	**12000**		5000	1500	ug/L		05/15/17 15:35	05/18/17 19:51	5
Thallium	ND		100	25	ug/L		05/15/17 15:35	05/18/17 19:51	5
Total Hardness	**440000**		33000	9900	ug/L		05/15/17 15:35	05/18/17 19:51	5
Vanadium	ND		250	130	ug/L		05/15/17 15:35	05/18/17 19:51	5
Zinc	ND		100	30	ug/L		05/15/17 15:35	05/18/17 19:51	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		06/05/17 09:53	06/05/17 17:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**460**		5.0	3.5	mg/L			05/16/17 07:19	1
Ammonia	**160**		50	22	ug/L			06/01/17 00:19	1
Nitrate Nitrite as N	ND		50	22	ug/L			05/25/17 18:05	1
Chemical Oxygen Demand	**19**		5.0	2.4	mg/L		06/01/17 10:06	06/01/17 14:27	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**7.7**		2.0	1.4	mg/L			06/03/17 20:39	2

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-52.7	U	140	140	500	263	pCi/L	06/01/17 12:29	06/01/17 23:49	1

Client Sample ID: PZ-302-AS

Date Collected: 05/10/17 13:55
Date Received: 05/10/17 16:55

Lab Sample ID: 160-22264-12
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**14**	**J**	20	6.7	ug/L			05/18/17 01:10	1
Acrylonitrile	ND		50	1.7	ug/L			05/18/17 01:10	1

Client Sample ID: PZ-302-AS
Date Collected: 05/10/17 13:55
Date Received: 05/10/17 16:55

Lab Sample ID: 160-22264-12
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	ND		5.0	0.25	ug/L			05/18/17 01:10	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/18/17 01:10	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/18/17 01:10	1
Bromoform	ND		5.0	0.37	ug/L			05/18/17 01:10	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/18/17 01:10	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/18/17 01:10	1
Chlorobenzene	**0.56**	**J**	5.0	0.38	ug/L			05/18/17 01:10	1
Chloroethane	ND		10	0.38	ug/L			05/18/17 01:10	1
Chloroform	ND		5.0	0.15	ug/L			05/18/17 01:10	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/18/17 01:10	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/18/17 01:10	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/18/17 01:10	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/18/17 01:10	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/18/17 01:10	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/18/17 01:10	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/18/17 01:10	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/18/17 01:10	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/18/17 01:10	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/18/17 01:10	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/18/17 01:10	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/18/17 01:10	1
2-Hexanone	ND		20	0.59	ug/L			05/18/17 01:10	1
Methyl bromide	ND		10	0.40	ug/L			05/18/17 01:10	1
Methyl chloride	ND		10	0.55	ug/L			05/18/17 01:10	1
Methylene bromide	ND		5.0	0.41	ug/L			05/18/17 01:10	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/18/17 01:10	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/18/17 01:10	1
Methyl iodide	ND		5.0	1.5	ug/L			05/18/17 01:10	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/18/17 01:10	1
Styrene	ND		5.0	0.35	ug/L			05/18/17 01:10	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/18/17 01:10	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/18/17 01:10	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/18/17 01:10	1
Toluene	ND		5.0	1.0	ug/L			05/18/17 01:10	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/18/17 01:10	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/18/17 01:10	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/18/17 01:10	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/18/17 01:10	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/18/17 01:10	1
Trichloroethene	ND		5.0	0.29	ug/L			05/18/17 01:10	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/18/17 01:10	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/18/17 01:10	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/18/17 01:10	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/18/17 01:10	1
Xylenes, Total	ND		10	0.85	ug/L			05/18/17 01:10	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*71 - 139*		*05/18/17 01:10*	*1*
Dibromofluoromethane (Surr)	*110*		*80 - 121*		*05/18/17 01:10*	*1*
1,2-Dichloroethane-d4 (Surr)	*116*		*76 - 121*		*05/18/17 01:10*	*1*

Client Sample ID: PZ-302-AS

Date Collected: 05/10/17 13:55
Date Received: 05/10/17 16:55

Lab Sample ID: 160-22264-12

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Toluene-d8 (Surr)	*99*		*80 - 129*		*05/18/17 01:10*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.22**		0.10	0.026	mg/L			06/07/17 03:01	1
Iodide	**0.48**	**J ***	1.0	0.10	mg/L			05/16/17 02:07	1
Sulfate	**11**		0.50	0.050	mg/L			06/07/17 03:01	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**100**	**B**	10	1.0	mg/L			05/17/17 00:42	50

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	**18**	**J**	50	15	ug/L		05/15/17 15:35	05/18/17 19:55	5
Iron	**2100**		500	150	ug/L		05/15/17 15:35	05/18/17 19:55	5
Arsenic	ND		50	20	ug/L		05/15/17 15:35	05/18/17 19:55	5
Barium	**700**		250	75	ug/L		05/15/17 15:35	05/18/17 19:55	5
Beryllium	ND		25	7.5	ug/L		05/15/17 15:35	05/18/17 19:55	5
Boron	**400**	**J**	500	130	ug/L		05/15/17 15:35	05/18/17 19:55	5
Cadmium	ND		25	7.5	ug/L		05/15/17 15:35	05/18/17 19:55	5
CaHard	**460000**		12000	3700	ug/L		05/15/17 15:35	05/18/17 19:55	5
Calcium	**190000**		5000	1500	ug/L		05/15/17 15:35	05/18/17 19:55	5
Chromium	ND		50	15	ug/L		05/15/17 15:35	05/18/17 19:55	5
Cobalt	ND		250	75	ug/L		05/15/17 15:35	05/18/17 19:55	5
Copper	ND		130	35	ug/L		05/15/17 15:35	05/18/17 19:55	5
Lead	ND		50	15	ug/L		05/15/17 15:35	05/18/17 19:55	5
Magnesium	**47**		5.0	1.5	mg/L		05/15/17 15:35	05/18/17 19:55	5
Manganese	**3900**		75	20	ug/L		05/15/17 15:35	05/18/17 19:55	5
MgHard	**200000**		21000	6200	ug/L		05/15/17 15:35	05/18/17 19:55	5
Nickel	ND		0.20	0.050	mg/L		05/15/17 15:35	05/18/17 19:55	5
Phosphorus	ND		1300	380	ug/L		05/15/17 15:35	05/18/17 19:55	5
Selenium	ND		75	40	ug/L		05/15/17 15:35	05/18/17 19:55	5
Silver	ND		50	15	ug/L		05/15/17 15:35	05/18/17 19:55	5
Sodium	**67000**		5000	1500	ug/L		05/15/17 15:35	05/18/17 19:55	5
Thallium	ND		100	25	ug/L		05/15/17 15:35	05/18/17 19:55	5
Total Hardness	**660000**		33000	9900	ug/L		05/15/17 15:35	05/18/17 19:55	5
Vanadium	ND		250	130	ug/L		05/15/17 15:35	05/18/17 19:55	5
Zinc	ND		100	30	ug/L		05/15/17 15:35	05/18/17 19:55	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		06/05/17 09:53	06/05/17 17:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**870**		5.0	3.5	mg/L			05/16/17 07:19	1
Ammonia	**980**	**F1**	50	22	ug/L			06/06/17 17:06	1
Nitrate Nitrite as N	ND	F1	50	22	ug/L			06/06/17 17:38	1
Chemical Oxygen Demand	**26**		5.0	2.4	mg/L		06/01/17 10:06	06/01/17 14:27	1

Client Sample ID: PZ-302-AS

Lab Sample ID: 160-22264-12
Date Collected: 05/10/17 13:55
Matrix: Water
Date Received: 05/10/17 16:55

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**9.2**		2.0	1.4	mg/L			06/03/17 20:50	2

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	102	U	154	154	500	258	pCi/L	06/01/17 12:29	06/02/17 00:14	1

Client Sample ID: PZ-302-AI

Lab Sample ID: 160-22264-13
Date Collected: 05/10/17 15:37
Matrix: Water
Date Received: 05/10/17 16:55

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/18/17 01:35	1
Acrylonitrile	ND		50	1.7	ug/L			05/18/17 01:35	1
Benzene	**4.8**	**J**	5.0	0.25	ug/L			05/18/17 01:35	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/18/17 01:35	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/18/17 01:35	1
Bromoform	ND		5.0	0.37	ug/L			05/18/17 01:35	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/18/17 01:35	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/18/17 01:35	1
Chlorobenzene	**2.8**	**J**	5.0	0.38	ug/L			05/18/17 01:35	1
Chloroethane	ND		10	0.38	ug/L			05/18/17 01:35	1
Chloroform	ND		5.0	0.15	ug/L			05/18/17 01:35	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/18/17 01:35	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/18/17 01:35	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/18/17 01:35	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/18/17 01:35	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/18/17 01:35	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/18/17 01:35	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/18/17 01:35	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/18/17 01:35	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/18/17 01:35	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/18/17 01:35	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/18/17 01:35	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/18/17 01:35	1
2-Hexanone	ND		20	0.59	ug/L			05/18/17 01:35	1
Methyl bromide	ND		10	0.40	ug/L			05/18/17 01:35	1
Methyl chloride	ND		10	0.55	ug/L			05/18/17 01:35	1
Methylene bromide	ND		5.0	0.41	ug/L			05/18/17 01:35	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/18/17 01:35	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/18/17 01:35	1
Methyl iodide	ND		5.0	1.5	ug/L			05/18/17 01:35	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/18/17 01:35	1
Styrene	ND		5.0	0.35	ug/L			05/18/17 01:35	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/18/17 01:35	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/18/17 01:35	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/18/17 01:35	1
Toluene	ND		5.0	1.0	ug/L			05/18/17 01:35	1

Client Sample ID: PZ-302-AI
Date Collected: 05/10/17 15:37
Date Received: 05/10/17 16:55

Lab Sample ID: 160-22264-13
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/18/17 01:35	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/18/17 01:35	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/18/17 01:35	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/18/17 01:35	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/18/17 01:35	1
Trichloroethene	ND		5.0	0.29	ug/L			05/18/17 01:35	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/18/17 01:35	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/18/17 01:35	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/18/17 01:35	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/18/17 01:35	1
Xylenes, Total	ND		10	0.85	ug/L			05/18/17 01:35	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*71 - 139*		*05/18/17 01:35*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 121*		*05/18/17 01:35*	*1*
1,2-Dichloroethane-d4 (Surr)	*116*		*76 - 121*		*05/18/17 01:35*	*1*
Toluene-d8 (Surr)	*100*		*80 - 129*		*05/18/17 01:35*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.18**		0.10	0.026	mg/L			06/07/17 03:32	1
Iodide	**0.10**	**J ***	1.0	0.10	mg/L			05/16/17 02:40	1
Sulfate	**16**	**F1**	0.50	0.050	mg/L			06/07/17 03:32	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**30**	**B**	5.0	0.50	mg/L			05/17/17 01:08	25

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		50	15	ug/L		05/15/17 15:35	05/18/17 20:13	5
Iron	**3100**		500	150	ug/L		05/15/17 15:35	05/18/17 20:13	5
Arsenic	ND		50	20	ug/L		05/15/17 15:35	05/18/17 20:13	5
Barium	**470**		250	75	ug/L		05/15/17 15:35	05/18/17 20:13	5
Beryllium	ND		25	7.5	ug/L		05/15/17 15:35	05/18/17 20:13	5
Boron	**370**	**J**	500	130	ug/L		05/15/17 15:35	05/18/17 20:13	5
Cadmium	ND		25	7.5	ug/L		05/15/17 15:35	05/18/17 20:13	5
CaHard	**630000**		12000	3700	ug/L		05/15/17 15:35	05/18/17 20:13	5
Calcium	**250000**		5000	1500	ug/L		05/15/17 15:35	05/18/17 20:13	5
Chromium	ND		50	15	ug/L		05/15/17 15:35	05/18/17 20:13	5
Cobalt	ND		250	75	ug/L		05/15/17 15:35	05/18/17 20:13	5
Copper	ND		130	35	ug/L		05/15/17 15:35	05/18/17 20:13	5
Lead	ND		50	15	ug/L		05/15/17 15:35	05/18/17 20:13	5
Magnesium	**64**		5.0	1.5	mg/L		05/15/17 15:35	05/18/17 20:13	5
Manganese	**510**		75	20	ug/L		05/15/17 15:35	05/18/17 20:13	5
MgHard	**260000**		21000	6200	ug/L		05/15/17 15:35	05/18/17 20:13	5
Nickel	ND		0.20	0.050	mg/L		05/15/17 15:35	05/18/17 20:13	5
Phosphorus	ND		1300	380	ug/L		05/15/17 15:35	05/18/17 20:13	5
Selenium	ND		75	40	ug/L		05/15/17 15:35	05/18/17 20:13	5
Silver	ND		50	15	ug/L		05/15/17 15:35	05/18/17 20:13	5

Client Sample ID: PZ-302-AI

Date Collected: 05/10/17 15:37
Date Received: 05/10/17 16:55

Lab Sample ID: 160-22264-13

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**55000**		5000	1500	ug/L		05/15/17 15:35	05/18/17 20:13	5
Thallium	ND		100	25	ug/L		05/15/17 15:35	05/18/17 20:13	5
Total Hardness	**890000**		33000	9900	ug/L		05/15/17 15:35	05/18/17 20:13	5
Vanadium	ND		250	130	ug/L		05/15/17 15:35	05/18/17 20:13	5
Zinc	ND		100	30	ug/L		05/15/17 15:35	05/18/17 20:13	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		06/05/17 09:53	06/05/17 18:00	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**960**		5.0	3.5	mg/L			05/16/17 07:19	1
Ammonia	**90**		50	22	ug/L			06/06/17 17:13	1
Nitrate Nitrite as N	ND		50	22	ug/L			06/06/17 17:48	1
Chemical Oxygen Demand	**14**		5.0	2.4	mg/L		06/01/17 10:06	06/01/17 14:27	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**11**		2.0	1.4	mg/L			06/03/17 21:02	2

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	163	U	160	161	500	260	pCi/L	06/01/17 12:29	06/02/17 00:37	1

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

Lab Sample ID: MB 160-309165/7
Matrix: Water
Analysis Batch: 309165

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/17/17 17:22	1
Acrylonitrile	ND		50	1.7	ug/L			05/17/17 17:22	1
Benzene	ND		5.0	0.25	ug/L			05/17/17 17:22	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/17/17 17:22	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/17/17 17:22	1
Bromoform	ND		5.0	0.37	ug/L			05/17/17 17:22	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/17/17 17:22	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/17/17 17:22	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/17/17 17:22	1
Chloroethane	ND		10	0.38	ug/L			05/17/17 17:22	1
Chloroform	ND		5.0	0.15	ug/L			05/17/17 17:22	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/17/17 17:22	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/17/17 17:22	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/17/17 17:22	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/17/17 17:22	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/17/17 17:22	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/17/17 17:22	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/17/17 17:22	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/17/17 17:22	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/17/17 17:22	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/17/17 17:22	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/17/17 17:22	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/17/17 17:22	1
2-Hexanone	ND		20	0.59	ug/L			05/17/17 17:22	1
Methyl bromide	ND		10	0.40	ug/L			05/17/17 17:22	1
Methyl chloride	ND		10	0.55	ug/L			05/17/17 17:22	1
Methylene bromide	ND		5.0	0.41	ug/L			05/17/17 17:22	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/17/17 17:22	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/17/17 17:22	1
Methyl iodide	ND		5.0	1.5	ug/L			05/17/17 17:22	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/17/17 17:22	1
Styrene	ND		5.0	0.35	ug/L			05/17/17 17:22	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/17/17 17:22	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/17/17 17:22	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/17/17 17:22	1
Toluene	ND		5.0	1.0	ug/L			05/17/17 17:22	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/17/17 17:22	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/17/17 17:22	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/17/17 17:22	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/17/17 17:22	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/17/17 17:22	1
Trichloroethene	ND		5.0	0.29	ug/L			05/17/17 17:22	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/17/17 17:22	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/17/17 17:22	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/17/17 17:22	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/17/17 17:22	1
Xylenes, Total	ND		10	0.85	ug/L			05/17/17 17:22	1

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

Lab Sample ID: MB 160-309165/7
Matrix: Water
Analysis Batch: 309165

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	99		71 - 139		05/17/17 17:22	1
Dibromofluoromethane (Surr)	103		80 - 121		05/17/17 17:22	1
1,2-Dichloroethane-d4 (Surr)	107		76 - 121		05/17/17 17:22	1
Toluene-d8 (Surr)	98		80 - 129		05/17/17 17:22	1

Lab Sample ID: LCS 160-309165/4
Matrix: Water
Analysis Batch: 309165

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	50.0	49.6		ug/L		99	63 - 131
Acrylonitrile	500	496		ug/L		99	81 - 117
Benzene	50.0	43.2		ug/L		86	80 - 120
Bromochloromethane	50.0	49.4		ug/L		99	80 - 120
Bromodichloromethane	50.0	53.7		ug/L		107	80 - 120
Bromoform	50.0	54.5		ug/L		109	80 - 120
Carbon disulfide	50.0	50.2		ug/L		100	79 - 126
Carbon tetrachloride	50.0	53.9		ug/L		108	73 - 123
Chlorobenzene	50.0	47.2		ug/L		94	80 - 120
Chloroethane	50.0	58.1		ug/L		116	52 - 140
Chloroform	50.0	50.0		ug/L		100	80 - 120
cis-1,2-Dichloroethene	50.0	50.3		ug/L		101	80 - 120
cis-1,3-Dichloropropene	50.0	53.5		ug/L		107	80 - 122
Dibromochloromethane	50.0	51.8		ug/L		104	80 - 120
1,2-Dibromo-3-Chloropropane	50.0	54.2		ug/L		108	77 - 125
1,2-Dibromoethane (EDB)	50.0	49.2		ug/L		98	80 - 120
1,2-Dichlorobenzene	50.0	47.7		ug/L		95	80 - 120
1,4-Dichlorobenzene	50.0	47.2		ug/L		94	80 - 120
1,1-Dichloroethane	50.0	48.8		ug/L		98	80 - 120
1,2-Dichloroethane	50.0	51.8		ug/L		104	69 - 124
1,1-Dichloroethene	50.0	48.6		ug/L		97	77 - 126
1,2-Dichloropropane	50.0	48.4		ug/L		97	80 - 120
Ethylbenzene	50.0	53.6		ug/L		107	80 - 120
2-Hexanone	50.0	51.9		ug/L		104	64 - 136
Methyl bromide	50.0	67.5		ug/L		135	57 - 139
Methyl chloride	50.0	52.5		ug/L		105	70 - 127
Methylene bromide	50.0	49.3		ug/L		99	78 - 120
Methylene Chloride	50.0	48.4		ug/L		97	80 - 120
Methyl Ethyl Ketone	50.0	50.4		ug/L		101	70 - 130
Methyl iodide	50.0	49.9		ug/L		100	73 - 125
4-Methyl-2-pentanone (MIBK)	50.0	55.4		ug/L		111	76 - 129
Styrene	50.0	51.1		ug/L		102	80 - 120
1,1,1,2-Tetrachloroethane	50.0	49.1		ug/L		98	80 - 120
1,1,2,2-Tetrachloroethane	50.0	46.9		ug/L		94	80 - 120
Tetrachloroethene	50.0	50.2		ug/L		100	80 - 120
Toluene	50.0	50.7		ug/L		101	80 - 120
trans-1,4-Dichloro-2-butene	50.0	54.2		ug/L		108	75 - 127
trans-1,2-Dichloroethene	50.0	49.8		ug/L		100	80 - 120

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

Lab Sample ID: LCS 160-309165/4
Matrix: Water
Analysis Batch: 309165

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	50.0	54.9		ug/L		110	80 - 130
1,1,1-Trichloroethane	50.0	53.2		ug/L		106	76 - 120
1,1,2-Trichloroethane	50.0	48.5		ug/L		97	80 - 120
Trichloroethene	50.0	48.7		ug/L		97	73 - 120
Trichlorofluoromethane	50.0	60.6		ug/L		121	74 - 130
1,2,3-Trichloropropane	50.0	50.1		ug/L		100	80 - 120
Vinyl acetate	50.0	55.6		ug/L		111	37 - 140
Vinyl chloride	50.0	60.0		ug/L		120	51 - 140
Xylenes, Total	100	99.5		ug/L		100	80 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*71 - 139*
Dibromofluoromethane (Surr)	*100*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*105*		*76 - 121*
Toluene-d8 (Surr)	*102*		*80 - 129*

Lab Sample ID: LCSD 160-309165/5
Matrix: Water
Analysis Batch: 309165

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
Acetone	50.0	46.1		ug/L		92	63 - 131	7	20
Acrylonitrile	500	496		ug/L		99	81 - 117	0	20
Benzene	50.0	42.4		ug/L		85	80 - 120	2	20
Bromochloromethane	50.0	47.4		ug/L		95	80 - 120	4	20
Bromodichloromethane	50.0	50.7		ug/L		101	80 - 120	6	20
Bromoform	50.0	52.5		ug/L		105	80 - 120	4	20
Carbon disulfide	50.0	48.4		ug/L		97	79 - 126	4	20
Carbon tetrachloride	50.0	51.7		ug/L		103	73 - 123	4	20
Chlorobenzene	50.0	45.8		ug/L		92	80 - 120	3	20
Chloroethane	50.0	56.4		ug/L		113	52 - 140	3	20
Chloroform	50.0	48.7		ug/L		97	80 - 120	3	20
cis-1,2-Dichloroethene	50.0	49.2		ug/L		98	80 - 120	2	20
cis-1,3-Dichloropropene	50.0	52.5		ug/L		105	80 - 122	2	20
Dibromochloromethane	50.0	49.3		ug/L		99	80 - 120	5	20
1,2-Dibromo-3-Chloropropane	50.0	49.5		ug/L		99	77 - 125	9	20
1,2-Dibromoethane (EDB)	50.0	48.4		ug/L		97	80 - 120	2	20
1,2-Dichlorobenzene	50.0	46.3		ug/L		93	80 - 120	3	20
1,4-Dichlorobenzene	50.0	45.8		ug/L		92	80 - 120	3	20
1,1-Dichloroethane	50.0	47.8		ug/L		96	80 - 120	2	20
1,2-Dichloroethane	50.0	49.5		ug/L		99	69 - 124	4	20
1,1-Dichloroethene	50.0	47.1		ug/L		94	77 - 126	3	20
1,2-Dichloropropane	50.0	48.5		ug/L		97	80 - 120	0	20
Ethylbenzene	50.0	47.2		ug/L		94	80 - 120	13	20
2-Hexanone	50.0	48.6		ug/L		97	64 - 136	7	20
Methyl bromide	50.0	63.4		ug/L		127	57 - 139	6	20
Methyl chloride	50.0	50.4		ug/L		101	70 - 127	4	20
Methylene bromide	50.0	49.1		ug/L		98	78 - 120	0	20

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

Lab Sample ID: LCSD 160-309165/5
Matrix: Water
Analysis Batch: 309165

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
Methylene Chloride			50.0	47.5		ug/L		95	80 - 120	2	20
Methyl Ethyl Ketone			50.0	50.1		ug/L		100	70 - 130	1	20
Methyl iodide			50.0	48.5		ug/L		97	73 - 125	3	20
4-Methyl-2-pentanone (MIBK)			50.0	53.3		ug/L		107	76 - 129	4	20
Styrene			50.0	48.8		ug/L		98	80 - 120	5	20
1,1,1,2-Tetrachloroethane			50.0	47.4		ug/L		95	80 - 120	4	20
1,1,2,2-Tetrachloroethane			50.0	46.0		ug/L		92	80 - 120	2	20
Tetrachloroethene			50.0	47.7		ug/L		95	80 - 120	5	20
Toluene			50.0	48.6		ug/L		97	80 - 120	4	20
trans-1,4-Dichloro-2-butene			50.0	51.9		ug/L		104	75 - 127	4	20
trans-1,2-Dichloroethene			50.0	49.3		ug/L		99	80 - 120	1	20
trans-1,3-Dichloropropene			50.0	51.5		ug/L		103	80 - 130	6	20
1,1,1-Trichloroethane			50.0	51.2		ug/L		102	76 - 120	4	20
1,1,2-Trichloroethane			50.0	48.3		ug/L		97	80 - 120	0	20
Trichloroethene			50.0	47.4		ug/L		95	73 - 120	3	20
Trichlorofluoromethane			50.0	54.2		ug/L		108	74 - 130	11	20
1,2,3-Trichloropropane			50.0	48.6		ug/L		97	80 - 120	3	20
Vinyl acetate			50.0	55.1		ug/L		110	37 - 140	1	20
Vinyl chloride			50.0	53.7		ug/L		107	51 - 140	11	20
Xylenes, Total			100	95.4		ug/L		95	80 - 121	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*71 - 139*
Dibromofluoromethane (Surr)	*99*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*102*		*76 - 121*
Toluene-d8 (Surr)	*101*		*80 - 129*

Lab Sample ID: 160-22264-2 MS
Matrix: Water
Analysis Batch: 309165

Client Sample ID: PZ-101-SS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		50.0	50.0		ug/L		100	52 - 138
Acrylonitrile	ND		500	503		ug/L		101	58 - 142
Benzene	ND		50.0	42.0		ug/L		84	80 - 120
Bromochloromethane	ND		50.0	47.6		ug/L		95	72 - 125
Bromodichloromethane	ND		50.0	50.7		ug/L		101	71 - 128
Bromoform	ND		50.0	52.1		ug/L		104	65 - 133
Carbon disulfide	ND		50.0	48.2		ug/L		96	69 - 139
Carbon tetrachloride	ND		50.0	47.5		ug/L		95	70 - 126
Chlorobenzene	7.5		50.0	52.7		ug/L		90	80 - 120
Chloroethane	ND		50.0	51.5		ug/L		103	59 - 144
Chloroform	ND		50.0	47.4		ug/L		95	80 - 120
cis-1,2-Dichloroethene	ND		50.0	49.5		ug/L		99	80 - 124
cis-1,3-Dichloropropene	ND		50.0	52.0		ug/L		104	67 - 130
Dibromochloromethane	ND		50.0	49.7		ug/L		99	68 - 133
1,2-Dibromo-3-Chloropropane	ND		50.0	51.9		ug/L		104	58 - 148
1,2-Dibromoethane (EDB)	ND		50.0	50.7		ug/L		101	65 - 138

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

Lab Sample ID: 160-22264-2 MS
Matrix: Water
Analysis Batch: 309165

Client Sample ID: PZ-101-SS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	ND		50.0	45.9		ug/L		92	80 - 124
1,4-Dichlorobenzene	0.47	J	50.0	45.5		ug/L		90	80 - 120
1,1-Dichloroethane	ND		50.0	46.2		ug/L		92	80 - 120
1,2-Dichloroethane	ND		50.0	48.9		ug/L		98	56 - 136
1,1-Dichloroethene	ND		50.0	44.5		ug/L		89	66 - 137
1,2-Dichloropropane	ND		50.0	48.8		ug/L		98	80 - 123
Ethylbenzene	ND		50.0	45.9		ug/L		92	80 - 121
2-Hexanone	ND		50.0	49.0		ug/L		98	47 - 150
Methyl bromide	ND		50.0	57.8		ug/L		116	53 - 146
Methyl chloride	ND		50.0	37.8		ug/L		76	61 - 137
Methylene bromide	ND		50.0	49.1		ug/L		98	61 - 136
Methylene Chloride	ND		50.0	47.2		ug/L		94	80 - 120
Methyl Ethyl Ketone	ND		50.0	48.6		ug/L		97	58 - 143
Methyl iodide	ND		50.0	48.0		ug/L		96	69 - 124
4-Methyl-2-pentanone (MIBK)	ND		50.0	52.5		ug/L		105	53 - 150
Styrene	ND		50.0	49.2		ug/L		98	44 - 150
1,1,1,2-Tetrachloroethane	ND		50.0	46.6		ug/L		93	80 - 120
1,1,2,2-Tetrachloroethane	ND		50.0	46.0		ug/L		92	60 - 150
Tetrachloroethene	ND		50.0	46.6		ug/L		93	66 - 132
Toluene	ND		50.0	48.9		ug/L		98	75 - 134
trans-1,4-Dichloro-2-butene	ND		50.0	49.1		ug/L		98	55 - 146
trans-1,2-Dichloroethene	ND		50.0	48.0		ug/L		96	79 - 121
trans-1,3-Dichloropropene	ND		50.0	52.7		ug/L		105	68 - 143
1,1,1-Trichloroethane	ND		50.0	48.3		ug/L		97	74 - 123
1,1,2-Trichloroethane	ND		50.0	53.2		ug/L		106	70 - 134
Trichloroethene	ND		50.0	46.1		ug/L		92	63 - 120
Trichlorofluoromethane	ND		50.0	48.7		ug/L		97	53 - 150
1,2,3-Trichloropropane	ND		50.0	46.9		ug/L		94	62 - 137
Vinyl acetate	ND		50.0	55.4		ug/L		111	63 - 150
Vinyl chloride	ND		50.0	41.4		ug/L		83	54 - 140
Xylenes, Total	ND		100	95.0		ug/L		95	80 - 124

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*71 - 139*
Dibromofluoromethane (Surr)	*97*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*101*		*76 - 121*
Toluene-d8 (Surr)	*98*		*80 - 129*

Lab Sample ID: 160-22264-2 MSD
Matrix: Water
Analysis Batch: 309165

Client Sample ID: PZ-101-SS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		50.0	48.9		ug/L		98	52 - 138	2	20
Acrylonitrile	ND		500	497		ug/L		99	58 - 142	1	20
Benzene	ND		50.0	43.9		ug/L		88	80 - 120	5	20
Bromochloromethane	ND		50.0	49.7		ug/L		99	72 - 125	4	20
Bromodichloromethane	ND		50.0	51.3		ug/L		103	71 - 128	1	20

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

Lab Sample ID: 160-22264-2 MSD
Matrix: Water
Analysis Batch: 309165

Client Sample ID: PZ-101-SS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	ND		50.0	51.3		ug/L		103	65 - 133	2	20
Carbon disulfide	ND		50.0	49.5		ug/L		99	69 - 139	3	20
Carbon tetrachloride	ND		50.0	48.7		ug/L		97	70 - 126	2	20
Chlorobenzene	7.5		50.0	54.6		ug/L		94	80 - 120	4	20
Chloroethane	ND		50.0	56.7		ug/L		113	59 - 144	10	20
Chloroform	ND		50.0	49.2		ug/L		98	80 - 120	4	20
cis-1,2-Dichloroethene	ND		50.0	51.9		ug/L		104	80 - 124	5	20
cis-1,3-Dichloropropene	ND		50.0	53.6		ug/L		107	67 - 130	3	20
Dibromochloromethane	ND		50.0	49.6		ug/L		99	68 - 133	0	20
1,2-Dibromo-3-Chloropropane	ND		50.0	50.4		ug/L		101	58 - 148	3	20
1,2-Dibromoethane (EDB)	ND		50.0	50.1		ug/L		100	65 - 138	1	20
1,2-Dichlorobenzene	ND		50.0	47.1		ug/L		94	80 - 124	3	20
1,4-Dichlorobenzene	0.47	J	50.0	47.4		ug/L		94	80 - 120	4	20
1,1-Dichloroethane	ND		50.0	47.7		ug/L		95	80 - 120	3	20
1,2-Dichloroethane	ND		50.0	48.9		ug/L		98	56 - 136	0	20
1,1-Dichloroethene	ND		50.0	46.7		ug/L		93	66 - 137	5	20
1,2-Dichloropropane	ND		50.0	49.4		ug/L		99	80 - 123	1	20
Ethylbenzene	ND		50.0	48.5		ug/L		97	80 - 121	6	20
2-Hexanone	ND		50.0	48.0		ug/L		96	47 - 150	2	20
Methyl bromide	ND		50.0	62.1		ug/L		124	53 - 146	7	20
Methyl chloride	ND		50.0	42.3		ug/L		85	61 - 137	11	20
Methylene bromide	ND		50.0	50.1		ug/L		100	61 - 136	2	20
Methylene Chloride	ND		50.0	48.9		ug/L		98	80 - 120	3	20
Methyl Ethyl Ketone	ND		50.0	48.4		ug/L		97	58 - 143	0	20
Methyl iodide	ND		50.0	50.1		ug/L		100	69 - 124	4	20
4-Methyl-2-pentanone (MIBK)	ND		50.0	52.6		ug/L		105	53 - 150	0	20
Styrene	ND		50.0	51.4		ug/L		103	44 - 150	4	20
1,1,1,2-Tetrachloroethane	ND		50.0	47.4		ug/L		95	80 - 120	2	20
1,1,2,2-Tetrachloroethane	ND		50.0	45.9		ug/L		92	60 - 150	0	20
Tetrachloroethene	ND		50.0	48.3		ug/L		97	66 - 132	4	20
Toluene	ND		50.0	51.1		ug/L		102	75 - 134	4	20
trans-1,4-Dichloro-2-butene	ND		50.0	48.1		ug/L		96	55 - 146	2	20
trans-1,2-Dichloroethene	ND		50.0	50.8		ug/L		102	79 - 121	6	20
trans-1,3-Dichloropropene	ND		50.0	52.5		ug/L		105	68 - 143	0	20
1,1,1-Trichloroethane	ND		50.0	50.5		ug/L		101	74 - 123	4	20
1,1,2-Trichloroethane	ND		50.0	52.9		ug/L		106	70 - 134	1	20
Trichloroethene	ND		50.0	47.5		ug/L		95	63 - 120	3	20
Trichlorofluoromethane	ND		50.0	51.8		ug/L		104	53 - 150	6	20
1,2,3-Trichloropropane	ND		50.0	48.4		ug/L		97	62 - 137	3	20
Vinyl acetate	ND		50.0	56.5		ug/L		113	63 - 150	2	20
Vinyl chloride	ND		50.0	44.1		ug/L		88	54 - 140	6	20
Xylenes, Total	ND		100	99.0		ug/L		99	80 - 124	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*71 - 139*
Dibromofluoromethane (Surr)	*96*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*97*		*76 - 121*
Toluene-d8 (Surr)	*99*		*80 - 129*

Lab Sample ID: MB 160-309388/7
Matrix: Water
Analysis Batch: 309388

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/18/17 17:45	1
Acrylonitrile	ND		50	1.7	ug/L			05/18/17 17:45	1
Benzene	ND		5.0	0.25	ug/L			05/18/17 17:45	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/18/17 17:45	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/18/17 17:45	1
Bromoform	ND		5.0	0.37	ug/L			05/18/17 17:45	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/18/17 17:45	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/18/17 17:45	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/18/17 17:45	1
Chloroethane	ND		10	0.38	ug/L			05/18/17 17:45	1
Chloroform	ND		5.0	0.15	ug/L			05/18/17 17:45	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/18/17 17:45	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/18/17 17:45	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/18/17 17:45	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/18/17 17:45	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/18/17 17:45	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/18/17 17:45	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/18/17 17:45	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/18/17 17:45	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/18/17 17:45	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/18/17 17:45	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/18/17 17:45	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/18/17 17:45	1
2-Hexanone	ND		20	0.59	ug/L			05/18/17 17:45	1
Methyl bromide	ND		10	0.40	ug/L			05/18/17 17:45	1
Methyl chloride	ND		10	0.55	ug/L			05/18/17 17:45	1
Methylene bromide	ND		5.0	0.41	ug/L			05/18/17 17:45	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/18/17 17:45	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/18/17 17:45	1
Methyl iodide	ND		5.0	1.5	ug/L			05/18/17 17:45	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/18/17 17:45	1
Styrene	ND		5.0	0.35	ug/L			05/18/17 17:45	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/18/17 17:45	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/18/17 17:45	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/18/17 17:45	1
Toluene	ND		5.0	1.0	ug/L			05/18/17 17:45	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/18/17 17:45	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/18/17 17:45	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/18/17 17:45	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/18/17 17:45	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/18/17 17:45	1
Trichloroethene	ND		5.0	0.29	ug/L			05/18/17 17:45	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/18/17 17:45	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/18/17 17:45	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/18/17 17:45	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/18/17 17:45	1
Xylenes, Total	ND		10	0.85	ug/L			05/18/17 17:45	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*71 - 139*		*05/18/17 17:45*	*1*

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

Lab Sample ID: MB 160-309388/7
Matrix: Water
Analysis Batch: 309388

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	100		80 - 121		05/18/17 17:45	1
1,2-Dichloroethane-d4 (Surr)	105		76 - 121		05/18/17 17:45	1
Toluene-d8 (Surr)	101		80 - 129		05/18/17 17:45	1

Lab Sample ID: LCS 160-309388/4
Matrix: Water
Analysis Batch: 309388

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	50.0	44.7		ug/L		89	63 - 131
Acrylonitrile	500	479		ug/L		96	81 - 117
Benzene	50.0	42.7		ug/L		85	80 - 120
Bromochloromethane	50.0	48.4		ug/L		97	80 - 120
Bromodichloromethane	50.0	51.8		ug/L		104	80 - 120
Bromoform	50.0	51.1		ug/L		102	80 - 120
Carbon disulfide	50.0	47.7		ug/L		95	79 - 126
Carbon tetrachloride	50.0	53.1		ug/L		106	73 - 123
Chlorobenzene	50.0	46.0		ug/L		92	80 - 120
Chloroethane	50.0	58.2		ug/L		116	52 - 140
Chloroform	50.0	49.4		ug/L		99	80 - 120
cis-1,2-Dichloroethene	50.0	48.3		ug/L		97	80 - 120
cis-1,3-Dichloropropene	50.0	52.6		ug/L		105	80 - 122
Dibromochloromethane	50.0	50.2		ug/L		100	80 - 120
1,2-Dibromo-3-Chloropropane	50.0	49.5		ug/L		99	77 - 125
1,2-Dibromoethane (EDB)	50.0	48.4		ug/L		97	80 - 120
1,2-Dichlorobenzene	50.0	47.2		ug/L		94	80 - 120
1,4-Dichlorobenzene	50.0	48.2		ug/L		96	80 - 120
1,1-Dichloroethane	50.0	47.7		ug/L		95	80 - 120
1,2-Dichloroethane	50.0	51.5		ug/L		103	69 - 124
1,1-Dichloroethene	50.0	46.3		ug/L		93	77 - 126
1,2-Dichloropropane	50.0	47.8		ug/L		96	80 - 120
Ethylbenzene	50.0	52.4		ug/L		105	80 - 120
2-Hexanone	50.0	45.7		ug/L		91	64 - 136
Methyl bromide	50.0	67.2		ug/L		134	57 - 139
Methyl chloride	50.0	60.1		ug/L		120	70 - 127
Methylene bromide	50.0	49.1		ug/L		98	78 - 120
Methylene Chloride	50.0	46.1		ug/L		92	80 - 120
Methyl Ethyl Ketone	50.0	46.1		ug/L		92	70 - 130
Methyl iodide	50.0	48.4		ug/L		97	73 - 125
4-Methyl-2-pentanone (MIBK)	50.0	50.5		ug/L		101	76 - 129
Styrene	50.0	49.5		ug/L		99	80 - 120
1,1,1,2-Tetrachloroethane	50.0	49.0		ug/L		98	80 - 120
1,1,2,2-Tetrachloroethane	50.0	45.2		ug/L		90	80 - 120
Tetrachloroethene	50.0	48.0		ug/L		96	80 - 120
Toluene	50.0	49.0		ug/L		98	80 - 120
trans-1,4-Dichloro-2-butene	50.0	52.1		ug/L		104	75 - 127
trans-1,2-Dichloroethene	50.0	48.4		ug/L		97	80 - 120
trans-1,3-Dichloropropene	50.0	51.8		ug/L		104	80 - 130

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

Lab Sample ID: LCS 160-309388/4
Matrix: Water
Analysis Batch: 309388

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	50.0	53.4		ug/L		107	76 - 120
1,1,2-Trichloroethane	50.0	46.1		ug/L		92	80 - 120
Trichloroethene	50.0	49.4		ug/L		99	73 - 120
Trichlorofluoromethane	50.0	60.6		ug/L		121	74 - 130
1,2,3-Trichloropropane	50.0	49.4		ug/L		99	80 - 120
Vinyl acetate	50.0	55.4		ug/L		111	37 - 140
Vinyl chloride	50.0	60.6		ug/L		121	51 - 140
Xylenes, Total	100	96.6		ug/L		97	80 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*71 - 139*
Dibromofluoromethane (Surr)	*99*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*104*		*76 - 121*
Toluene-d8 (Surr)	*100*		*80 - 129*

Lab Sample ID: LCSD 160-309388/5
Matrix: Water
Analysis Batch: 309388

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
Acetone	50.0	46.5		ug/L		93	63 - 131	4	20
Acrylonitrile	500	477		ug/L		95	81 - 117	1	20
Benzene	50.0	42.7		ug/L		85	80 - 120	0	20
Bromochloromethane	50.0	47.9		ug/L		96	80 - 120	1	20
Bromodichloromethane	50.0	51.6		ug/L		103	80 - 120	0	20
Bromoform	50.0	51.6		ug/L		103	80 - 120	1	20
Carbon disulfide	50.0	48.2		ug/L		96	79 - 126	1	20
Carbon tetrachloride	50.0	51.4		ug/L		103	73 - 123	3	20
Chlorobenzene	50.0	46.2		ug/L		92	80 - 120	0	20
Chloroethane	50.0	59.3		ug/L		119	52 - 140	2	20
Chloroform	50.0	49.2		ug/L		98	80 - 120	0	20
cis-1,2-Dichloroethene	50.0	49.0		ug/L		98	80 - 120	2	20
cis-1,3-Dichloropropene	50.0	52.4		ug/L		105	80 - 122	0	20
Dibromochloromethane	50.0	48.3		ug/L		97	80 - 120	4	20
1,2-Dibromo-3-Chloropropane	50.0	50.0		ug/L		100	77 - 125	1	20
1,2-Dibromoethane (EDB)	50.0	46.5		ug/L		93	80 - 120	4	20
1,2-Dichlorobenzene	50.0	46.3		ug/L		93	80 - 120	2	20
1,4-Dichlorobenzene	50.0	45.4		ug/L		91	80 - 120	6	20
1,1-Dichloroethane	50.0	47.0		ug/L		94	80 - 120	1	20
1,2-Dichloroethane	50.0	49.6		ug/L		99	69 - 124	4	20
1,1-Dichloroethene	50.0	46.3		ug/L		93	77 - 126	0	20
1,2-Dichloropropane	50.0	46.9		ug/L		94	80 - 120	2	20
Ethylbenzene	50.0	51.8		ug/L		104	80 - 120	1	20
2-Hexanone	50.0	46.6		ug/L		93	64 - 136	2	20
Methyl bromide	50.0	69.4		ug/L		139	57 - 139	3	20
Methyl chloride	50.0	58.8		ug/L		118	70 - 127	2	20
Methylene bromide	50.0	47.9		ug/L		96	78 - 120	2	20
Methylene Chloride	50.0	46.5		ug/L		93	80 - 120	1	20

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

Lab Sample ID: LCSD 160-309388/5
Matrix: Water
Analysis Batch: 309388

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
Methyl Ethyl Ketone			50.0	46.9		ug/L		94	70 - 130	2	20
Methyl iodide			50.0	49.9		ug/L		100	73 - 125	3	20
4-Methyl-2-pentanone (MIBK)			50.0	48.9		ug/L		98	76 - 129	3	20
Styrene			50.0	49.8		ug/L		100	80 - 120	1	20
1,1,1,2-Tetrachloroethane			50.0	46.8		ug/L		94	80 - 120	5	20
1,1,2,2-Tetrachloroethane			50.0	44.8		ug/L		90	80 - 120	1	20
Tetrachloroethene			50.0	46.8		ug/L		94	80 - 120	3	20
Toluene			50.0	47.6		ug/L		95	80 - 120	3	20
trans-1,4-Dichloro-2-butene			50.0	51.2		ug/L		102	75 - 127	2	20
trans-1,2-Dichloroethene			50.0	49.1		ug/L		98	80 - 120	2	20
trans-1,3-Dichloropropene			50.0	50.1		ug/L		100	80 - 130	3	20
1,1,1-Trichloroethane			50.0	51.6		ug/L		103	76 - 120	3	20
1,1,2-Trichloroethane			50.0	44.6		ug/L		89	80 - 120	3	20
Trichloroethene			50.0	48.3		ug/L		97	73 - 120	2	20
Trichlorofluoromethane			50.0	56.5		ug/L		113	74 - 130	7	20
1,2,3-Trichloropropane			50.0	47.5		ug/L		95	80 - 120	4	20
Vinyl acetate			50.0	53.5		ug/L		107	37 - 140	3	20
Vinyl chloride			50.0	59.3		ug/L		119	51 - 140	2	20
Xylenes, Total			100	95.7		ug/L		96	80 - 121	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*71 - 139*
Dibromofluoromethane (Surr)	*99*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*103*		*76 - 121*
Toluene-d8 (Surr)	*97*		*80 - 129*

Lab Sample ID: 160-22310-A-6 MS
Matrix: Water
Analysis Batch: 309388

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		50.0	35.3		ug/L		71	52 - 138
Acrylonitrile	ND		500	389		ug/L		78	58 - 142
Benzene	ND		50.0	40.4		ug/L		81	80 - 120
Bromochloromethane	ND		50.0	45.7		ug/L		91	72 - 125
Bromodichloromethane	ND		50.0	44.6		ug/L		89	71 - 128
Bromoform	ND		50.0	50.2		ug/L		100	65 - 133
Carbon disulfide	ND		50.0	37.2		ug/L		74	69 - 139
Carbon tetrachloride	ND		50.0	42.8		ug/L		86	70 - 126
Chlorobenzene	ND		50.0	46.0		ug/L		92	80 - 120
Chloroethane	ND		50.0	43.2		ug/L		86	59 - 144
Chloroform	ND		50.0	43.1		ug/L		86	80 - 120
cis-1,2-Dichloroethene	ND		50.0	45.6		ug/L		91	80 - 124
cis-1,3-Dichloropropene	ND		50.0	52.1		ug/L		104	67 - 130
Dibromochloromethane	ND		50.0	48.9		ug/L		98	68 - 133
1,2-Dibromo-3-Chloropropane	ND		50.0	48.3		ug/L		97	58 - 148
1,2-Dibromoethane (EDB)	ND		50.0	49.4		ug/L		99	65 - 138
1,2-Dichlorobenzene	ND		50.0	45.7		ug/L		91	80 - 124

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

Lab Sample ID: 160-22310-A-6 MS
Matrix: Water
Analysis Batch: 309388

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	ND		50.0	46.4		ug/L		93	80 - 120
1,1-Dichloroethane	ND	F1	50.0	37.9	F1	ug/L		76	80 - 120
1,2-Dichloroethane	ND		50.0	44.7		ug/L		89	56 - 136
1,1-Dichloroethene	ND		50.0	36.2		ug/L		72	66 - 137
1,2-Dichloropropane	ND		50.0	42.5		ug/L		85	80 - 123
Ethylbenzene	ND		50.0	47.7		ug/L		95	80 - 121
2-Hexanone	ND		50.0	47.4		ug/L		95	47 - 150
Methyl bromide	ND		50.0	50.8		ug/L		102	53 - 146
Methyl chloride	ND		50.0	45.5		ug/L		91	61 - 137
Methylene bromide	ND		50.0	40.9		ug/L		82	61 - 136
Methylene Chloride	ND	F1	50.0	37.2	F1	ug/L		74	80 - 120
Methyl Ethyl Ketone	ND		50.0	44.9		ug/L		90	58 - 143
Methyl iodide	ND		50.0	38.7		ug/L		77	69 - 124
4-Methyl-2-pentanone (MIBK)	ND		50.0	52.3		ug/L		105	53 - 150
Styrene	ND		50.0	49.9		ug/L		100	44 - 150
1,1,1,2-Tetrachloroethane	ND		50.0	47.5		ug/L		95	80 - 120
1,1,2,2-Tetrachloroethane	ND		50.0	43.8		ug/L		88	60 - 150
Tetrachloroethene	ND		50.0	47.5		ug/L		95	66 - 132
Toluene	ND		50.0	60.1		ug/L		120	75 - 134
trans-1,4-Dichloro-2-butene	ND		50.0	50.2		ug/L		100	55 - 146
trans-1,2-Dichloroethene	ND	F1	50.0	38.5	F1	ug/L		77	79 - 121
trans-1,3-Dichloropropene	ND		50.0	52.0		ug/L		104	68 - 143
1,1,1-Trichloroethane	ND		50.0	45.0		ug/L		90	74 - 123
1,1,2-Trichloroethane	ND		50.0	47.0		ug/L		94	70 - 134
Trichloroethene	ND		50.0	42.7		ug/L		85	63 - 120
Trichlorofluoromethane	ND		50.0	42.5		ug/L		85	53 - 150
1,2,3-Trichloropropane	ND		50.0	44.7		ug/L		89	62 - 137
Vinyl acetate	ND		50.0	52.4		ug/L		105	63 - 150
Vinyl chloride	ND		50.0	45.4		ug/L		91	54 - 140
Xylenes, Total	ND		100	95.5		ug/L		96	80 - 124

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*71 - 139*
Dibromofluoromethane (Surr)	*92*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*87*		*76 - 121*
Toluene-d8 (Surr)	*123*		*80 - 129*

Lab Sample ID: 160-22310-A-6 MSD
Matrix: Water
Analysis Batch: 309388

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		50.0	40.1		ug/L		80	52 - 138	13	20
Acrylonitrile	ND		500	446		ug/L		89	58 - 142	14	20
Benzene	ND		50.0	45.8		ug/L		92	80 - 120	13	20
Bromochloromethane	ND		50.0	51.3		ug/L		103	72 - 125	11	20
Bromodichloromethane	ND		50.0	46.0		ug/L		92	71 - 128	3	20
Bromoform	ND		50.0	45.5		ug/L		91	65 - 133	10	20

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

Lab Sample ID: 160-22310-A-6 MSD
Matrix: Water
Analysis Batch: 309388

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon disulfide	ND		50.0	43.4		ug/L		87	69 - 139	15	20
Carbon tetrachloride	ND		50.0	48.6		ug/L		97	70 - 126	13	20
Chlorobenzene	ND		50.0	46.4		ug/L		93	80 - 120	1	20
Chloroethane	ND		50.0	52.1		ug/L		104	59 - 144	19	20
Chloroform	ND		50.0	49.4		ug/L		99	80 - 120	14	20
cis-1,2-Dichloroethene	ND		50.0	53.2		ug/L		106	80 - 124	16	20
cis-1,3-Dichloropropene	ND		50.0	47.2		ug/L		94	67 - 130	10	20
Dibromochloromethane	ND		50.0	49.4		ug/L		99	68 - 133	1	20
1,2-Dibromo-3-Chloropropane	ND		50.0	48.0		ug/L		96	58 - 148	1	20
1,2-Dibromoethane (EDB)	ND		50.0	48.9		ug/L		98	65 - 138	1	20
1,2-Dichlorobenzene	ND		50.0	50.3		ug/L		101	80 - 124	10	20
1,4-Dichlorobenzene	ND		50.0	47.1		ug/L		94	80 - 120	2	20
1,1-Dichloroethane	ND	F1	50.0	43.4		ug/L		87	80 - 120	14	20
1,2-Dichloroethane	ND		50.0	48.9		ug/L		98	56 - 136	9	20
1,1-Dichloroethene	ND		50.0	41.7		ug/L		83	66 - 137	14	20
1,2-Dichloropropane	ND		50.0	44.3		ug/L		89	80 - 123	4	20
Ethylbenzene	ND		50.0	48.9		ug/L		98	80 - 121	3	20
2-Hexanone	ND		50.0	45.6		ug/L		91	47 - 150	4	20
Methyl bromide	ND		50.0	59.0		ug/L		118	53 - 146	15	20
Methyl chloride	ND		50.0	51.3		ug/L		103	61 - 137	12	20
Methylene bromide	ND		50.0	43.4		ug/L		87	61 - 136	6	20
Methylene Chloride	ND	F1	50.0	42.7		ug/L		85	80 - 120	14	20
Methyl Ethyl Ketone	ND		50.0	54.3		ug/L		109	58 - 143	19	20
Methyl iodide	ND		50.0	44.0		ug/L		88	69 - 124	13	20
4-Methyl-2-pentanone (MIBK)	ND		50.0	50.4		ug/L		101	53 - 150	4	20
Styrene	ND		50.0	50.1		ug/L		100	44 - 150	0	20
1,1,1,2-Tetrachloroethane	ND		50.0	48.0		ug/L		96	80 - 120	1	20
1,1,2,2-Tetrachloroethane	ND		50.0	46.5		ug/L		93	60 - 150	6	20
Tetrachloroethene	ND		50.0	47.9		ug/L		96	66 - 132	1	20
Toluene	ND		50.0	49.3		ug/L		99	75 - 134	20	20
trans-1,4-Dichloro-2-butene	ND		50.0	50.2		ug/L		100	55 - 146	0	20
trans-1,2-Dichloroethene	ND	F1	50.0	45.0		ug/L		90	79 - 121	15	20
trans-1,3-Dichloropropene	ND		50.0	52.4		ug/L		105	68 - 143	1	20
1,1,1-Trichloroethane	ND		50.0	50.3		ug/L		101	74 - 123	11	20
1,1,2-Trichloroethane	ND		50.0	48.1		ug/L		96	70 - 134	2	20
Trichloroethene	ND		50.0	42.7		ug/L		85	63 - 120	0	20
Trichlorofluoromethane	ND		50.0	49.2		ug/L		98	53 - 150	15	20
1,2,3-Trichloropropane	ND		50.0	48.7		ug/L		97	62 - 137	9	20
Vinyl acetate	ND		50.0	51.4		ug/L		103	63 - 150	2	20
Vinyl chloride	ND		50.0	52.4		ug/L		105	54 - 140	14	20
Xylenes, Total	ND		100	97.2		ug/L		97	80 - 124	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*71 - 139*
Dibromofluoromethane (Surr)	*98*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*99*		*76 - 121*
Toluene-d8 (Surr)	*97*		*80 - 129*

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

Lab Sample ID: MB 160-309845/8
Matrix: Water
Analysis Batch: 309845

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/22/17 19:48	1
Acrylonitrile	ND		50	1.7	ug/L			05/22/17 19:48	1
Benzene	ND		5.0	0.25	ug/L			05/22/17 19:48	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/22/17 19:48	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/22/17 19:48	1
Bromoform	ND		5.0	0.37	ug/L			05/22/17 19:48	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/22/17 19:48	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/22/17 19:48	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/22/17 19:48	1
Chloroethane	ND		10	0.38	ug/L			05/22/17 19:48	1
Chloroform	ND		5.0	0.15	ug/L			05/22/17 19:48	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/22/17 19:48	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/22/17 19:48	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/22/17 19:48	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/22/17 19:48	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/22/17 19:48	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/22/17 19:48	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/22/17 19:48	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/22/17 19:48	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/22/17 19:48	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/22/17 19:48	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/22/17 19:48	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/22/17 19:48	1
2-Hexanone	ND		20	0.59	ug/L			05/22/17 19:48	1
Methyl bromide	ND		10	0.40	ug/L			05/22/17 19:48	1
Methyl chloride	ND		10	0.55	ug/L			05/22/17 19:48	1
Methylene bromide	ND		5.0	0.41	ug/L			05/22/17 19:48	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/22/17 19:48	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/22/17 19:48	1
Methyl iodide	ND		5.0	1.5	ug/L			05/22/17 19:48	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/22/17 19:48	1
Styrene	ND		5.0	0.35	ug/L			05/22/17 19:48	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/22/17 19:48	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/22/17 19:48	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/22/17 19:48	1
Toluene	ND		5.0	1.0	ug/L			05/22/17 19:48	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/22/17 19:48	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/22/17 19:48	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/22/17 19:48	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/22/17 19:48	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/22/17 19:48	1
Trichloroethene	ND		5.0	0.29	ug/L			05/22/17 19:48	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/22/17 19:48	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/22/17 19:48	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/22/17 19:48	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/22/17 19:48	1
Xylenes, Total	ND		10	0.85	ug/L			05/22/17 19:48	1

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

Lab Sample ID: MB 160-309845/8
Matrix: Water
Analysis Batch: 309845

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	101		71 - 139		05/22/17 19:48	1
Dibromofluoromethane (Surr)	96		80 - 121		05/22/17 19:48	1
1,2-Dichloroethane-d4 (Surr)	89		76 - 121		05/22/17 19:48	1
Toluene-d8 (Surr)	101		80 - 129		05/22/17 19:48	1

Lab Sample ID: LCS 160-309845/3
Matrix: Water
Analysis Batch: 309845

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	50.0	44.0		ug/L		88	63 - 131
Acrylonitrile	500	491		ug/L		98	81 - 117
Benzene	50.0	42.8		ug/L		86	80 - 120
Bromochloromethane	50.0	45.5		ug/L		91	80 - 120
Bromodichloromethane	50.0	44.5		ug/L		89	80 - 120
Bromoform	50.0	48.3		ug/L		97	80 - 120
Carbon disulfide	50.0	48.0		ug/L		96	79 - 126
Carbon tetrachloride	50.0	40.7		ug/L		81	73 - 123
Chlorobenzene	50.0	45.2		ug/L		90	80 - 120
Chloroethane	50.0	42.5		ug/L		85	52 - 140
Chloroform	50.0	42.6		ug/L		85	80 - 120
cis-1,2-Dichloroethene	50.0	49.2		ug/L		98	80 - 120
cis-1,3-Dichloropropene	50.0	50.9		ug/L		102	80 - 122
Dibromochloromethane	50.0	44.8		ug/L		90	80 - 120
1,2-Dibromo-3-Chloropropane	50.0	46.2		ug/L		92	77 - 125
1,2-Dibromoethane (EDB)	50.0	48.7		ug/L		97	80 - 120
1,2-Dichlorobenzene	50.0	46.6		ug/L		93	80 - 120
1,4-Dichlorobenzene	50.0	46.3		ug/L		93	80 - 120
1,1-Dichloroethane	50.0	44.9		ug/L		90	80 - 120
1,2-Dichloroethane	50.0	41.0		ug/L		82	69 - 124
1,1-Dichloroethene	50.0	45.5		ug/L		91	77 - 126
1,2-Dichloropropane	50.0	49.9		ug/L		100	80 - 120
Ethylbenzene	50.0	50.5		ug/L		101	80 - 120
2-Hexanone	50.0	49.3		ug/L		99	64 - 136
Methyl bromide	50.0	50.7		ug/L		101	57 - 139
Methyl chloride	50.0	48.3		ug/L		97	70 - 127
Methylene bromide	50.0	45.0		ug/L		90	78 - 120
Methylene Chloride	50.0	47.1		ug/L		94	80 - 120
Methyl Ethyl Ketone	50.0	50.7		ug/L		101	70 - 130
Methyl iodide	50.0	45.3		ug/L		91	73 - 125
4-Methyl-2-pentanone (MIBK)	50.0	54.2		ug/L		108	76 - 129
Styrene	50.0	48.9		ug/L		98	80 - 120
1,1,1,2-Tetrachloroethane	50.0	43.6		ug/L		87	80 - 120
1,1,2,2-Tetrachloroethane	50.0	50.0		ug/L		100	80 - 120
Tetrachloroethene	50.0	45.3		ug/L		91	80 - 120
Toluene	50.0	49.9		ug/L		100	80 - 120
trans-1,4-Dichloro-2-butene	50.0	49.6		ug/L		99	75 - 127
trans-1,2-Dichloroethene	50.0	48.6		ug/L		97	80 - 120

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

Lab Sample ID: LCS 160-309845/3
Matrix: Water
Analysis Batch: 309845

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	50.0	49.4		ug/L		99	80 - 130
1,1,1-Trichloroethane	50.0	41.9		ug/L		84	76 - 120
1,1,2-Trichloroethane	50.0	48.1		ug/L		96	80 - 120
Trichloroethene	50.0	44.5		ug/L		89	73 - 120
Trichlorofluoromethane	50.0	39.8		ug/L		80	74 - 130
1,2,3-Trichloropropane	50.0	47.5		ug/L		95	80 - 120
Vinyl acetate	50.0	54.3		ug/L		109	37 - 140
Vinyl chloride	50.0	47.8		ug/L		96	51 - 140
Xylenes, Total	100	96.6		ug/L		97	80 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*71 - 139*
Dibromofluoromethane (Surr)	*92*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*85*		*76 - 121*
Toluene-d8 (Surr)	*104*		*80 - 129*

Lab Sample ID: LCSD 160-309845/4
Matrix: Water
Analysis Batch: 309845

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
Acetone	50.0	38.0		ug/L		76	63 - 131	15	20
Acrylonitrile	500	458		ug/L		92	81 - 117	7	20
Benzene	50.0	41.9		ug/L		84	80 - 120	2	20
Bromochloromethane	50.0	43.5		ug/L		87	80 - 120	5	20
Bromodichloromethane	50.0	42.5		ug/L		85	80 - 120	4	20
Bromoform	50.0	45.5		ug/L		91	80 - 120	6	20
Carbon disulfide	50.0	47.7		ug/L		95	79 - 126	1	20
Carbon tetrachloride	50.0	40.3		ug/L		81	73 - 123	1	20
Chlorobenzene	50.0	45.1		ug/L		90	80 - 120	0	20
Chloroethane	50.0	43.2		ug/L		86	52 - 140	2	20
Chloroform	50.0	40.7		ug/L		81	80 - 120	5	20
cis-1,2-Dichloroethene	50.0	47.2		ug/L		94	80 - 120	4	20
cis-1,3-Dichloropropene	50.0	48.6		ug/L		97	80 - 122	5	20
Dibromochloromethane	50.0	43.3		ug/L		87	80 - 120	3	20
1,2-Dibromo-3-Chloropropane	50.0	43.5		ug/L		87	77 - 125	6	20
1,2-Dibromoethane (EDB)	50.0	45.5		ug/L		91	80 - 120	7	20
1,2-Dichlorobenzene	50.0	44.8		ug/L		90	80 - 120	4	20
1,4-Dichlorobenzene	50.0	45.3		ug/L		91	80 - 120	2	20
1,1-Dichloroethane	50.0	44.0		ug/L		88	80 - 120	2	20
1,2-Dichloroethane	50.0	38.3		ug/L		77	69 - 124	7	20
1,1-Dichloroethene	50.0	45.3		ug/L		91	77 - 126	0	20
1,2-Dichloropropane	50.0	47.8		ug/L		96	80 - 120	4	20
Ethylbenzene	50.0	51.1		ug/L		102	80 - 120	1	20
2-Hexanone	50.0	45.6		ug/L		91	64 - 136	8	20
Methyl bromide	50.0	49.7		ug/L		99	57 - 139	2	20
Methyl chloride	50.0	46.9		ug/L		94	70 - 127	3	20
Methylene bromide	50.0	42.5		ug/L		85	78 - 120	6	20

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

Lab Sample ID: LCSD 160-309845/4
Matrix: Water
Analysis Batch: 309845

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
Methylene Chloride			50.0	44.8		ug/L		90	80 - 120	5	20
Methyl Ethyl Ketone			50.0	42.7		ug/L		85	70 - 130	17	20
Methyl iodide			50.0	43.7		ug/L		87	73 - 125	3	20
4-Methyl-2-pentanone (MIBK)			50.0	51.1		ug/L		102	76 - 129	6	20
Styrene			50.0	48.7		ug/L		97	80 - 120	0	20
1,1,1,2-Tetrachloroethane			50.0	41.6		ug/L		83	80 - 120	5	20
1,1,2,2-Tetrachloroethane			50.0	46.8		ug/L		94	80 - 120	7	20
Tetrachloroethene			50.0	46.2		ug/L		92	80 - 120	2	20
Toluene			50.0	50.1		ug/L		100	80 - 120	0	20
trans-1,4-Dichloro-2-butene			50.0	47.2		ug/L		94	75 - 127	5	20
trans-1,2-Dichloroethene			50.0	47.9		ug/L		96	80 - 120	1	20
trans-1,3-Dichloropropene			50.0	47.5		ug/L		95	80 - 130	4	20
1,1,1-Trichloroethane			50.0	41.5		ug/L		83	76 - 120	1	20
1,1,2-Trichloroethane			50.0	46.9		ug/L		94	80 - 120	2	20
Trichloroethene			50.0	42.9		ug/L		86	73 - 120	4	20
Trichlorofluoromethane			50.0	39.6		ug/L		79	74 - 130	0	20
1,2,3-Trichloropropane			50.0	43.2		ug/L		86	80 - 120	9	20
Vinyl acetate			50.0	50.7		ug/L		101	37 - 140	7	20
Vinyl chloride			50.0	47.0		ug/L		94	51 - 140	2	20
Xylenes, Total			100	96.1		ug/L		96	80 - 121	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*71 - 139*
Dibromofluoromethane (Surr)	*88*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*79*		*76 - 121*
Toluene-d8 (Surr)	*104*		*80 - 129*

Lab Sample ID: 160-22310-A-11 MS
Matrix: Water
Analysis Batch: 309845

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		50.0	46.3		ug/L		93	52 - 138
Acrylonitrile	ND		500	521		ug/L		104	58 - 142
Benzene	4.8	J	50.0	49.1		ug/L		89	80 - 120
Bromochloromethane	ND		50.0	47.0		ug/L		94	72 - 125
Bromodichloromethane	ND		50.0	45.7		ug/L		91	71 - 128
Bromoform	ND		50.0	49.2		ug/L		98	65 - 133
Carbon disulfide	ND		50.0	48.1		ug/L		96	69 - 139
Carbon tetrachloride	ND		50.0	41.0		ug/L		82	70 - 126
Chlorobenzene	0.57	J	50.0	46.9		ug/L		93	80 - 120
Chloroethane	ND		50.0	42.0		ug/L		84	59 - 144
Chloroform	ND		50.0	43.3		ug/L		87	80 - 120
cis-1,2-Dichloroethene	ND		50.0	49.4		ug/L		99	80 - 124
cis-1,3-Dichloropropene	ND		50.0	49.6		ug/L		99	67 - 130
Dibromochloromethane	ND		50.0	45.9		ug/L		92	68 - 133
1,2-Dibromo-3-Chloropropane	ND		50.0	48.7		ug/L		97	58 - 148
1,2-Dibromoethane (EDB)	ND		50.0	49.0		ug/L		98	65 - 138

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

Lab Sample ID: 160-22310-A-11 MS
Matrix: Water
Analysis Batch: 309845

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	ND		50.0	46.5		ug/L		93	80 - 124
1,4-Dichlorobenzene	ND		50.0	45.7		ug/L		91	80 - 120
1,1-Dichloroethane	ND		50.0	45.4		ug/L		91	80 - 120
1,2-Dichloroethane	ND		50.0	42.8		ug/L		86	56 - 136
1,1-Dichloroethene	ND		50.0	45.2		ug/L		90	66 - 137
1,2-Dichloropropane	ND		50.0	50.3		ug/L		101	80 - 123
Ethylbenzene	ND		50.0	47.0		ug/L		94	80 - 121
2-Hexanone	ND		50.0	50.7		ug/L		101	47 - 150
Methyl bromide	ND		50.0	48.2		ug/L		96	53 - 146
Methyl chloride	ND		50.0	46.3		ug/L		93	61 - 137
Methylene bromide	ND		50.0	47.9		ug/L		96	61 - 136
Methylene Chloride	ND		50.0	48.2		ug/L		96	80 - 120
Methyl Ethyl Ketone	ND		50.0	51.2		ug/L		102	58 - 143
Methyl iodide	ND		50.0	45.6		ug/L		91	69 - 124
4-Methyl-2-pentanone (MIBK)	ND		50.0	57.6		ug/L		115	53 - 150
Styrene	ND		50.0	49.5		ug/L		99	44 - 150
1,1,1,2-Tetrachloroethane	ND		50.0	44.3		ug/L		89	80 - 120
1,1,2,2-Tetrachloroethane	ND		50.0	52.0		ug/L		104	60 - 150
Tetrachloroethene	ND		50.0	44.9		ug/L		90	66 - 132
Toluene	ND		50.0	50.3		ug/L		101	75 - 134
trans-1,4-Dichloro-2-butene	ND		50.0	49.2		ug/L		98	55 - 146
trans-1,2-Dichloroethene	ND		50.0	48.7		ug/L		97	79 - 121
trans-1,3-Dichloropropene	ND		50.0	49.7		ug/L		99	68 - 143
1,1,1-Trichloroethane	ND		50.0	42.4		ug/L		85	74 - 123
1,1,2-Trichloroethane	ND		50.0	49.7		ug/L		99	70 - 134
Trichloroethene	ND		50.0	44.4		ug/L		89	63 - 120
Trichlorofluoromethane	ND		50.0	38.9		ug/L		78	53 - 150
1,2,3-Trichloropropane	ND		50.0	48.7		ug/L		97	62 - 137
Vinyl acetate	ND		50.0	57.0		ug/L		114	63 - 150
Vinyl chloride	ND		50.0	45.7		ug/L		91	54 - 140
Xylenes, Total	ND		100	96.8		ug/L		97	80 - 124

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*71 - 139*
Dibromofluoromethane (Surr)	*90*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*87*		*76 - 121*
Toluene-d8 (Surr)	*97*		*80 - 129*

Lab Sample ID: 160-22310-A-11 MSD
Matrix: Water
Analysis Batch: 309845

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		50.0	50.4		ug/L		101	52 - 138	8	20
Acrylonitrile	ND		500	571		ug/L		114	58 - 142	9	20
Benzene	4.8	J	50.0	52.9		ug/L		96	80 - 120	7	20
Bromochloromethane	ND		50.0	50.5		ug/L		101	72 - 125	7	20
Bromodichloromethane	ND		50.0	49.2		ug/L		98	71 - 128	7	20

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

Lab Sample ID: 160-22310-A-11 MSD
Matrix: Water
Analysis Batch: 309845

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	ND		50.0	50.7		ug/L		101	65 - 133	3	20
Carbon disulfide	ND		50.0	50.8		ug/L		102	69 - 139	6	20
Carbon tetrachloride	ND		50.0	43.2		ug/L		86	70 - 126	5	20
Chlorobenzene	0.57	J	50.0	49.5		ug/L		98	80 - 120	5	20
Chloroethane	ND		50.0	44.0		ug/L		88	59 - 144	5	20
Chloroform	ND		50.0	47.0		ug/L		94	80 - 120	8	20
cis-1,2-Dichloroethene	ND		50.0	52.5		ug/L		105	80 - 124	6	20
cis-1,3-Dichloropropene	ND		50.0	54.0		ug/L		108	67 - 130	8	20
Dibromochloromethane	ND		50.0	47.4		ug/L		95	68 - 133	3	20
1,2-Dibromo-3-Chloropropane	ND		50.0	50.8		ug/L		102	58 - 148	4	20
1,2-Dibromoethane (EDB)	ND		50.0	52.1		ug/L		104	65 - 138	6	20
1,2-Dichlorobenzene	ND		50.0	48.4		ug/L		97	80 - 124	4	20
1,4-Dichlorobenzene	ND		50.0	47.5		ug/L		95	80 - 120	4	20
1,1-Dichloroethane	ND		50.0	48.9		ug/L		98	80 - 120	7	20
1,2-Dichloroethane	ND		50.0	45.6		ug/L		91	56 - 136	6	20
1,1-Dichloroethene	ND		50.0	48.1		ug/L		96	66 - 137	6	20
1,2-Dichloropropane	ND		50.0	54.9		ug/L		110	80 - 123	9	20
Ethylbenzene	ND		50.0	49.8		ug/L		100	80 - 121	6	20
2-Hexanone	ND		50.0	54.5		ug/L		109	47 - 150	7	20
Methyl bromide	ND		50.0	51.2		ug/L		102	53 - 146	6	20
Methyl chloride	ND		50.0	47.7		ug/L		95	61 - 137	3	20
Methylene bromide	ND		50.0	50.7		ug/L		101	61 - 136	6	20
Methylene Chloride	ND		50.0	51.3		ug/L		103	80 - 120	6	20
Methyl Ethyl Ketone	ND		50.0	55.9		ug/L		112	58 - 143	9	20
Methyl iodide	ND		50.0	49.0		ug/L		98	69 - 124	7	20
4-Methyl-2-pentanone (MIBK)	ND		50.0	61.3		ug/L		123	53 - 150	6	20
Styrene	ND		50.0	52.8		ug/L		106	44 - 150	6	20
1,1,1,2-Tetrachloroethane	ND		50.0	46.6		ug/L		93	80 - 120	5	20
1,1,2,2-Tetrachloroethane	ND		50.0	53.5		ug/L		107	60 - 150	3	20
Tetrachloroethene	ND		50.0	47.2		ug/L		94	66 - 132	5	20
Toluene	ND		50.0	52.9		ug/L		106	75 - 134	5	20
trans-1,4-Dichloro-2-butene	ND		50.0	52.1		ug/L		104	55 - 146	6	20
trans-1,2-Dichloroethene	ND		50.0	51.4		ug/L		103	79 - 121	5	20
trans-1,3-Dichloropropene	ND		50.0	53.1		ug/L		106	68 - 143	7	20
1,1,1-Trichloroethane	ND		50.0	45.3		ug/L		91	74 - 123	7	20
1,1,2-Trichloroethane	ND		50.0	52.9		ug/L		106	70 - 134	6	20
Trichloroethene	ND		50.0	47.1		ug/L		94	63 - 120	6	20
Trichlorofluoromethane	ND		50.0	41.3		ug/L		83	53 - 150	6	20
1,2,3-Trichloropropane	ND		50.0	50.6		ug/L		101	62 - 137	4	20
Vinyl acetate	ND		50.0	61.9		ug/L		124	63 - 150	8	20
Vinyl chloride	ND		50.0	47.7		ug/L		95	54 - 140	4	20
Xylenes, Total	ND		100	102		ug/L		102	80 - 124	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*71 - 139*
Dibromofluoromethane (Surr)	*89*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*88*		*76 - 121*
Toluene-d8 (Surr)	*95*		*80 - 129*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 160-308557/10
Matrix: Water
Analysis Batch: 308557

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	ND		1.0	0.10	mg/L			05/15/17 17:55	1

Lab Sample ID: LCS 160-308557/11
Matrix: Water
Analysis Batch: 308557

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iodide	4.00	4.45	*	mg/L		111	90 - 110

Lab Sample ID: 160-22264-5 MS
Matrix: Water
Analysis Batch: 308557

Client Sample ID: PZ-113-SS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iodide	ND	*	4.00	3.64		mg/L		91	90 - 110

Lab Sample ID: 160-22264-5 DU
Matrix: Water
Analysis Batch: 308557

Client Sample ID: PZ-113-SS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Iodide	ND	*	ND	*	mg/L		NC	20

Lab Sample ID: MB 160-308845/3
Matrix: Water
Analysis Batch: 308845

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.0212	J	0.20	0.020	mg/L			05/16/17 15:54	1

Lab Sample ID: LCS 160-308845/4
Matrix: Water
Analysis Batch: 308845

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.00	1.93		mg/L		97	90 - 110

Lab Sample ID: MB 160-311591/46
Matrix: Water
Analysis Batch: 311591

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	ND		1.0	0.10	mg/L			06/02/17 04:16	1

Lab Sample ID: LCS 160-311591/47
Matrix: Water
Analysis Batch: 311591

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iodide	4.00	3.92		mg/L		98	90 - 110

Lab Sample ID: 160-22264-2 MS
Matrix: Water
Analysis Batch: 311591

Client Sample ID: PZ-101-SS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iodide	1.1		4.00	5.19		mg/L		102	90 - 110

Lab Sample ID: 160-22310-F-6 MS
Matrix: Water
Analysis Batch: 311591

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iodide	ND		4.00	3.74		mg/L		94	90 - 110

Lab Sample ID: 160-22310-F-6 DU
Matrix: Water
Analysis Batch: 311591

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Iodide	ND		ND		mg/L		NC	20

Lab Sample ID: MB 160-312151/4
Matrix: Water
Analysis Batch: 312151

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10	0.026	mg/L			06/06/17 18:13	1
Sulfate	ND		0.50	0.050	mg/L			06/06/17 18:13	1

Lab Sample ID: LCS 160-312151/5
Matrix: Water
Analysis Batch: 312151

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	1.00	0.996		mg/L		100	90 - 110
Sulfate	8.00	8.09		mg/L		101	90 - 110

Lab Sample ID: 160-22264-13 MS
Matrix: Water
Analysis Batch: 312151

Client Sample ID: PZ-302-AI
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.18		2.00	2.19		mg/L		101	90 - 110
Sulfate	16	F1	4.00	20.4	E F1	mg/L		120	90 - 110

Lab Sample ID: MB 160-312598/3
Matrix: Water
Analysis Batch: 312598

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	ND		0.50	0.050	mg/L			06/08/17 14:33	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 160-312598/4
Matrix: Water
Analysis Batch: 312598

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate	8.00	7.87		mg/L		98	90 - 110

Method: 300.0 - Anions, Ion Chromatography - DL

Lab Sample ID: 160-22264-2 MS
Matrix: Water
Analysis Batch: 308845

Client Sample ID: PZ-101-SS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride - DL	240	B	200	429		mg/L		96	90 - 110

Lab Sample ID: 160-22264-2 DU
Matrix: Water
Analysis Batch: 308845

Client Sample ID: PZ-101-SS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride - DL	240	B	243		mg/L		2	20

Lab Sample ID: 160-22310-F-6 MS
Matrix: Water
Analysis Batch: 312598

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate - DL	20		100	115		mg/L		95	90 - 110

Lab Sample ID: 160-22310-F-6 DU
Matrix: Water
Analysis Batch: 312598

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate - DL	20		19.1		mg/L		4	20

Method: 300.0 - Anions, Ion Chromatography - RADL

Lab Sample ID: 160-22264-5 MS
Matrix: Water
Analysis Batch: 312151

Client Sample ID: PZ-113-SS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride - RADL	2.5		20.0	21.9		mg/L		97	90 - 110
Sulfate - RADL	17		40.0	54.3		mg/L		92	90 - 110

Lab Sample ID: 160-22264-5 DU
Matrix: Water
Analysis Batch: 312151

Client Sample ID: PZ-113-SS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride - RADL	2.5		2.54		mg/L		0.5	20
Sulfate - RADL	17		17.1		mg/L		2	20

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 160-308583/1-A
Matrix: Water
Analysis Batch: 309592

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 308583

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	3.0	ug/L		05/15/17 15:35	05/18/17 18:34	1
Iron	ND		100	30	ug/L		05/15/17 15:35	05/18/17 18:34	1
Arsenic	ND		10	4.0	ug/L		05/15/17 15:35	05/18/17 18:34	1
Barium	ND		50	15	ug/L		05/15/17 15:35	05/18/17 18:34	1
Beryllium	ND		5.0	1.5	ug/L		05/15/17 15:35	05/18/17 18:34	1
Boron	ND		100	25	ug/L		05/15/17 15:35	05/18/17 18:34	1
Cadmium	ND		5.0	1.5	ug/L		05/15/17 15:35	05/18/17 18:34	1
CaHard	ND		2500	750	ug/L		05/15/17 15:35	05/18/17 18:34	1
Calcium	ND		1000	300	ug/L		05/15/17 15:35	05/18/17 18:34	1
Chromium	ND		10	3.0	ug/L		05/15/17 15:35	05/18/17 18:34	1
Cobalt	ND		50	15	ug/L		05/15/17 15:35	05/18/17 18:34	1
Copper	ND		25	7.0	ug/L		05/15/17 15:35	05/18/17 18:34	1
Lead	ND		10	3.0	ug/L		05/15/17 15:35	05/18/17 18:34	1
Magnesium	ND		1000	300	ug/L		05/15/17 15:35	05/18/17 18:34	1
Manganese	ND		15	4.0	ug/L		05/15/17 15:35	05/18/17 18:34	1
MgHard	ND		4100	1200	ug/L		05/15/17 15:35	05/18/17 18:34	1
Nickel	ND		40	10	ug/L		05/15/17 15:35	05/18/17 18:34	1
Phosphorus	ND		250	75	ug/L		05/15/17 15:35	05/18/17 18:34	1
Selenium	ND		15	8.0	ug/L		05/15/17 15:35	05/18/17 18:34	1
Silver	ND		10	3.0	ug/L		05/15/17 15:35	05/18/17 18:34	1
Sodium	ND		1000	300	ug/L		05/15/17 15:35	05/18/17 18:34	1
Thallium	ND		20	5.0	ug/L		05/15/17 15:35	05/18/17 18:34	1
Total Hardness	ND		6600	2000	ug/L		05/15/17 15:35	05/18/17 18:34	1
Vanadium	ND		50	25	ug/L		05/15/17 15:35	05/18/17 18:34	1
Zinc	ND		20	6.0	ug/L		05/15/17 15:35	05/18/17 18:34	1

Lab Sample ID: LCS 160-308583/2-A
Matrix: Water
Analysis Batch: 309592

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 308583

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	500	477		ug/L		95	80 - 120
Iron	10000	9850		ug/L		98	80 - 120
Arsenic	1000	963		ug/L		96	80 - 120
Barium	1000	981		ug/L		98	80 - 120
Beryllium	100	96.0		ug/L		96	80 - 120
Boron	200	200		ug/L		100	80 - 120
Cadmium	1000	971		ug/L		97	80 - 120
Calcium	10000	10300		ug/L		103	80 - 120
Chromium	1000	1020		ug/L		102	80 - 120
Cobalt	1000	1030		ug/L		103	80 - 120
Copper	1000	990		ug/L		99	80 - 120
Lead	1000	1020		ug/L		102	80 - 120
Magnesium	10000	9860		ug/L		99	80 - 120
Manganese	1000	990		ug/L		99	80 - 120
Nickel	1000	1030		ug/L		103	80 - 120
Phosphorus	1000	1040		ug/L		104	80 - 120
Selenium	500	494		ug/L		99	80 - 120

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

Lab Sample ID: LCS 160-308583/2-A
Matrix: Water
Analysis Batch: 309592

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 308583

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Silver	200	195		ug/L		98	80 - 120
Sodium	10000	9780		ug/L		98	80 - 120
Thallium	200	216		ug/L		108	80 - 120
Vanadium	1000	963		ug/L		96	80 - 120
Zinc	1000	976		ug/L		98	80 - 120

Lab Sample ID: 160-22264-2 MS
Matrix: Water
Analysis Batch: 309592

Client Sample ID: PZ-101-SS
Prep Type: Total/NA
Prep Batch: 308583

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		500	492		ug/L		98	75 - 125
Iron	5200		10000	15200		ug/L		100	75 - 125
Arsenic	120		1000	1090		ug/L		98	75 - 125
Barium	570		1000	1570		ug/L		100	75 - 125
Beryllium	ND		100	99.5		ug/L		100	75 - 125
Boron	720		200	906		ug/L		95	75 - 125
Cadmium	ND		1000	984		ug/L		98	75 - 125
Calcium	190000		10000	196000	4	ug/L		55	75 - 125
Chromium	ND		1000	1020		ug/L		102	75 - 125
Cobalt	ND		1000	1020		ug/L		102	75 - 125
Copper	ND		1000	996		ug/L		100	75 - 125
Lead	ND		1000	1030		ug/L		103	75 - 125
Magnesium	96000		10000	106000	4	ug/L		101	75 - 125
Manganese	150		1000	1140		ug/L		99	75 - 125
Nickel	ND		1000	1050		ug/L		105	75 - 125
Phosphorus	ND	F1	1000	1230	J	ug/L		123	75 - 125
Selenium	ND		500	493		ug/L		99	75 - 125
Silver	ND		200	204		ug/L		102	75 - 125
Sodium	89000		10000	99000	4	ug/L		105	75 - 125
Thallium	ND		200	228		ug/L		114	75 - 125
Vanadium	ND		1000	990		ug/L		99	75 - 125
Zinc	ND		1000	991		ug/L		99	75 - 125

Lab Sample ID: 160-22264-2 MSD
Matrix: Water
Analysis Batch: 309592

Client Sample ID: PZ-101-SS
Prep Type: Total/NA
Prep Batch: 308583

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		500	532		ug/L		106	75 - 125	8	20
Iron	5200		10000	15300		ug/L		101	75 - 125	0	20
Arsenic	120		1000	1160		ug/L		104	75 - 125	6	20
Barium	570		1000	1580		ug/L		101	75 - 125	1	20
Beryllium	ND		100	98.5		ug/L		99	75 - 125	1	20
Boron	720		200	914		ug/L		99	75 - 125	1	20
Cadmium	ND		1000	1040		ug/L		104	75 - 125	5	20
Calcium	190000		10000	211000	4	ug/L		201	75 - 125	7	20
Chromium	ND		1000	1070		ug/L		107	75 - 125	5	20
Cobalt	ND		1000	1070		ug/L		107	75 - 125	6	20

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

Lab Sample ID: 160-22264-2 MSD — **Client Sample ID: PZ-101-SS**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 309592 — **Prep Batch: 308583**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Copper	ND		1000	1060		ug/L		106	75 - 125	6	20
Lead	ND		1000	1090		ug/L		109	75 - 125	5	20
Magnesium	96000		10000	108000	4	ug/L		121	75 - 125	2	20
Manganese	150		1000	1140		ug/L		99	75 - 125	0	20
Nickel	ND		1000	1100		ug/L		110	75 - 125	5	20
Phosphorus	ND	F1	1000	1290	J F1	ug/L		129	75 - 125	5	20
Selenium	ND		500	506		ug/L		101	75 - 125	3	20
Silver	ND		200	201		ug/L		100	75 - 125	1	20
Sodium	89000		10000	101000	4	ug/L		125	75 - 125	2	20
Thallium	ND		200	230		ug/L		115	75 - 125	1	20
Vanadium	ND		1000	999		ug/L		100	75 - 125	1	20
Zinc	ND		1000	1050		ug/L		105	75 - 125	5	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 160-311948/1-A — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 312038 — **Prep Batch: 311948**

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		06/05/17 09:53	06/05/17 17:23	1

Lab Sample ID: LCS 160-311948/2-A — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 312038 — **Prep Batch: 311948**

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	4.73		ug/L		95	80 - 120

Lab Sample ID: 160-22264-3 MS — **Client Sample ID: PZ-102R-SS**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 312038 — **Prep Batch: 311948**

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		5.00	4.74		ug/L		95	80 - 120

Lab Sample ID: 160-22264-3 MSD — **Client Sample ID: PZ-102R-SS**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 312038 — **Prep Batch: 311948**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		5.00	4.80		ug/L		96	80 - 120	1	20

Method: 160.1 - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 160-308494/1
Matrix: Water
Analysis Batch: 308494

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	ND		5.0	3.5	mg/L			05/15/17 07:42	1

Lab Sample ID: LCS 160-308494/2
Matrix: Water
Analysis Batch: 308494

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids (TDS)	500	496		mg/L		99	90 - 110

Lab Sample ID: 160-22264-2 DU
Matrix: Water
Analysis Batch: 308494

Client Sample ID: PZ-101-SS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids (TDS)	1200		1180		mg/L		0	5

Lab Sample ID: MB 160-308609/1
Matrix: Water
Analysis Batch: 308609

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	ND		5.0	3.5	mg/L			05/16/17 07:19	1

Lab Sample ID: LCS 160-308609/2
Matrix: Water
Analysis Batch: 308609

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids (TDS)	500	504		mg/L		101	90 - 110

Lab Sample ID: 160-22264-9 DU
Matrix: Water
Analysis Batch: 308609

Client Sample ID: MW-12OU
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids (TDS)	2700		2760		mg/L		3	5

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 160-311549/15
Matrix: Water
Analysis Batch: 311549

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		50	22	ug/L			05/31/17 23:12	1

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: LCS 160-311549/16
Matrix: Water
Analysis Batch: 311549

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia			500	458		ug/L		92	90 - 110		

Lab Sample ID: 160-22238-D-2 MS
Matrix: Water
Analysis Batch: 311549

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia	250	F1	500	839	F1	ug/L		118	90 - 110		

Lab Sample ID: 160-22238-D-2 DU
Matrix: Water
Analysis Batch: 311549

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ammonia	250	F1		254		ug/L				2	20

Lab Sample ID: MB 160-312154/11
Matrix: Water
Analysis Batch: 312154

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		50	22	ug/L			06/06/17 16:53	1

Lab Sample ID: LCS 160-312154/12
Matrix: Water
Analysis Batch: 312154

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia			500	501		ug/L		100	90 - 110		

Lab Sample ID: 160-22264-12 MS
Matrix: Water
Analysis Batch: 312154

Client Sample ID: PZ-302-AS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia	980	F1	500	1610	F1	ug/L		126	90 - 110		

Lab Sample ID: 160-22264-12 DU
Matrix: Water
Analysis Batch: 312154

Client Sample ID: PZ-302-AS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ammonia	980	F1		980		ug/L				0.3	20

Method: 350.1 - Nitrogen, Ammonia - DL

Lab Sample ID: 160-22264-2 MS
Matrix: Water
Analysis Batch: 311549

Client Sample ID: PZ-101-SS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia - DL	13000	F1	10000	25200	F1	ug/L		117	90 - 110

Method: 353.1 Preserved - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 160-310708/17
Matrix: Water
Analysis Batch: 310708

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		50	22	ug/L			05/25/17 16:38	1

Lab Sample ID: LCS 160-310708/18
Matrix: Water
Analysis Batch: 310708

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	500	516		ug/L		103	90 - 110

Lab Sample ID: 160-22238-D-2 MS
Matrix: Water
Analysis Batch: 310708

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	ND	F1	500	23.7	J F1	ug/L		5	90 - 110

Lab Sample ID: 160-22264-2 MS
Matrix: Water
Analysis Batch: 310708

Client Sample ID: PZ-101-SS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	ND	F1	500	ND	F1	ug/L		0	90 - 110

Lab Sample ID: 160-22238-D-2 DU
Matrix: Water
Analysis Batch: 310708

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	ND	F1	ND		ug/L		NC	20

Lab Sample ID: MB 160-312153/13
Matrix: Water
Analysis Batch: 312153

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	31.4	J	50	22	ug/L			06/06/17 17:26	1

Method: 353.1 Preserved - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: LCS 160-312153/14
Matrix: Water
Analysis Batch: 312153

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	500	486		ug/L		97	90 - 110

Lab Sample ID: 160-22264-12 MS
Matrix: Water
Analysis Batch: 312153

Client Sample ID: PZ-302-AS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	ND	F1	500	ND	F1	ug/L		0	90 - 110

Lab Sample ID: 160-22264-12 DU
Matrix: Water
Analysis Batch: 312153

Client Sample ID: PZ-302-AS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	ND	F1	ND		ug/L		NC	20

Method: 410.4 - COD

Lab Sample ID: MB 160-311521/3-A
Matrix: Water
Analysis Batch: 311566

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 311521

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		5.0	2.4	mg/L		06/01/17 10:06	06/01/17 14:27	1

Lab Sample ID: LCS 160-311521/4-A
Matrix: Water
Analysis Batch: 311566

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 311521

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	50.0	48.0		mg/L		96	90 - 110

Lab Sample ID: 160-22264-5 MS
Matrix: Water
Analysis Batch: 311566

Client Sample ID: PZ-113-SS
Prep Type: Total/NA
Prep Batch: 311521

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	ND		50.0	52.0		mg/L		104	90 - 110

Lab Sample ID: 160-22264-13 MS
Matrix: Water
Analysis Batch: 311566

Client Sample ID: PZ-302-AI
Prep Type: Total/NA
Prep Batch: 311521

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	14		50.0	68.0		mg/L		108	90 - 110

Method: 410.4 - COD (Continued)

Lab Sample ID: 160-22264-5 DU
Matrix: Water
Analysis Batch: 311566

Client Sample ID: PZ-113-SS
Prep Type: Total/NA
Prep Batch: 311521

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chemical Oxygen Demand	ND			ND		mg/L				NC	20

Method: 415.1 - TOC

Lab Sample ID: MB 160-311962/4
Matrix: Water
Analysis Batch: 311962

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	ND		1.0	0.72	mg/L			06/03/17 16:46	1

Lab Sample ID: LCS 160-311962/5
Matrix: Water
Analysis Batch: 311962

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			10.0	9.68		mg/L		97	90 - 110		

Lab Sample ID: 160-22211-D-7 MS
Matrix: Water
Analysis Batch: 311962

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon	3.0		5.00	7.31		mg/L		87	76 - 120		

Lab Sample ID: 160-22211-D-7 DU
Matrix: Water
Analysis Batch: 311962

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Organic Carbon	3.0			2.47		mg/L				19	20

Method: 415.1 - TOC - DL

Lab Sample ID: 160-22264-7 MS
Matrix: Water
Analysis Batch: 311962

Client Sample ID: PZ-113-AS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon - DL	18		50.0	69.4		mg/L		103	76 - 120		

Method: 906.0 - Tritium, Total (LSC)

Lab Sample ID: MB 160-311550/1-A
Matrix: Water
Analysis Batch: 311714

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 311550

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-9.459	U	144	144	500	262	pCi/L	06/01/17 12:29	06/01/17 17:47	1

Lab Sample ID: LCS 160-311550/2-A
Matrix: Water
Analysis Batch: 311714

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 311550

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Tritium			2900	2870		418	500	261	pCi/L	99	74 - 114		

Lab Sample ID: 160-22264-3 MS
Matrix: Water
Analysis Batch: 311714

Client Sample ID: PZ-102R-SS
Prep Type: Total/NA
Prep Batch: 311550

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Tritium	-5.86	U	2900	2722		413	500	276	pCi/L	94	67 - 130		

Lab Sample ID: 160-22264-2 DU
Matrix: Water
Analysis Batch: 311714

Client Sample ID: PZ-101-SS
Prep Type: Total/NA
Prep Batch: 311550

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Tritium	5520			5208		629	500	263	pCi/L			0.24	1

GC/MS VOA

Analysis Batch: 309165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22264-1	TRIP BLANK	Total/NA	Water	8260C	
160-22264-2	PZ-101-SS	Total/NA	Water	8260C	
160-22264-3	PZ-102R-SS	Total/NA	Water	8260C	
160-22264-4	PZ-103-SS	Total/NA	Water	8260C	
160-22264-5	PZ-113-SS	Total/NA	Water	8260C	
160-22264-6	PZ-113-AD	Total/NA	Water	8260C	
160-22264-7	PZ-113-AS	Total/NA	Water	8260C	
160-22264-8	PZ-112-AS	Total/NA	Water	8260C	
160-22264-11	PZ-203-SS	Total/NA	Water	8260C	
160-22264-12	PZ-302-AS	Total/NA	Water	8260C	
160-22264-13	PZ-302-AI	Total/NA	Water	8260C	
MB 160-309165/7	Method Blank	Total/NA	Water	8260C	
LCS 160-309165/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 160-309165/5	Lab Control Sample Dup	Total/NA	Water	8260C	
160-22264-2 MS	PZ-101-SS	Total/NA	Water	8260C	
160-22264-2 MSD	PZ-101-SS	Total/NA	Water	8260C	

Analysis Batch: 309388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22264-8	PZ-112-AS	Total/NA	Water	8260C	
160-22264-9	MW-12OU	Total/NA	Water	8260C	
160-22264-10	I-73	Total/NA	Water	8260C	
MB 160-309388/7	Method Blank	Total/NA	Water	8260C	
LCS 160-309388/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 160-309388/5	Lab Control Sample Dup	Total/NA	Water	8260C	
160-22310-A-6 MS	Matrix Spike	Total/NA	Water	8260C	
160-22310-A-6 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

Analysis Batch: 309845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22264-7 - DL	PZ-113-AS	Total/NA	Water	8260C	
MB 160-309845/8	Method Blank	Total/NA	Water	8260C	
LCS 160-309845/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 160-309845/4	Lab Control Sample Dup	Total/NA	Water	8260C	
160-22310-A-11 MS	Matrix Spike	Total/NA	Water	8260C	
160-22310-A-11 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 308557

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22264-3	PZ-102R-SS	Total/NA	Water	300.0	
160-22264-4	PZ-103-SS	Total/NA	Water	300.0	
160-22264-5	PZ-113-SS	Total/NA	Water	300.0	
160-22264-6	PZ-113-AD	Total/NA	Water	300.0	
160-22264-7	PZ-113-AS	Total/NA	Water	300.0	
160-22264-8	PZ-112-AS	Total/NA	Water	300.0	
160-22264-9 - DL	MW-12OU	Total/NA	Water	300.0	
160-22264-10 - DL	I-73	Total/NA	Water	300.0	
160-22264-11	PZ-203-SS	Total/NA	Water	300.0	

HPLC/IC (Continued)

Analysis Batch: 308557 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22264-12	PZ-302-AS	Total/NA	Water	300.0	
160-22264-13	PZ-302-AI	Total/NA	Water	300.0	
MB 160-308557/10	Method Blank	Total/NA	Water	300.0	
LCS 160-308557/11	Lab Control Sample	Total/NA	Water	300.0	
160-22264-5 MS	PZ-113-SS	Total/NA	Water	300.0	
160-22264-5 DU	PZ-113-SS	Total/NA	Water	300.0	

Analysis Batch: 308845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22264-2 - DL	PZ-101-SS	Total/NA	Water	300.0	
160-22264-3 - DL	PZ-102R-SS	Total/NA	Water	300.0	
160-22264-4 - DL	PZ-103-SS	Total/NA	Water	300.0	
160-22264-5 - DL	PZ-113-SS	Total/NA	Water	300.0	
160-22264-6 - DL	PZ-113-AD	Total/NA	Water	300.0	
160-22264-7 - DL	PZ-113-AS	Total/NA	Water	300.0	
160-22264-8 - DL	PZ-112-AS	Total/NA	Water	300.0	
160-22264-9 - DL	MW-12OU	Total/NA	Water	300.0	
160-22264-10 - DL	I-73	Total/NA	Water	300.0	
160-22264-11 - DL	PZ-203-SS	Total/NA	Water	300.0	
160-22264-12 - DL	PZ-302-AS	Total/NA	Water	300.0	
160-22264-13 - DL	PZ-302-AI	Total/NA	Water	300.0	
MB 160-308845/3	Method Blank	Total/NA	Water	300.0	
LCS 160-308845/4	Lab Control Sample	Total/NA	Water	300.0	
160-22264-2 MS - DL	PZ-101-SS	Total/NA	Water	300.0	
160-22264-2 DU - DL	PZ-101-SS	Total/NA	Water	300.0	

Analysis Batch: 311591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22264-2	PZ-101-SS	Total/NA	Water	300.0	
MB 160-311591/46	Method Blank	Total/NA	Water	300.0	
LCS 160-311591/47	Lab Control Sample	Total/NA	Water	300.0	
160-22264-2 MS	PZ-101-SS	Total/NA	Water	300.0	
160-22310-F-6 MS	Matrix Spike	Total/NA	Water	300.0	
160-22310-F-6 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 312151

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22264-2 - RADL	PZ-101-SS	Total/NA	Water	300.0	
160-22264-3 - RADL	PZ-102R-SS	Total/NA	Water	300.0	
160-22264-4	PZ-103-SS	Total/NA	Water	300.0	
160-22264-5 - RADL	PZ-113-SS	Total/NA	Water	300.0	
160-22264-6	PZ-113-AD	Total/NA	Water	300.0	
160-22264-7	PZ-113-AS	Total/NA	Water	300.0	
160-22264-8	PZ-112-AS	Total/NA	Water	300.0	
160-22264-9	MW-12OU	Total/NA	Water	300.0	
160-22264-10	I-73	Total/NA	Water	300.0	
160-22264-11	PZ-203-SS	Total/NA	Water	300.0	
160-22264-11 - RADL	PZ-203-SS	Total/NA	Water	300.0	
160-22264-12	PZ-302-AS	Total/NA	Water	300.0	
160-22264-13	PZ-302-AI	Total/NA	Water	300.0	
MB 160-312151/4	Method Blank	Total/NA	Water	300.0	

HPLC/IC (Continued)

Analysis Batch: 312151 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 160-312151/5	Lab Control Sample	Total/NA	Water	300.0	
160-22264-5 MS - RADL	PZ-113-SS	Total/NA	Water	300.0	
160-22264-13 MS	PZ-302-AI	Total/NA	Water	300.0	
160-22264-5 DU - RADL	PZ-113-SS	Total/NA	Water	300.0	

Analysis Batch: 312598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22264-2 - RADL	PZ-101-SS	Total/NA	Water	300.0	
MB 160-312598/3	Method Blank	Total/NA	Water	300.0	
LCS 160-312598/4	Lab Control Sample	Total/NA	Water	300.0	
160-22310-F-6 MS - DL	Matrix Spike	Total/NA	Water	300.0	
160-22310-F-6 DU - DL	Duplicate	Total/NA	Water	300.0	

Metals

Prep Batch: 308583

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22264-2	PZ-101-SS	Total/NA	Water	3010A	
160-22264-3	PZ-102R-SS	Total/NA	Water	3010A	
160-22264-4	PZ-103-SS	Total/NA	Water	3010A	
160-22264-5	PZ-113-SS	Total/NA	Water	3010A	
160-22264-6	PZ-113-AD	Total/NA	Water	3010A	
160-22264-7	PZ-113-AS	Total/NA	Water	3010A	
160-22264-8	PZ-112-AS	Total/NA	Water	3010A	
160-22264-9	MW-12OU	Total/NA	Water	3010A	
160-22264-10	I-73	Total/NA	Water	3010A	
160-22264-11	PZ-203-SS	Total/NA	Water	3010A	
160-22264-12	PZ-302-AS	Total/NA	Water	3010A	
160-22264-13	PZ-302-AI	Total/NA	Water	3010A	
MB 160-308583/1-A	Method Blank	Total/NA	Water	3010A	
LCS 160-308583/2-A	Lab Control Sample	Total/NA	Water	3010A	
160-22264-2 MS	PZ-101-SS	Total/NA	Water	3010A	
160-22264-2 MSD	PZ-101-SS	Total/NA	Water	3010A	

Analysis Batch: 309592

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22264-2	PZ-101-SS	Total/NA	Water	6010C	308583
160-22264-3	PZ-102R-SS	Total/NA	Water	6010C	308583
160-22264-4	PZ-103-SS	Total/NA	Water	6010C	308583
160-22264-5	PZ-113-SS	Total/NA	Water	6010C	308583
160-22264-6	PZ-113-AD	Total/NA	Water	6010C	308583
160-22264-7	PZ-113-AS	Total/NA	Water	6010C	308583
160-22264-8	PZ-112-AS	Total/NA	Water	6010C	308583
160-22264-9	MW-12OU	Total/NA	Water	6010C	308583
160-22264-10	I-73	Total/NA	Water	6010C	308583
160-22264-11	PZ-203-SS	Total/NA	Water	6010C	308583
160-22264-12	PZ-302-AS	Total/NA	Water	6010C	308583
160-22264-13	PZ-302-AI	Total/NA	Water	6010C	308583
MB 160-308583/1-A	Method Blank	Total/NA	Water	6010C	308583
LCS 160-308583/2-A	Lab Control Sample	Total/NA	Water	6010C	308583

Metals (Continued)

Analysis Batch: 309592 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22264-2 MS	PZ-101-SS	Total/NA	Water	6010C	308583
160-22264-2 MSD	PZ-101-SS	Total/NA	Water	6010C	308583

Prep Batch: 311948

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22264-2	PZ-101-SS	Total/NA	Water	7470A	
160-22264-3	PZ-102R-SS	Total/NA	Water	7470A	
160-22264-4	PZ-103-SS	Total/NA	Water	7470A	
160-22264-5	PZ-113-SS	Total/NA	Water	7470A	
160-22264-6	PZ-113-AD	Total/NA	Water	7470A	
160-22264-7	PZ-113-AS	Total/NA	Water	7470A	
160-22264-8	PZ-112-AS	Total/NA	Water	7470A	
160-22264-9	MW-12OU	Total/NA	Water	7470A	
160-22264-10	I-73	Total/NA	Water	7470A	
160-22264-11	PZ-203-SS	Total/NA	Water	7470A	
160-22264-12	PZ-302-AS	Total/NA	Water	7470A	
160-22264-13	PZ-302-AI	Total/NA	Water	7470A	
MB 160-311948/1-A	Method Blank	Total/NA	Water	7470A	
LCS 160-311948/2-A	Lab Control Sample	Total/NA	Water	7470A	
160-22264-3 MS	PZ-102R-SS	Total/NA	Water	7470A	
160-22264-3 MSD	PZ-102R-SS	Total/NA	Water	7470A	

Analysis Batch: 312038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22264-2	PZ-101-SS	Total/NA	Water	7470A	311948
160-22264-3	PZ-102R-SS	Total/NA	Water	7470A	311948
160-22264-4	PZ-103-SS	Total/NA	Water	7470A	311948
160-22264-5	PZ-113-SS	Total/NA	Water	7470A	311948
160-22264-6	PZ-113-AD	Total/NA	Water	7470A	311948
160-22264-7	PZ-113-AS	Total/NA	Water	7470A	311948
160-22264-8	PZ-112-AS	Total/NA	Water	7470A	311948
160-22264-9	MW-12OU	Total/NA	Water	7470A	311948
160-22264-10	I-73	Total/NA	Water	7470A	311948
160-22264-11	PZ-203-SS	Total/NA	Water	7470A	311948
160-22264-12	PZ-302-AS	Total/NA	Water	7470A	311948
160-22264-13	PZ-302-AI	Total/NA	Water	7470A	311948
MB 160-311948/1-A	Method Blank	Total/NA	Water	7470A	311948
LCS 160-311948/2-A	Lab Control Sample	Total/NA	Water	7470A	311948
160-22264-3 MS	PZ-102R-SS	Total/NA	Water	7470A	311948
160-22264-3 MSD	PZ-102R-SS	Total/NA	Water	7470A	311948

General Chemistry

Analysis Batch: 308494

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22264-2	PZ-101-SS	Total/NA	Water	160.1	
160-22264-3	PZ-102R-SS	Total/NA	Water	160.1	
160-22264-4	PZ-103-SS	Total/NA	Water	160.1	
160-22264-5	PZ-113-SS	Total/NA	Water	160.1	
160-22264-6	PZ-113-AD	Total/NA	Water	160.1	

General Chemistry (Continued)

Analysis Batch: 308494 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22264-7	PZ-113-AS	Total/NA	Water	160.1	
160-22264-8	PZ-112-AS	Total/NA	Water	160.1	
MB 160-308494/1	Method Blank	Total/NA	Water	160.1	
LCS 160-308494/2	Lab Control Sample	Total/NA	Water	160.1	
160-22264-2 DU	PZ-101-SS	Total/NA	Water	160.1	

Analysis Batch: 308609

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22264-9	MW-12OU	Total/NA	Water	160.1	
160-22264-10	I-73	Total/NA	Water	160.1	
160-22264-11	PZ-203-SS	Total/NA	Water	160.1	
160-22264-12	PZ-302-AS	Total/NA	Water	160.1	
160-22264-13	PZ-302-AI	Total/NA	Water	160.1	
MB 160-308609/1	Method Blank	Total/NA	Water	160.1	
LCS 160-308609/2	Lab Control Sample	Total/NA	Water	160.1	
160-22264-9 DU	MW-12OU	Total/NA	Water	160.1	

Analysis Batch: 310708

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22264-2	PZ-101-SS	Total/NA	Water	353.1 Preserved	
160-22264-3	PZ-102R-SS	Total/NA	Water	353.1 Preserved	
160-22264-4	PZ-103-SS	Total/NA	Water	353.1 Preserved	
160-22264-5	PZ-113-SS	Total/NA	Water	353.1 Preserved	
160-22264-6	PZ-113-AD	Total/NA	Water	353.1 Preserved	
160-22264-7	PZ-113-AS	Total/NA	Water	353.1 Preserved	
160-22264-8	PZ-112-AS	Total/NA	Water	353.1 Preserved	
160-22264-9	MW-12OU	Total/NA	Water	353.1 Preserved	
160-22264-10	I-73	Total/NA	Water	353.1 Preserved	
160-22264-11	PZ-203-SS	Total/NA	Water	353.1 Preserved	
MB 160-310708/17	Method Blank	Total/NA	Water	353.1 Preserved	
LCS 160-310708/18	Lab Control Sample	Total/NA	Water	353.1 Preserved	
160-22238-D-2 MS	Matrix Spike	Total/NA	Water	353.1 Preserved	
160-22264-2 MS	PZ-101-SS	Total/NA	Water	353.1 Preserved	
160-22238-D-2 DU	Duplicate	Total/NA	Water	353.1 Preserved	

Prep Batch: 311521

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22264-2	PZ-101-SS	Total/NA	Water	410.4	
160-22264-3	PZ-102R-SS	Total/NA	Water	410.4	
160-22264-4	PZ-103-SS	Total/NA	Water	410.4	
160-22264-5	PZ-113-SS	Total/NA	Water	410.4	
160-22264-6	PZ-113-AD	Total/NA	Water	410.4	
160-22264-7	PZ-113-AS	Total/NA	Water	410.4	
160-22264-8	PZ-112-AS	Total/NA	Water	410.4	
160-22264-9	MW-12OU	Total/NA	Water	410.4	
160-22264-10	I-73	Total/NA	Water	410.4	
160-22264-11	PZ-203-SS	Total/NA	Water	410.4	
160-22264-12	PZ-302-AS	Total/NA	Water	410.4	
160-22264-13	PZ-302-AI	Total/NA	Water	410.4	
MB 160-311521/3-A	Method Blank	Total/NA	Water	410.4	
LCS 160-311521/4-A	Lab Control Sample	Total/NA	Water	410.4	

General Chemistry (Continued)

Prep Batch: 311521 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22264-5 MS	PZ-113-SS	Total/NA	Water	410.4	
160-22264-13 MS	PZ-302-AI	Total/NA	Water	410.4	
160-22264-5 DU	PZ-113-SS	Total/NA	Water	410.4	

Analysis Batch: 311549

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22264-2 - DL	PZ-101-SS	Total/NA	Water	350.1	
160-22264-3	PZ-102R-SS	Total/NA	Water	350.1	
160-22264-4	PZ-103-SS	Total/NA	Water	350.1	
160-22264-5	PZ-113-SS	Total/NA	Water	350.1	
160-22264-6 - DL	PZ-113-AD	Total/NA	Water	350.1	
160-22264-7 - DL	PZ-113-AS	Total/NA	Water	350.1	
160-22264-8 - DL	PZ-112-AS	Total/NA	Water	350.1	
160-22264-9 - DL	MW-12OU	Total/NA	Water	350.1	
160-22264-10 - DL	I-73	Total/NA	Water	350.1	
160-22264-11	PZ-203-SS	Total/NA	Water	350.1	
MB 160-311549/15	Method Blank	Total/NA	Water	350.1	
LCS 160-311549/16	Lab Control Sample	Total/NA	Water	350.1	
160-22238-D-2 MS	Matrix Spike	Total/NA	Water	350.1	
160-22264-2 MS - DL	PZ-101-SS	Total/NA	Water	350.1	
160-22238-D-2 DU	Duplicate	Total/NA	Water	350.1	

Analysis Batch: 311566

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22264-2	PZ-101-SS	Total/NA	Water	410.4	311521
160-22264-3	PZ-102R-SS	Total/NA	Water	410.4	311521
160-22264-4	PZ-103-SS	Total/NA	Water	410.4	311521
160-22264-5	PZ-113-SS	Total/NA	Water	410.4	311521
160-22264-6	PZ-113-AD	Total/NA	Water	410.4	311521
160-22264-7	PZ-113-AS	Total/NA	Water	410.4	311521
160-22264-8	PZ-112-AS	Total/NA	Water	410.4	311521
160-22264-9	MW-12OU	Total/NA	Water	410.4	311521
160-22264-10	I-73	Total/NA	Water	410.4	311521
160-22264-11	PZ-203-SS	Total/NA	Water	410.4	311521
160-22264-12	PZ-302-AS	Total/NA	Water	410.4	311521
160-22264-13	PZ-302-AI	Total/NA	Water	410.4	311521
MB 160-311521/3-A	Method Blank	Total/NA	Water	410.4	311521
LCS 160-311521/4-A	Lab Control Sample	Total/NA	Water	410.4	311521
160-22264-5 MS	PZ-113-SS	Total/NA	Water	410.4	311521
160-22264-13 MS	PZ-302-AI	Total/NA	Water	410.4	311521
160-22264-5 DU	PZ-113-SS	Total/NA	Water	410.4	311521

Analysis Batch: 311962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22264-2 - DL	PZ-101-SS	Total/NA	Water	415.1	
160-22264-3	PZ-102R-SS	Total/NA	Water	415.1	
160-22264-4 - DL	PZ-103-SS	Total/NA	Water	415.1	
160-22264-5	PZ-113-SS	Total/NA	Water	415.1	
160-22264-6 - DL	PZ-113-AD	Total/NA	Water	415.1	
160-22264-7 - DL	PZ-113-AS	Total/NA	Water	415.1	
160-22264-8 - DL	PZ-112-AS	Total/NA	Water	415.1	

General Chemistry (Continued)

Analysis Batch: 311962 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22264-9 - DL	MW-12OU	Total/NA	Water	415.1	
160-22264-10 - DL	I-73	Total/NA	Water	415.1	
160-22264-11 - DL	PZ-203-SS	Total/NA	Water	415.1	
160-22264-12 - DL	PZ-302-AS	Total/NA	Water	415.1	
160-22264-13 - DL	PZ-302-AI	Total/NA	Water	415.1	
MB 160-311962/4	Method Blank	Total/NA	Water	415.1	
LCS 160-311962/5	Lab Control Sample	Total/NA	Water	415.1	
160-22211-D-7 MS	Matrix Spike	Total/NA	Water	415.1	
160-22264-7 MS - DL	PZ-113-AS	Total/NA	Water	415.1	
160-22211-D-7 DU	Duplicate	Total/NA	Water	415.1	

Analysis Batch: 312153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22264-12	PZ-302-AS	Total/NA	Water	353.1 Preserved	
160-22264-13	PZ-302-AI	Total/NA	Water	353.1 Preserved	
MB 160-312153/13	Method Blank	Total/NA	Water	353.1 Preserved	
LCS 160-312153/14	Lab Control Sample	Total/NA	Water	353.1 Preserved	
160-22264-12 MS	PZ-302-AS	Total/NA	Water	353.1 Preserved	
160-22264-12 DU	PZ-302-AS	Total/NA	Water	353.1 Preserved	

Analysis Batch: 312154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22264-12	PZ-302-AS	Total/NA	Water	350.1	
160-22264-13	PZ-302-AI	Total/NA	Water	350.1	
MB 160-312154/11	Method Blank	Total/NA	Water	350.1	
LCS 160-312154/12	Lab Control Sample	Total/NA	Water	350.1	
160-22264-12 MS	PZ-302-AS	Total/NA	Water	350.1	
160-22264-12 DU	PZ-302-AS	Total/NA	Water	350.1	

Rad

Prep Batch: 311550

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22264-2	PZ-101-SS	Total/NA	Water	LSC_Dist_Susp	
160-22264-3	PZ-102R-SS	Total/NA	Water	LSC_Dist_Susp	
160-22264-4	PZ-103-SS	Total/NA	Water	LSC_Dist_Susp	
160-22264-5	PZ-113-SS	Total/NA	Water	LSC_Dist_Susp	
160-22264-6	PZ-113-AD	Total/NA	Water	LSC_Dist_Susp	
160-22264-7	PZ-113-AS	Total/NA	Water	LSC_Dist_Susp	
160-22264-8	PZ-112-AS	Total/NA	Water	LSC_Dist_Susp	
160-22264-9	MW-12OU	Total/NA	Water	LSC_Dist_Susp	
160-22264-10	I-73	Total/NA	Water	LSC_Dist_Susp	
160-22264-11	PZ-203-SS	Total/NA	Water	LSC_Dist_Susp	
160-22264-12	PZ-302-AS	Total/NA	Water	LSC_Dist_Susp	
160-22264-13	PZ-302-AI	Total/NA	Water	LSC_Dist_Susp	
MB 160-311550/1-A	Method Blank	Total/NA	Water	LSC_Dist_Susp	
LCS 160-311550/2-A	Lab Control Sample	Total/NA	Water	LSC_Dist_Susp	
160-22264-3 MS	PZ-102R-SS	Total/NA	Water	LSC_Dist_Susp	
160-22264-2 DU	PZ-101-SS	Total/NA	Water	LSC_Dist_Susp	

Surrogate Summary

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22264-1

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

Matrix: Water **Prep Type: Total/NA**

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	12DCE	TOL
Lab Sample ID	Client Sample ID	(71-139)	(80-121)	(76-121)	(80-129)
160-22264-1	TRIP BLANK	99	101	100	100
160-22264-2	PZ-101-SS	100	106	107	97
160-22264-2 MS	PZ-101-SS	100	97	101	98
160-22264-2 MSD	PZ-101-SS	101	96	97	99
160-22264-3	PZ-102R-SS	101	108	112	99
160-22264-4	PZ-103-SS	97	101	102	94
160-22264-5	PZ-113-SS	97	105	107	96
160-22264-6	PZ-113-AD	100	110	113	99
160-22264-7	PZ-113-AS	98	110	107	98
160-22264-7 - DL	PZ-113-AS	99	97	82	99
160-22264-8	PZ-112-AS	99	105	110	111
160-22264-8	PZ-112-AS	95	105	108	101
160-22264-9	MW-12OU	88	123 X	118	95
160-22264-10	I-73	96	107	105	92
160-22264-11	PZ-203-SS	101	107	116	99
160-22264-12	PZ-302-AS	102	110	116	99
160-22264-13	PZ-302-AI	99	109	116	100
160-22310-A-6 MS	Matrix Spike	99	92	87	123
160-22310-A-6 MSD	Matrix Spike Duplicate	103	98	99	97
160-22310-A-11 MS	Matrix Spike	101	90	87	97
160-22310-A-11 MSD	Matrix Spike Duplicate	99	89	88	95
LCS 160-309165/4	Lab Control Sample	104	100	105	102
LCS 160-309388/4	Lab Control Sample	102	99	104	100
LCS 160-309845/3	Lab Control Sample	107	92	85	104
LCSD 160-309165/5	Lab Control Sample Dup	104	99	102	101
LCSD 160-309388/5	Lab Control Sample Dup	100	99	103	97
LCSD 160-309845/4	Lab Control Sample Dup	105	88	79	104
MB 160-309165/7	Method Blank	99	103	107	98
MB 160-309388/7	Method Blank	97	100	105	101
MB 160-309845/8	Method Blank	101	96	89	101

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

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TestAmerica Job ID: 160-22310-1
Client Project/Site: Groundwater -2nd Quarter Sampling Event

For:
Missouri Attorney General's Office
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Jefferson City, Missouri 65102

Attn: Brenna McDonald

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6/14/2017 5:39:47 AM

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LINKS

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This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 160-22310-1

Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

Client: Missouri Attorney General's Office

Project: Groundwater - 2nd Quarter 2017 Sampling Event

Report Number: 160-22310-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica St. Louis attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results for Chemistry analyses are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header. All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy unless requested as wet weight by the client.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 05/12/2017; the samples arrived in good condition, properly preserved and on ice. The temperatures of the 2 coolers at receipt time were 5.4º C and 7.5º C.

VOLATILE ORGANIC COMPOUNDS (GC MS)

Samples TRIP BLANK (160-22310-1), S-5 (160-22310-2), I-4 (160-22310-3), D-3 (160-22310-4), PZ-204A-SS (160-22310-5), PZ-204-SS (160-22310-6), LCS-5A (160-22310-7), LR-100 (160-22310-8), PZ-206-SS (160-22310-9), PZ-207-AS (160-22310-10) and S-53 (160-22310-11) were analyzed for volatile organic compounds (GC MS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 05/18/2017 and 05/22/2017.

The continuing calibration verification (CCV) associated with batch 160-309388 recovered above the upper control limit for Methyl bromide, Methyl chloride, Vinyl chloride and Trichlorofluoromethane. The samples associated with this CCV were non-detects for the affected analytes; therefore, the data have been reported. (CCVIS 160-309388/3)

The following compounds did not meet the minimum relative response factor limits in the continuing calibration verification (CCV) associated with batch 160-309388: Acetone and 2-Butanone (MEK). A low-level LOQV was analyzed at the reporting limit (5ug/L) and the affected analytes were detected. Target analytes recovering above the reporting limit will be qualified and reported. (CCVIS 160-309388/3)

Job ID: 160-22310-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 160-309388 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control samples' (LCS/LCSD) recoveries were within acceptance limits. (160-22310-A-6 MS)

The following volatile samples in analytical batch 160-309845 were analyzed with significant headspace in the sample vial: D-3 (160-22310-4), PZ-204A-SS (160-22310-5), LCS-5A (160-22310-7) and PZ-207-AS (160-22310-10). Significant headspace is defined as a bubble greater than 6 mm in diameter.

The continuing calibration verification (CCV) associated with batch 160-309845 recovered outside acceptance criteria, low biased, for Trichlorofluoromethane. A reporting limit (RL) standard was analyzed, and the target analyte was detected. Since the associated samples were non-detect for this analyte, the data have been reported. (CCVIS 160-309845/2)

The following compounds did not meet the minimum relative response factor limits in the continuing calibration verification (CCV) associated with batch 160-309845: Acetone and 2-Butanone (MEK). A low-level LOQV was analyzed at the reporting limit (5ug/L) and the affected analytes were detected. Target analytes recovering above the reporting limit will be qualified and reported. (CCVIS 160-309845/2)

According to the COC, the following samples in batch 160-309845 were presumed to be preserved to a pH < 2: S-5 (160-22310-2), I-4 (160-22310-3), D-3 (160-22310-4), PZ-204A-SS (160-22310-5) and LCS-5A (160-22310-7). Due to the potential loss of volatile constituents, VOA vials are not checked for pH preservation until the time of analysis. Sample pH was not less than 2. Samples were analyzed outside the 7 day, unpreserved, holding time.

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

TOTAL METALS (ICP)

Samples S-5 (160-22310-2), I-4 (160-22310-3), D-3 (160-22310-4), PZ-204A-SS (160-22310-5), PZ-204-SS (160-22310-6), LCS-5A (160-22310-7), LR-100 (160-22310-8), PZ-206-SS (160-22310-9), PZ-207-AS (160-22310-10) and S-53 (160-22310-11) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 05/15/2017 and analyzed on 05/18/2017, 06/05/2017 and 06/06/2017.

Due to the high concentration of Boron, Calcium, and Phosphorous, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 160-308584 and analytical batch 160-309593 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria. (160-22310-I-2-B MS ^) and (160-22310-I-2-C MSD)

The following samples in preparation batch 160-308584 and analytical batch 160-309593 were diluted to bring the concentration of target analytes within the calibration range: S-5 (160-22310-2), I-4 (160-22310-3), D-3 (160-22310-4), PZ-204A-SS (160-22310-5), PZ-204-SS (160-22310-6), LCS-5A (160-22310-7), LR-100 (160-22310-8), PZ-206-SS (160-22310-9), PZ-207-AS (160-22310-10), S-53 (160-22310-11), (160-22310-I-2-B MS ^), (160-22310-I-2-C MSD) and (160-22310-I-2-A SD ^). Elevated reporting limits (RLs) are provided.

The following samples in preparation batch 160-308584 and analytical batch 160-312045 were diluted to bring the concentration of target analytes within the calibration range: I-4 (160-22310-3), D-3 (160-22310-4), PZ-204A-SS (160-22310-5), PZ-204-SS (160-22310-6), LCS-5A (160-22310-7), LR-100 (160-22310-8), PZ-206-SS (160-22310-9), PZ-207-AS (160-22310-10) and S-53 (160-22310-11). Elevated reporting limits (RLs) are provided.

The following samples in preparation batch 160-308584 and analytical batch 160-312132 were diluted to bring the concentration of target analytes within the calibration range: S-5 (160-22310-2), (160-22310-I-2-B MS ^), (160-22310-I-2-C MSD) and (160-22310-I-2-A SD ^). Elevated reporting limits (RLs) are provided.

The native sample, matrix spike, and matrix spike duplicate (MS/MSD) associated with preparation batch 160-308584 and analytical batch 160-309593 were performed at the same dilution. Due to the additional level of analyte present in the spiked samples, the concentration of sodium in the MS/MSD was above the instrument calibration range. The data have been reported and qualified.(160-22310-I-2-B MS ^)

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

Job ID: 160-22310-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

TOTAL MERCURY

Samples S-5 (160-22310-2), I-4 (160-22310-3), D-3 (160-22310-4), PZ-204A-SS (160-22310-5), PZ-204-SS (160-22310-6), LCS-5A (160-22310-7), LR-100 (160-22310-8), PZ-206-SS (160-22310-9), PZ-207-AS (160-22310-10) and S-53 (160-22310-11) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 06/05/2017.

The samples associated with preparation batch 160-311953 were observed after adding potassium permanganate for 15 minutes and the samples did retained color; however, other samples prepped in the same run had reduced. Due to this issue, an equivalent portion of permanganate solution was added to all QC and client samples in the same run. S-5 (160-22310-2), I-4 (160-22310-3), D-3 (160-22310-4), PZ-204A-SS (160-22310-5), PZ-204-SS (160-22310-6), LCS-5A (160-22310-7), LR-100 (160-22310-8), PZ-206-SS (160-22310-9), PZ-207-AS (160-22310-10), S-53 (160-22310-11), (160-22310-I-3 MS) and (160-22310-I-3 MSD)

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

TOTAL DISSOLVED SOLIDS

Samples S-5 (160-22310-2), I-4 (160-22310-3), D-3 (160-22310-4), PZ-204A-SS (160-22310-5), PZ-204-SS (160-22310-6), LCS-5A (160-22310-7), LR-100 (160-22310-8), PZ-206-SS (160-22310-9), PZ-207-AS (160-22310-10) and S-53 (160-22310-11) were analyzed for total dissolved solids in accordance with EPA Method 160.1. The samples were analyzed on 05/18/2017.

The sample volume was reduced for the following samples in TDS batch 160-309293 to meet the method requirement of less than 200 mg dried weight remaining after evaporation. S-5 (160-22310-2), I-4 (160-22310-3), D-3 (160-22310-4), PZ-204A-SS (160-22310-5), LCS-5A (160-22310-7), LR-100 (160-22310-8), PZ-207-AS (160-22310-10) and (160-22310-F-2 DU) Elevated reporting limits (RLs) are provided.

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

ANIONS, ION CHROMATOGRAPHY

Samples S-5 (160-22310-2), I-4 (160-22310-3), D-3 (160-22310-4), PZ-204A-SS (160-22310-5), PZ-204-SS (160-22310-6), LCS-5A (160-22310-7), LR-100 (160-22310-8), PZ-206-SS (160-22310-9), PZ-207-AS (160-22310-10) and S-53 (160-22310-11) were analyzed for Anions, Ion Chromatography in accordance with EPA Method 300.0. The samples were analyzed on 06/02/2017, 06/08/2017 and 06/09/2017.

The following samples in Anion batch 160-312598 were analyzed at dilution to start due to high sample conductivities that made undiluted analysis inadvisable: S-5 (160-22310-2), I-4 (160-22310-3), D-3 (160-22310-4), PZ-204A-SS (160-22310-5), LCS-5A (160-22310-7), LR-100 (160-22310-8), PZ-206-SS (160-22310-9) and PZ-207-AS (160-22310-10). As a result, some samples have anion results that are non-detect (ND) (below the adjusted RL) at the initial dilution.

The following samples in Anion batch 160-312598 were diluted to bring the concentrations of target analytes within the calibration range: S-5 (160-22310-2), I-4 (160-22310-3), D-3 (160-22310-4), PZ-204A-SS (160-22310-5), PZ-204-SS (160-22310-6), LCS-5A (160-22310-7), LR-100 (160-22310-8), PZ-206-SS (160-22310-9), PZ-207-AS (160-22310-10) and S-53 (160-22310-11). Elevated reporting limits (RLs) are provided.

The following samples in Anion batch 160-312598 were analyzed in this batch within 28 day holding time, but required re-analysis for Chloride at further dilution, which then injected out of hold: S-5 (160-22310-2), D-3 (160-22310-4), PZ-204A-SS (160-22310-5) and LCS-5A (160-22310-7). The sample was analyzed approximately 1 day outside of holding time, and is within two times hold.

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

AMMONIA

Samples S-5 (160-22310-2), I-4 (160-22310-3), D-3 (160-22310-4), PZ-204A-SS (160-22310-5), PZ-204-SS (160-22310-6), LCS-5A (160-22310-7), LR-100 (160-22310-8), PZ-206-SS (160-22310-9), PZ-207-AS (160-22310-10) and S-53 (160-22310-11) were analyzed for ammonia in accordance with EPA Method 350.1. The samples were analyzed on 06/06/2017.

The following samples in Ammonia analytical batch 160-312154 were diluted to bring the concentrations of the target analyte within the calibration range: S-5 (160-22310-2), I-4 (160-22310-3), D-3 (160-22310-4), LCS-5A (160-22310-7), LR-100 (160-22310-8) and PZ-207-AS (160-22310-10). Elevated reporting limits (RLs) are provided.

Job ID: 160-22310-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

The following matrix spike (MS) recovery for Ammonia analytical batch 160-312154 was outside control limits: (160-22264-D-12 MS). Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

NITROGEN, NITRATE-NITRITE

Samples S-5 (160-22310-2), I-4 (160-22310-3), D-3 (160-22310-4), PZ-204A-SS (160-22310-5), PZ-204-SS (160-22310-6), LCS-5A (160-22310-7), LR-100 (160-22310-8), PZ-206-SS (160-22310-9), PZ-207-AS (160-22310-10) and S-53 (160-22310-11) were analyzed for Nitrogen, Nitrate-Nitrite in accordance with Method 353.1 Preserved. The samples were analyzed on 06/06/2017.

Nitrate Nitrite as N in analytical batch 160-312153 was detected in method blank MB 160-312153/13 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

The following matrix spike (MS) recoveries for Nitrate-Nitrite analytical batch 160-312153 were outside control limits: (160-22264-D-12 MS) and (160-22310-D-9 MS). Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits, as well as the historical poor performance of matrix spikes from this client.

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

TOTAL PHOSPHORUS

Samples S-5 (160-22310-2), I-4 (160-22310-3), D-3 (160-22310-4), PZ-204A-SS (160-22310-5), PZ-204-SS (160-22310-6), LCS-5A (160-22310-7), LR-100 (160-22310-8), PZ-206-SS (160-22310-9), PZ-207-AS (160-22310-10) and S-53 (160-22310-11) were analyzed for total phosphorus in accordance with EPA Method 365.2. The samples were prepared on 05/30/2017 and 06/06/2017 and analyzed on 06/02/2017 and 06/07/2017.

The following samples from Total Phosphorous preparation batch 160-311189 and analytical batch 160-311607 were analyzed at dilution to bring the concentration of target analytes within the calibration range: S-5 (160-22310-2), (160-22352-I-3-A), (160-22352-I-3-B DU) and (160-22352-I-3-C MS). Elevated reporting limits (RLs) are provided.

The following samples in Total Phosphorous preparation batch 160-312061 and analytical batch 160-312159 were diluted to bring the concentrations of the target analyte within the calibration range: S-53 (160-22310-11). 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.

CHEMICAL OXYGEN DEMAND

Samples S-5 (160-22310-2), I-4 (160-22310-3), D-3 (160-22310-4), PZ-204A-SS (160-22310-5), PZ-204-SS (160-22310-6), LCS-5A (160-22310-7), LR-100 (160-22310-8), PZ-206-SS (160-22310-9), PZ-207-AS (160-22310-10) and S-53 (160-22310-11) were analyzed for chemical oxygen demand in accordance with EPA Method 410.4. The samples were prepared and analyzed on 06/05/2017.

The following samples in COD batch 160-311982 were diluted to bring the concentrations of the target analyte within the calibration range: S-5 (160-22310-2), I-4 (160-22310-3), D-3 (160-22310-4), PZ-204A-SS (160-22310-5) and LCS-5A (160-22310-7). Elevated reporting limits (RLs) are provided.

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

TOTAL ORGANIC CARBON

Samples S-5 (160-22310-2), I-4 (160-22310-3), D-3 (160-22310-4), PZ-204A-SS (160-22310-5), PZ-204-SS (160-22310-6), LCS-5A (160-22310-7), LR-100 (160-22310-8), PZ-206-SS (160-22310-9), PZ-207-AS (160-22310-10) and S-53 (160-22310-11) were analyzed for total organic carbon in accordance with EPA Method 415.1. The samples were analyzed on 06/03/2017 and 06/04/2017.

The following samples in TOC batch 160-311962 were analyzed at dilution due to suspected and/or confirmed high concentrations of the target analyte: S-5 (160-22310-2), I-4 (160-22310-3), D-3 (160-22310-4), PZ-204A-SS (160-22310-5), LCS-5A (160-22310-7), LR-100 (160-22310-8), PZ-206-SS (160-22310-9) and PZ-207-AS (160-22310-10). Elevated reporting limits (RLs) are provided.

Job ID: 160-22310-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

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

TRITIUM, TOTAL (LSC)

Samples S-5 (160-22310-2), I-4 (160-22310-3), D-3 (160-22310-4), PZ-204A-SS (160-22310-5), PZ-204-SS (160-22310-6), LCS-5A (160-22310-7), LR-100 (160-22310-8), PZ-206-SS (160-22310-9), PZ-207-AS (160-22310-10) and S-53 (160-22310-11) were analyzed for Tritium, Total (LSC) in accordance with USEPA 906.0. The samples were prepared on 06/05/2017 and analyzed on 06/06/2017.

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

13715 Rider Trail North
Earth City, MO 63045
Phone (314) 298-8566 Fax (314) 298-8757

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information
Client Contact: Brenna McDonald
Company: Missouri Attorney General's Office
Address: PO BOX 899
City: Jefferson City
State, Zip: MO, 65102
Phone: 573-368-2163(Tel)
Email: brenna.mcdonald@dnr.mo.gov
Project Name: Groundwater - May 2017 Sampling Event
Site: Bridgeton Landfill

Sampler: Brenna McDonald
Phone: 573-453-4329
Lab PM: Lambert-Sykes, Chenise Y
E-Mail: chenise.lambert-sykes@testamericainc.com
Carrier Tracking No(s):
COC No: 160-5226-2622.1
Page: Page 1 of 1
Job #:

Due Date Requested:
TAT Requested (days): Standard
PO #: Purchase Order not required
WO #:
Project #: 16006007
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)	906.0 - Tritium	350.1, 353.1_Pres, 365.2, 410.4_LL	160.1_Calcd, 300_ORGFM_28D	6010C - Metals	415.1 - TOC	8260C - (MOD) OLM 4.2	Total Number of containers
			Preservation Code:				N	S	N	D	S	A	
Triplblank	5-11-17	0800	G	Water								✓	
S-5	5-11-17	1026	G	Water			✓	✓	✓	✓	✓	✓	
I-4	5-11-17	0931	G	Water			✓	✓	✓	✓	✓	✓	
D-3	5-11-17	1136	G	Water			✓	✓	✓	✓	✓	✓	
PZ-204A-SS	5-11-17	1342	G	Water			✓	✓	✓	✓	✓	✓	
PZ-204-SS	5-11-17	1438	G	W			✓	✓	✓	✓	✓	✓	
LCS-5A	5-11-17	1650	G	W			✓	✓	✓	✓	✓	✓	
LR-100	5-12-17	0840	G	W			✓	✓	✓	✓	✓	✓	
PZ-206-SS	5-12-17	0953	G	W			✓	✓	✓	✓	✓	✓	
PZ-207-AS	5-12-17	1107	G	W			✓	✓	✓	✓	✓	✓	
S-53	5-12-17	1140	G	W			✓	✓	✓	✓	✓	✓	

Special Instructions/Note:

160-22310 Chain of Custody

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
Brenna McDonald	5/12/17 1300			5-12-17 1310	TAL STL
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company
Relinquished by:	Date/Time:	Company	Received by:	Date/Time:	Company

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

Login Sample Receipt Checklist

Client: Missouri Attorney General's Office

Job Number: 160-22310-1

Login Number: 22310
List Number: 1
Creator: Clarke, Jill C

List Source: TestAmerica St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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 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").	False	
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
H	Sample was prepped or analyzed beyond the specified holding time
F1	MS and/or MSD Recovery is outside acceptance limits.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
H	Sample was prepped or analyzed beyond the specified holding time
E	Result exceeded calibration range.

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.
E	Result exceeded calibration range.

General Chemistry

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

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)

Glossary (Continued)

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

Method Summary

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22310-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL SL
300.0	Anions, Ion Chromatography	MCAWW	TAL SL
6010C	Metals (ICP)	SW846	TAL SL
7470A	Mercury (CVAA)	SW846	TAL SL
160.1	Solids, Total Dissolved (TDS)	MCAWW	TAL SL
350.1	Nitrogen, Ammonia	MCAWW	TAL SL
353.1 Preserved	Nitrogen, Nitrate-Nitrite	MCAWW	TAL SL
410.4	COD	MCAWW	TAL SL
415.1	TOC	MCAWW	TAL SL
906.0	Tritium, Total (LSC)	EPA	TAL SL

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.

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

Laboratory References:

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22310-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-22310-1	TRIP BLANK	Water	05/11/17 08:00	05/12/17 13:00
160-22310-2	S-5	Water	05/11/17 10:26	05/12/17 13:00
160-22310-3	I-4	Water	05/11/17 09:31	05/12/17 13:00
160-22310-4	D-3	Water	05/11/17 11:36	05/12/17 13:00
160-22310-5	PZ-204A-SS	Water	05/11/17 13:42	05/12/17 13:00
160-22310-6	PZ-204-SS	Water	05/11/17 14:38	05/12/17 13:00
160-22310-7	LCS-5A	Water	05/11/17 16:50	05/12/17 13:00
160-22310-8	LR-100	Water	05/12/17 08:40	05/12/17 13:00
160-22310-9	PZ-206-SS	Water	05/12/17 09:53	05/12/17 13:00
160-22310-10	PZ-207-AS	Water	05/12/17 11:07	05/12/17 13:00
160-22310-11	S-53	Water	05/12/17 11:40	05/12/17 13:00

Detection Summary

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22310-1

Client Sample ID: TRIP BLANK — Lab Sample ID: 160-22310-1

No Detections.

Client Sample ID: S-5 — Lab Sample ID: 160-22310-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	23	H	20	6.7	ug/L	1		8260C	Total/NA
Benzene	2.5	J H	5.0	0.25	ug/L	1		8260C	Total/NA
Chlorobenzene	1.8	J H	5.0	0.38	ug/L	1		8260C	Total/NA
1,2-Dichlorobenzene	0.61	J H	5.0	0.28	ug/L	1		8260C	Total/NA
1,4-Dichlorobenzene	3.9	J H	5.0	0.35	ug/L	1		8260C	Total/NA
Toluene	1.1	J H	5.0	1.0	ug/L	1		8260C	Total/NA
Xylenes, Total	1.1	J H	10	0.85	ug/L	1		8260C	Total/NA
Iodide	0.15	J	1.0	0.10	mg/L	1		300.0	Total/NA
Sulfate - DL	19		1.0	0.10	mg/L	2		300.0	Total/NA
Chloride - DL2	310	H	20	2.0	mg/L	100		300.0	Total/NA
Iron	37000		500	150	ug/L	5		6010C	Total/NA
Arsenic	41	J	50	20	ug/L	5		6010C	Total/NA
Barium	780		500	150	ug/L	10		6010C	Total/NA
Boron	2800		500	130	ug/L	5		6010C	Total/NA
CaHard	210000		12000	3700	ug/L	5		6010C	Total/NA
Calcium	84000		5000	1500	ug/L	5		6010C	Total/NA
Lead	27	J	50	15	ug/L	5		6010C	Total/NA
Magnesium	72		5.0	1.5	mg/L	5		6010C	Total/NA
Manganese	600		75	20	ug/L	5		6010C	Total/NA
MgHard	290000		21000	6200	ug/L	5		6010C	Total/NA
Nickel	0.099	J	0.20	0.050	mg/L	5		6010C	Total/NA
Phosphorus	6800		1300	380	ug/L	5		6010C	Total/NA
Sodium	480000		5000	1500	ug/L	5		6010C	Total/NA
Total Hardness	510000		33000	9900	ug/L	5		6010C	Total/NA
Zinc	87	J	100	30	ug/L	5		6010C	Total/NA
Total Dissolved Solids (TDS)	2200		25	17	mg/L	1		160.1	Total/NA
Chemical Oxygen Demand - DL	330		25	12	mg/L	5		410.4	Total/NA
Total Organic Carbon - DL	77		20	14	mg/L	20		415.1	Total/NA
Ammonia - DL2	170000		25000	11000	ug/L	500		350.1	Total/NA

Client Sample ID: I-4 — Lab Sample ID: 160-22310-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	8.6	J H	20	6.7	ug/L	1		8260C	Total/NA
Benzene	4.4	J H	5.0	0.25	ug/L	1		8260C	Total/NA
Chlorobenzene	11	H	5.0	0.38	ug/L	1		8260C	Total/NA
1,2-Dichlorobenzene	2.0	J H	5.0	0.28	ug/L	1		8260C	Total/NA
1,4-Dichlorobenzene	6.1	H	5.0	0.35	ug/L	1		8260C	Total/NA
Toluene	3.3	J H	5.0	1.0	ug/L	1		8260C	Total/NA
Xylenes, Total	9.9	J H	10	0.85	ug/L	1		8260C	Total/NA
Iodide	0.18	J	1.0	0.10	mg/L	1		300.0	Total/NA
Sulfate - DL	0.69	J	1.0	0.10	mg/L	2		300.0	Total/NA
Chloride - DL2	210		10	1.0	mg/L	50		300.0	Total/NA
Iron	30000		500	150	ug/L	5		6010C	Total/NA
Arsenic	22	J	50	20	ug/L	5		6010C	Total/NA
Barium	840		250	75	ug/L	5		6010C	Total/NA
Boron	1700		500	130	ug/L	5		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: I-4 (Continued) — Lab Sample ID: 160-22310-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
CaHard	310000		12000	3700	ug/L	5		6010C	Total/NA
Calcium	130000		5000	1500	ug/L	5		6010C	Total/NA
Lead	17	J	50	15	ug/L	5		6010C	Total/NA
Magnesium	59		5.0	1.5	mg/L	5		6010C	Total/NA
Manganese	470		75	20	ug/L	5		6010C	Total/NA
MgHard	240000		21000	6200	ug/L	5		6010C	Total/NA
Phosphorus	3400		1300	380	ug/L	5		6010C	Total/NA
Sodium	280000		5000	1500	ug/L	5		6010C	Total/NA
Total Hardness	560000		33000	9900	ug/L	5		6010C	Total/NA
Total Dissolved Solids (TDS)	1600		10	7.0	mg/L	1		160.1	Total/NA
Chemical Oxygen Demand - DL	190		10	4.8	mg/L	2		410.4	Total/NA
Total Organic Carbon - DL	51		20	14	mg/L	20		415.1	Total/NA
Ammonia - DL2	140000		25000	11000	ug/L	500		350.1	Total/NA

Client Sample ID: D-3 — Lab Sample ID: 160-22310-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.7	J H	5.0	0.25	ug/L	1		8260C	Total/NA
Chlorobenzene	5.0	H	5.0	0.38	ug/L	1		8260C	Total/NA
Iodide	0.44	J	1.0	0.10	mg/L	1		300.0	Total/NA
Fluoride - DL	0.11	J	0.20	0.052	mg/L	2		300.0	Total/NA
Sulfate - DL	0.58	J	1.0	0.10	mg/L	2		300.0	Total/NA
Chloride - DL2	580	H	40	4.0	mg/L	200		300.0	Total/NA
Iron	28000		500	150	ug/L	5		6010C	Total/NA
Barium	2700		250	75	ug/L	5		6010C	Total/NA
Boron	1500		500	130	ug/L	5		6010C	Total/NA
CaHard	660000		12000	3700	ug/L	5		6010C	Total/NA
Calcium	260000		5000	1500	ug/L	5		6010C	Total/NA
Lead	15	J	50	15	ug/L	5		6010C	Total/NA
Magnesium	68		5.0	1.5	mg/L	5		6010C	Total/NA
Manganese	330		75	20	ug/L	5		6010C	Total/NA
MgHard	280000		21000	6200	ug/L	5		6010C	Total/NA
Phosphorus	820	J	1300	380	ug/L	5		6010C	Total/NA
Sodium	390000		5000	1500	ug/L	5		6010C	Total/NA
Total Hardness	940000		33000	9900	ug/L	5		6010C	Total/NA
Total Dissolved Solids (TDS)	2200		10	7.0	mg/L	1		160.1	Total/NA
Ammonia - DL	53000		2500	1100	ug/L	50		350.1	Total/NA
Chemical Oxygen Demand - DL	140		10	4.8	mg/L	2		410.4	Total/NA
Total Organic Carbon - DL	49		10	7.2	mg/L	10		415.1	Total/NA

Client Sample ID: PZ-204A-SS — Lab Sample ID: 160-22310-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	16	J H	20	6.7	ug/L	1		8260C	Total/NA
Benzene	1.5	J H	5.0	0.25	ug/L	1		8260C	Total/NA
Iodide	2.9		1.0	0.10	mg/L	1		300.0	Total/NA
Fluoride - DL	0.17	J	0.20	0.052	mg/L	2		300.0	Total/NA
Sulfate - DL2	350		25	2.5	mg/L	50		300.0	Total/NA
Chloride - DL3	2800	H	200	20	mg/L	1000		300.0	Total/NA
Iron	26000		500	150	ug/L	5		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PZ-204A-SS (Continued) — Lab Sample ID: 160-22310-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Arsenic	49	J	50	20	ug/L	5		6010C	Total/NA
Barium	950		500	150	ug/L	10		6010C	Total/NA
Boron	300	J	500	130	ug/L	5		6010C	Total/NA
CaHard	2000000		25000	7500	ug/L	10		6010C	Total/NA
Calcium	790000		10000	3000	ug/L	10		6010C	Total/NA
Chromium	18	J	50	15	ug/L	5		6010C	Total/NA
Lead	30	J	50	15	ug/L	5		6010C	Total/NA
Magnesium	310		5.0	1.5	mg/L	5		6010C	Total/NA
Manganese	3300		75	20	ug/L	5		6010C	Total/NA
MgHard	1300000		21000	6200	ug/L	5		6010C	Total/NA
Nickel	0.24		0.20	0.050	mg/L	5		6010C	Total/NA
Phosphorus	630	J	1300	380	ug/L	5		6010C	Total/NA
Sodium	900000		10000	3000	ug/L	10		6010C	Total/NA
Total Hardness	3400000		33000	9900	ug/L	5		6010C	Total/NA
Zinc	40	J	100	30	ug/L	5		6010C	Total/NA
Total Dissolved Solids (TDS)	7600		50	35	mg/L	1		160.1	Total/NA
Ammonia	990		50	22	ug/L	1		350.1	Total/NA
Chemical Oxygen Demand - DL	880		50	24	mg/L	10		410.4	Total/NA
Total Organic Carbon - DL	250		50	36	mg/L	50		415.1	Total/NA

Client Sample ID: PZ-204-SS — Lab Sample ID: 160-22310-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride	3.3		0.20	0.020	mg/L	1		300.0	Total/NA
Fluoride	0.44		0.10	0.026	mg/L	1		300.0	Total/NA
Sulfate - DL	20		13	1.3	mg/L	25		300.0	Total/NA
Iron	570		500	150	ug/L	5		6010C	Total/NA
Barium	190	J	250	75	ug/L	5		6010C	Total/NA
CaHard	180000		12000	3700	ug/L	5		6010C	Total/NA
Calcium	71000		5000	1500	ug/L	5		6010C	Total/NA
Magnesium	47		5.0	1.5	mg/L	5		6010C	Total/NA
Manganese	52	J	75	20	ug/L	5		6010C	Total/NA
MgHard	190000		21000	6200	ug/L	5		6010C	Total/NA
Sodium	27000		5000	1500	ug/L	5		6010C	Total/NA
Total Hardness	370000		33000	9900	ug/L	5		6010C	Total/NA
Total Dissolved Solids (TDS)	430		5.0	3.5	mg/L	1		160.1	Total/NA
Ammonia	57		50	22	ug/L	1		350.1	Total/NA
Total Organic Carbon	1.8		1.0	0.72	mg/L	1		415.1	Total/NA

Client Sample ID: LCS-5A — Lab Sample ID: 160-22310-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	10	J H	20	6.7	ug/L	1		8260C	Total/NA
Benzene	42	H	5.0	0.25	ug/L	1		8260C	Total/NA
Chlorobenzene	81	H	5.0	0.38	ug/L	1		8260C	Total/NA
cis-1,2-Dichloroethene	1.2	J H	5.0	0.16	ug/L	1		8260C	Total/NA
1,2-Dichlorobenzene	0.58	J H	5.0	0.28	ug/L	1		8260C	Total/NA
1,4-Dichlorobenzene	13	H	5.0	0.35	ug/L	1		8260C	Total/NA
Ethylbenzene	13	H	5.0	0.30	ug/L	1		8260C	Total/NA
Toluene	19	H	5.0	1.0	ug/L	1		8260C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: LCS-5A (Continued)

Lab Sample ID: 160-22310-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Xylenes, Total	43	H	10	0.85	ug/L	1		8260C	Total/NA
Iodide	2.0		1.0	0.10	mg/L	1		300.0	Total/NA
Fluoride - DL	0.78		0.20	0.052	mg/L	2		300.0	Total/NA
Sulfate - DL	0.92	J	1.0	0.10	mg/L	2		300.0	Total/NA
Chloride - DL2	940	H	100	10	mg/L	500		300.0	Total/NA
Iron	7600		500	150	ug/L	5		6010C	Total/NA
Arsenic	23	J	50	20	ug/L	5		6010C	Total/NA
Barium	1500		500	150	ug/L	10		6010C	Total/NA
Boron	3000		500	130	ug/L	5		6010C	Total/NA
CaHard	500000		12000	3700	ug/L	5		6010C	Total/NA
Calcium	200000		5000	1500	ug/L	5		6010C	Total/NA
Chromium	19	J	50	15	ug/L	5		6010C	Total/NA
Copper	54	J	130	35	ug/L	5		6010C	Total/NA
Lead	28	J	50	15	ug/L	5		6010C	Total/NA
Magnesium	85		5.0	1.5	mg/L	5		6010C	Total/NA
Manganese	250		75	20	ug/L	5		6010C	Total/NA
MgHard	350000		21000	6200	ug/L	5		6010C	Total/NA
Nickel	0.050	J	0.20	0.050	mg/L	5		6010C	Total/NA
Phosphorus	1300		1300	380	ug/L	5		6010C	Total/NA
Sodium	620000		10000	3000	ug/L	10		6010C	Total/NA
Total Hardness	840000		33000	9900	ug/L	5		6010C	Total/NA
Zinc	48	J	100	30	ug/L	5		6010C	Total/NA
Total Dissolved Solids (TDS)	2900		25	17	mg/L	1		160.1	Total/NA
Chemical Oxygen Demand - DL	540		50	24	mg/L	10		410.4	Total/NA
Total Organic Carbon - DL	120		50	36	mg/L	50		415.1	Total/NA
Ammonia - DL2	220000		25000	11000	ug/L	500		350.1	Total/NA

Client Sample ID: LR-100

Lab Sample ID: 160-22310-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	7.3		5.0	0.25	ug/L	1		8260C	Total/NA
Chlorobenzene	44		5.0	0.38	ug/L	1		8260C	Total/NA
1,4-Dichlorobenzene	6.0		5.0	0.35	ug/L	1		8260C	Total/NA
Iodide	0.28	J	1.0	0.10	mg/L	1		300.0	Total/NA
Fluoride - DL	0.094	J	0.20	0.052	mg/L	2		300.0	Total/NA
Sulfate - DL	0.39	J	1.0	0.10	mg/L	2		300.0	Total/NA
Chloride - DL2	120		10	1.0	mg/L	50		300.0	Total/NA
Iron	21000		500	150	ug/L	5		6010C	Total/NA
Barium	450		250	75	ug/L	5		6010C	Total/NA
Boron	1600		500	130	ug/L	5		6010C	Total/NA
CaHard	320000		12000	3700	ug/L	5		6010C	Total/NA
Calcium	130000		5000	1500	ug/L	5		6010C	Total/NA
Magnesium	61		5.0	1.5	mg/L	5		6010C	Total/NA
Manganese	190		75	20	ug/L	5		6010C	Total/NA
MgHard	250000		21000	6200	ug/L	5		6010C	Total/NA
Phosphorus	410	J	1300	380	ug/L	5		6010C	Total/NA
Sodium	140000		5000	1500	ug/L	5		6010C	Total/NA
Total Hardness	570000		33000	9900	ug/L	5		6010C	Total/NA
Total Dissolved Solids (TDS)	1000		10	7.0	mg/L	1		160.1	Total/NA
Chemical Oxygen Demand	89		5.0	2.4	mg/L	1		410.4	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: LR-100 (Continued) — Lab Sample ID: 160-22310-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon - DL	26		10	7.2	mg/L	10		415.1	Total/NA
Ammonia - DL2	93000		5000	2200	ug/L	100		350.1	Total/NA

Client Sample ID: PZ-206-SS — Lab Sample ID: 160-22310-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iodide	0.30	J	1.0	0.10	mg/L	1		300.0	Total/NA
Fluoride - DL	1.4		0.20	0.052	mg/L	2		300.0	Total/NA
Chloride - DL2	130		10	1.0	mg/L	50		300.0	Total/NA
Sulfate - DL2	44		25	2.5	mg/L	50		300.0	Total/NA
Iron	3000		500	150	ug/L	5		6010C	Total/NA
Barium	89	J	250	75	ug/L	5		6010C	Total/NA
Boron	180	J	500	130	ug/L	5		6010C	Total/NA
CaHard	380000		12000	3700	ug/L	5		6010C	Total/NA
Calcium	150000		5000	1500	ug/L	5		6010C	Total/NA
Magnesium	85		5.0	1.5	mg/L	5		6010C	Total/NA
Manganese	53	J	75	20	ug/L	5		6010C	Total/NA
MgHard	350000		21000	6200	ug/L	5		6010C	Total/NA
Sodium	26000		5000	1500	ug/L	5		6010C	Total/NA
Total Hardness	730000		33000	9900	ug/L	5		6010C	Total/NA
Total Dissolved Solids (TDS)	870		5.0	3.5	mg/L	1		160.1	Total/NA
Ammonia	260		50	22	ug/L	1		350.1	Total/NA
Chemical Oxygen Demand	76		5.0	2.4	mg/L	1		410.4	Total/NA
Total Organic Carbon - DL	21		10	7.2	mg/L	10		415.1	Total/NA

Client Sample ID: PZ-207-AS — Lab Sample ID: 160-22310-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	1.3	J	5.0	0.25	ug/L	1		8260C	Total/NA
Chlorobenzene	14		5.0	0.38	ug/L	1		8260C	Total/NA
1,2-Dichlorobenzene	0.51	J	5.0	0.28	ug/L	1		8260C	Total/NA
1,4-Dichlorobenzene	3.3	J	5.0	0.35	ug/L	1		8260C	Total/NA
Iodide	0.12	J	1.0	0.10	mg/L	1		300.0	Total/NA
Fluoride - DL	0.079	J	0.20	0.052	mg/L	2		300.0	Total/NA
Sulfate - DL	0.55	J	1.0	0.10	mg/L	2		300.0	Total/NA
Chloride - DL2	170		10	1.0	mg/L	50		300.0	Total/NA
Iron	20000		500	150	ug/L	5		6010C	Total/NA
Arsenic	25	J	50	20	ug/L	5		6010C	Total/NA
Barium	620		250	75	ug/L	5		6010C	Total/NA
Boron	810		500	130	ug/L	5		6010C	Total/NA
CaHard	260000		12000	3700	ug/L	5		6010C	Total/NA
Calcium	110000		5000	1500	ug/L	5		6010C	Total/NA
Lead	16	J	50	15	ug/L	5		6010C	Total/NA
Magnesium	58		5.0	1.5	mg/L	5		6010C	Total/NA
Manganese	80		75	20	ug/L	5		6010C	Total/NA
MgHard	240000		21000	6200	ug/L	5		6010C	Total/NA
Phosphorus	830	J	1300	380	ug/L	5		6010C	Total/NA
Sodium	170000		5000	1500	ug/L	5		6010C	Total/NA
Total Hardness	500000		33000	9900	ug/L	5		6010C	Total/NA
Total Dissolved Solids (TDS)	1000		10	7.0	mg/L	1		160.1	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PZ-207-AS (Continued)

Lab Sample ID: 160-22310-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chemical Oxygen Demand	89		5.0	2.4	mg/L	1		410.4	Total/NA
Ammonia - DL	98000		2500	1100	ug/L	50		350.1	Total/NA
Total Organic Carbon - DL	25		10	7.2	mg/L	10		415.1	Total/NA

Client Sample ID: S-53

Lab Sample ID: 160-22310-11

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	4.8	J	5.0	0.25	ug/L	1		8260C	Total/NA
Chlorobenzene	0.57	J	5.0	0.38	ug/L	1		8260C	Total/NA
Fluoride	0.18		0.10	0.026	mg/L	1		300.0	Total/NA
Chloride - DL	30		5.0	0.50	mg/L	25		300.0	Total/NA
Sulfate - DL	66		13	1.3	mg/L	25		300.0	Total/NA
Iron	1900		500	150	ug/L	5		6010C	Total/NA
Barium	260		250	75	ug/L	5		6010C	Total/NA
CaHard	380000		12000	3700	ug/L	5		6010C	Total/NA
Calcium	150000		5000	1500	ug/L	5		6010C	Total/NA
Chromium	53		50	15	ug/L	5		6010C	Total/NA
Lead	19	J	50	15	ug/L	5		6010C	Total/NA
Magnesium	41		5.0	1.5	mg/L	5		6010C	Total/NA
Manganese	1700		75	20	ug/L	5		6010C	Total/NA
MgHard	170000		21000	6200	ug/L	5		6010C	Total/NA
Sodium	30000		5000	1500	ug/L	5		6010C	Total/NA
Total Hardness	550000		33000	9900	ug/L	5		6010C	Total/NA
Total Dissolved Solids (TDS)	590		5.0	3.5	mg/L	1		160.1	Total/NA
Ammonia	350		50	22	ug/L	1		350.1	Total/NA
Total Organic Carbon	3.0		1.0	0.72	mg/L	1		415.1	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TRIP BLANK

Date Collected: 05/11/17 08:00
Date Received: 05/12/17 13:00

Lab Sample ID: 160-22310-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/18/17 21:53	1
Acrylonitrile	ND		50	1.7	ug/L			05/18/17 21:53	1
Benzene	ND		5.0	0.25	ug/L			05/18/17 21:53	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/18/17 21:53	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/18/17 21:53	1
Bromoform	ND		5.0	0.37	ug/L			05/18/17 21:53	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/18/17 21:53	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/18/17 21:53	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/18/17 21:53	1
Chloroethane	ND		10	0.38	ug/L			05/18/17 21:53	1
Chloroform	ND		5.0	0.15	ug/L			05/18/17 21:53	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/18/17 21:53	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/18/17 21:53	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/18/17 21:53	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/18/17 21:53	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/18/17 21:53	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/18/17 21:53	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/18/17 21:53	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/18/17 21:53	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/18/17 21:53	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/18/17 21:53	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/18/17 21:53	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/18/17 21:53	1
2-Hexanone	ND		20	0.59	ug/L			05/18/17 21:53	1
Methyl bromide	ND		10	0.40	ug/L			05/18/17 21:53	1
Methyl chloride	ND		10	0.55	ug/L			05/18/17 21:53	1
Methylene bromide	ND		5.0	0.41	ug/L			05/18/17 21:53	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/18/17 21:53	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/18/17 21:53	1
Methyl iodide	ND		5.0	1.5	ug/L			05/18/17 21:53	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/18/17 21:53	1
Styrene	ND		5.0	0.35	ug/L			05/18/17 21:53	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/18/17 21:53	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/18/17 21:53	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/18/17 21:53	1
Toluene	ND		5.0	1.0	ug/L			05/18/17 21:53	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/18/17 21:53	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/18/17 21:53	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/18/17 21:53	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/18/17 21:53	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/18/17 21:53	1
Trichloroethene	ND		5.0	0.29	ug/L			05/18/17 21:53	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/18/17 21:53	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/18/17 21:53	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/18/17 21:53	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/18/17 21:53	1
Xylenes, Total	ND		10	0.85	ug/L			05/18/17 21:53	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 160-22310-1

Date Collected: 05/11/17 08:00
Matrix: Water
Date Received: 05/12/17 13:00

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*71 - 139*		*05/18/17 21:53*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 121*		*05/18/17 21:53*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*76 - 121*		*05/18/17 21:53*	*1*
Toluene-d8 (Surr)	*99*		*80 - 129*		*05/18/17 21:53*	*1*

Client Sample ID: S-5

Lab Sample ID: 160-22310-2

Date Collected: 05/11/17 10:26
Matrix: Water
Date Received: 05/12/17 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**23**	**H**	20	6.7	ug/L			05/22/17 20:37	1
Acrylonitrile	ND	H	50	1.7	ug/L			05/22/17 20:37	1
Benzene	**2.5**	**J H**	5.0	0.25	ug/L			05/22/17 20:37	1
Bromochloromethane	ND	H	5.0	0.55	ug/L			05/22/17 20:37	1
Bromodichloromethane	ND	H	5.0	0.25	ug/L			05/22/17 20:37	1
Bromoform	ND	H	5.0	0.37	ug/L			05/22/17 20:37	1
Carbon disulfide	ND	H	5.0	0.37	ug/L			05/22/17 20:37	1
Carbon tetrachloride	ND	H	5.0	0.36	ug/L			05/22/17 20:37	1
Chlorobenzene	**1.8**	**J H**	5.0	0.38	ug/L			05/22/17 20:37	1
Chloroethane	ND	H	10	0.38	ug/L			05/22/17 20:37	1
Chloroform	ND	H	5.0	0.15	ug/L			05/22/17 20:37	1
cis-1,2-Dichloroethene	ND	H	5.0	0.16	ug/L			05/22/17 20:37	1
cis-1,3-Dichloropropene	ND	H	5.0	0.34	ug/L			05/22/17 20:37	1
Dibromochloromethane	ND	H	5.0	0.33	ug/L			05/22/17 20:37	1
1,2-Dibromo-3-Chloropropane	ND	H	10	1.2	ug/L			05/22/17 20:37	1
1,2-Dibromoethane (EDB)	ND	H	5.0	0.44	ug/L			05/22/17 20:37	1
1,2-Dichlorobenzene	**0.61**	**J H**	5.0	0.28	ug/L			05/22/17 20:37	1
1,4-Dichlorobenzene	**3.9**	**J H**	5.0	0.35	ug/L			05/22/17 20:37	1
1,1-Dichloroethane	ND	H	5.0	0.39	ug/L			05/22/17 20:37	1
1,2-Dichloroethane	ND	H	5.0	0.37	ug/L			05/22/17 20:37	1
1,1-Dichloroethene	ND	H	5.0	0.37	ug/L			05/22/17 20:37	1
1,2-Dichloropropane	ND	H	5.0	0.32	ug/L			05/22/17 20:37	1
Ethylbenzene	ND	H	5.0	0.30	ug/L			05/22/17 20:37	1
2-Hexanone	ND	H	20	0.59	ug/L			05/22/17 20:37	1
Methyl bromide	ND	H	10	0.40	ug/L			05/22/17 20:37	1
Methyl chloride	ND	H	10	0.55	ug/L			05/22/17 20:37	1
Methylene bromide	ND	H	5.0	0.41	ug/L			05/22/17 20:37	1
Methylene Chloride	ND	H	5.0	1.7	ug/L			05/22/17 20:37	1
Methyl Ethyl Ketone	ND	H	20	0.39	ug/L			05/22/17 20:37	1
Methyl iodide	ND	H	5.0	1.5	ug/L			05/22/17 20:37	1
4-Methyl-2-pentanone (MIBK)	ND	H	20	0.33	ug/L			05/22/17 20:37	1
Styrene	ND	H	5.0	0.35	ug/L			05/22/17 20:37	1
1,1,1,2-Tetrachloroethane	ND	H	5.0	0.25	ug/L			05/22/17 20:37	1
1,1,2,2-Tetrachloroethane	ND	H	5.0	0.43	ug/L			05/22/17 20:37	1
Tetrachloroethene	ND	H	5.0	0.28	ug/L			05/22/17 20:37	1
Toluene	**1.1**	**J H**	5.0	1.0	ug/L			05/22/17 20:37	1
trans-1,4-Dichloro-2-butene	ND	H	10	0.95	ug/L			05/22/17 20:37	1
trans-1,2-Dichloroethene	ND	H	5.0	0.18	ug/L			05/22/17 20:37	1
trans-1,3-Dichloropropene	ND	H	5.0	0.35	ug/L			05/22/17 20:37	1

Client Sample ID: S-5
Date Collected: 05/11/17 10:26
Date Received: 05/12/17 13:00

Lab Sample ID: 160-22310-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND	H	5.0	0.29	ug/L			05/22/17 20:37	1
1,1,2-Trichloroethane	ND	H	5.0	0.57	ug/L			05/22/17 20:37	1
Trichloroethene	ND	H	5.0	0.29	ug/L			05/22/17 20:37	1
Trichlorofluoromethane	ND	H	5.0	0.22	ug/L			05/22/17 20:37	1
1,2,3-Trichloropropane	ND	H	5.0	0.56	ug/L			05/22/17 20:37	1
Vinyl acetate	ND	H	5.0	0.61	ug/L			05/22/17 20:37	1
Vinyl chloride	ND	H	5.0	0.43	ug/L			05/22/17 20:37	1
Xylenes, Total	**1.1**	**J H**	10	0.85	ug/L			05/22/17 20:37	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*98*		*71 - 139*		*05/22/17 20:37*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 121*		*05/22/17 20:37*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*76 - 121*		*05/22/17 20:37*	*1*
Toluene-d8 (Surr)	*99*		*80 - 129*		*05/22/17 20:37*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	**0.15**	**J**	1.0	0.10	mg/L			06/02/17 04:47	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20	0.052	mg/L			06/08/17 16:03	2
Sulfate	**19**		1.0	0.10	mg/L			06/08/17 16:03	2

Method: 300.0 - Anions, Ion Chromatography - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**310**	**H**	20	2.0	mg/L			06/09/17 20:43	100

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		50	15	ug/L		05/15/17 15:37	05/18/17 19:15	5
Iron	**37000**		500	150	ug/L		05/15/17 15:37	05/18/17 19:15	5
Arsenic	**41**	**J**	50	20	ug/L		05/15/17 15:37	05/18/17 19:15	5
Barium	**780**		500	150	ug/L		05/15/17 15:37	06/06/17 12:03	10
Beryllium	ND		25	7.5	ug/L		05/15/17 15:37	05/18/17 19:15	5
Boron	**2800**		500	130	ug/L		05/15/17 15:37	05/18/17 19:15	5
Cadmium	ND		25	7.5	ug/L		05/15/17 15:37	05/18/17 19:15	5
CaHard	**210000**		12000	3700	ug/L		05/15/17 15:37	05/18/17 19:15	5
Calcium	**84000**		5000	1500	ug/L		05/15/17 15:37	05/18/17 19:15	5
Chromium	ND		50	15	ug/L		05/15/17 15:37	05/18/17 19:15	5
Cobalt	ND		250	75	ug/L		05/15/17 15:37	05/18/17 19:15	5
Copper	ND		130	35	ug/L		05/15/17 15:37	05/18/17 19:15	5
Lead	**27**	**J**	50	15	ug/L		05/15/17 15:37	05/18/17 19:15	5
Magnesium	**72**		5.0	1.5	mg/L		05/15/17 15:37	05/18/17 19:15	5
Manganese	**600**		75	20	ug/L		05/15/17 15:37	05/18/17 19:15	5
MgHard	**290000**		21000	6200	ug/L		05/15/17 15:37	05/18/17 19:15	5
Nickel	**0.099**	**J**	0.20	0.050	mg/L		05/15/17 15:37	05/18/17 19:15	5
Phosphorus	**6800**		1300	380	ug/L		05/15/17 15:37	05/18/17 19:15	5
Selenium	ND		75	40	ug/L		05/15/17 15:37	05/18/17 19:15	5
Silver	ND		50	15	ug/L		05/15/17 15:37	05/18/17 19:15	5
Sodium	**480000**		5000	1500	ug/L		05/15/17 15:37	05/18/17 19:15	5

Client Sample ID: S-5

Lab Sample ID: 160-22310-2
Date Collected: 05/11/17 10:26
Matrix: Water
Date Received: 05/12/17 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Thallium	ND		100	25	ug/L		05/15/17 15:37	05/18/17 19:15	5
Total Hardness	**510000**		33000	9900	ug/L		05/15/17 15:37	05/18/17 19:15	5
Vanadium	ND		250	130	ug/L		05/15/17 15:37	05/18/17 19:15	5
Zinc	**87**	**J**	100	30	ug/L		05/15/17 15:37	05/18/17 19:15	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		06/05/17 09:55	06/05/17 18:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**2200**		25	17	mg/L			05/18/17 08:23	1
Nitrate Nitrite as N	ND		50	22	ug/L			06/06/17 17:51	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	**330**		25	12	mg/L		06/05/17 08:39	06/05/17 12:27	5
Total Organic Carbon	**77**		20	14	mg/L			06/03/17 21:53	20

General Chemistry - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**170000**		25000	11000	ug/L			06/06/17 20:43	500

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	170	U	147	148	500	232	pCi/L	06/05/17 10:20	06/06/17 11:07	1

Client Sample ID: I-4

Lab Sample ID: 160-22310-3
Date Collected: 05/11/17 09:31
Matrix: Water
Date Received: 05/12/17 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**8.6**	**J H**	20	6.7	ug/L			05/22/17 21:02	1
Acrylonitrile	ND	H	50	1.7	ug/L			05/22/17 21:02	1
Benzene	**4.4**	**J H**	5.0	0.25	ug/L			05/22/17 21:02	1
Bromochloromethane	ND	H	5.0	0.55	ug/L			05/22/17 21:02	1
Bromodichloromethane	ND	H	5.0	0.25	ug/L			05/22/17 21:02	1
Bromoform	ND	H	5.0	0.37	ug/L			05/22/17 21:02	1
Carbon disulfide	ND	H	5.0	0.37	ug/L			05/22/17 21:02	1
Carbon tetrachloride	ND	H	5.0	0.36	ug/L			05/22/17 21:02	1
Chlorobenzene	**11**	**H**	5.0	0.38	ug/L			05/22/17 21:02	1
Chloroethane	ND	H	10	0.38	ug/L			05/22/17 21:02	1
Chloroform	ND	H	5.0	0.15	ug/L			05/22/17 21:02	1
cis-1,2-Dichloroethene	ND	H	5.0	0.16	ug/L			05/22/17 21:02	1
cis-1,3-Dichloropropene	ND	H	5.0	0.34	ug/L			05/22/17 21:02	1
Dibromochloromethane	ND	H	5.0	0.33	ug/L			05/22/17 21:02	1
1,2-Dibromo-3-Chloropropane	ND	H	10	1.2	ug/L			05/22/17 21:02	1
1,2-Dibromoethane (EDB)	ND	H	5.0	0.44	ug/L			05/22/17 21:02	1

Client Sample ID: I-4
Date Collected: 05/11/17 09:31
Date Received: 05/12/17 13:00

Lab Sample ID: 160-22310-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichlorobenzene	**2.0**	**J H**	5.0	0.28	ug/L			05/22/17 21:02	1
1,4-Dichlorobenzene	**6.1**	**H**	5.0	0.35	ug/L			05/22/17 21:02	1
1,1-Dichloroethane	ND	H	5.0	0.39	ug/L			05/22/17 21:02	1
1,2-Dichloroethane	ND	H	5.0	0.37	ug/L			05/22/17 21:02	1
1,1-Dichloroethene	ND	H	5.0	0.37	ug/L			05/22/17 21:02	1
1,2-Dichloropropane	ND	H	5.0	0.32	ug/L			05/22/17 21:02	1
Ethylbenzene	ND	H	5.0	0.30	ug/L			05/22/17 21:02	1
2-Hexanone	ND	H	20	0.59	ug/L			05/22/17 21:02	1
Methyl bromide	ND	H	10	0.40	ug/L			05/22/17 21:02	1
Methyl chloride	ND	H	10	0.55	ug/L			05/22/17 21:02	1
Methylene bromide	ND	H	5.0	0.41	ug/L			05/22/17 21:02	1
Methylene Chloride	ND	H	5.0	1.7	ug/L			05/22/17 21:02	1
Methyl Ethyl Ketone	ND	H	20	0.39	ug/L			05/22/17 21:02	1
Methyl iodide	ND	H	5.0	1.5	ug/L			05/22/17 21:02	1
4-Methyl-2-pentanone (MIBK)	ND	H	20	0.33	ug/L			05/22/17 21:02	1
Styrene	ND	H	5.0	0.35	ug/L			05/22/17 21:02	1
1,1,1,2-Tetrachloroethane	ND	H	5.0	0.25	ug/L			05/22/17 21:02	1
1,1,2,2-Tetrachloroethane	ND	H	5.0	0.43	ug/L			05/22/17 21:02	1
Tetrachloroethene	ND	H	5.0	0.28	ug/L			05/22/17 21:02	1
Toluene	**3.3**	**J H**	5.0	1.0	ug/L			05/22/17 21:02	1
trans-1,4-Dichloro-2-butene	ND	H	10	0.95	ug/L			05/22/17 21:02	1
trans-1,2-Dichloroethene	ND	H	5.0	0.18	ug/L			05/22/17 21:02	1
trans-1,3-Dichloropropene	ND	H	5.0	0.35	ug/L			05/22/17 21:02	1
1,1,1-Trichloroethane	ND	H	5.0	0.29	ug/L			05/22/17 21:02	1
1,1,2-Trichloroethane	ND	H	5.0	0.57	ug/L			05/22/17 21:02	1
Trichloroethene	ND	H	5.0	0.29	ug/L			05/22/17 21:02	1
Trichlorofluoromethane	ND	H	5.0	0.22	ug/L			05/22/17 21:02	1
1,2,3-Trichloropropane	ND	H	5.0	0.56	ug/L			05/22/17 21:02	1
Vinyl acetate	ND	H	5.0	0.61	ug/L			05/22/17 21:02	1
Vinyl chloride	ND	H	5.0	0.43	ug/L			05/22/17 21:02	1
Xylenes, Total	**9.9**	**J H**	10	0.85	ug/L			05/22/17 21:02	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*96*		*71 - 139*		*05/22/17 21:02*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 121*		*05/22/17 21:02*	*1*
1,2-Dichloroethane-d4 (Surr)	*88*		*76 - 121*		*05/22/17 21:02*	*1*
Toluene-d8 (Surr)	*95*		*80 - 129*		*05/22/17 21:02*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	**0.18**	**J**	1.0	0.10	mg/L			06/02/17 05:17	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.20	0.052	mg/L			06/08/17 16:34	2
Sulfate	**0.69**	**J**	1.0	0.10	mg/L			06/08/17 16:34	2

Method: 300.0 - Anions, Ion Chromatography - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**210**		10	1.0	mg/L			06/08/17 16:49	50

Client Sample ID: I-4
Date Collected: 05/11/17 09:31
Date Received: 05/12/17 13:00

Lab Sample ID: 160-22310-3
Matrix: Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		50	15	ug/L		05/15/17 15:37	05/18/17 19:33	5
Iron	**30000**		500	150	ug/L		05/15/17 15:37	05/18/17 19:33	5
Arsenic	**22**	**J**	50	20	ug/L		05/15/17 15:37	05/18/17 19:33	5
Barium	**840**		250	75	ug/L		05/15/17 15:37	06/05/17 19:46	5
Beryllium	ND		25	7.5	ug/L		05/15/17 15:37	05/18/17 19:33	5
Boron	**1700**		500	130	ug/L		05/15/17 15:37	05/18/17 19:33	5
Cadmium	ND		25	7.5	ug/L		05/15/17 15:37	05/18/17 19:33	5
CaHard	**310000**		12000	3700	ug/L		05/15/17 15:37	05/18/17 19:33	5
Calcium	**130000**		5000	1500	ug/L		05/15/17 15:37	05/18/17 19:33	5
Chromium	ND		50	15	ug/L		05/15/17 15:37	05/18/17 19:33	5
Cobalt	ND		250	75	ug/L		05/15/17 15:37	05/18/17 19:33	5
Copper	ND		130	35	ug/L		05/15/17 15:37	05/18/17 19:33	5
Lead	**17**	**J**	50	15	ug/L		05/15/17 15:37	05/18/17 19:33	5
Magnesium	**59**		5.0	1.5	mg/L		05/15/17 15:37	05/18/17 19:33	5
Manganese	**470**		75	20	ug/L		05/15/17 15:37	05/18/17 19:33	5
MgHard	**240000**		21000	6200	ug/L		05/15/17 15:37	05/18/17 19:33	5
Nickel	ND		0.20	0.050	mg/L		05/15/17 15:37	05/18/17 19:33	5
Phosphorus	**3400**		1300	380	ug/L		05/15/17 15:37	05/18/17 19:33	5
Selenium	ND		75	40	ug/L		05/15/17 15:37	05/18/17 19:33	5
Silver	ND		50	15	ug/L		05/15/17 15:37	05/18/17 19:33	5
Sodium	**280000**		5000	1500	ug/L		05/15/17 15:37	05/18/17 19:33	5
Thallium	ND		100	25	ug/L		05/15/17 15:37	05/18/17 19:33	5
Total Hardness	**560000**		33000	9900	ug/L		05/15/17 15:37	05/18/17 19:33	5
Vanadium	ND		250	130	ug/L		05/15/17 15:37	05/18/17 19:33	5
Zinc	ND		100	30	ug/L		05/15/17 15:37	05/18/17 19:33	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		06/05/17 09:55	06/05/17 18:43	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**1600**		10	7.0	mg/L			05/18/17 08:23	1
Nitrate Nitrite as N	ND		50	22	ug/L			06/06/17 18:00	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	**190**		10	4.8	mg/L		06/05/17 08:39	06/05/17 12:27	2
Total Organic Carbon	**51**		20	14	mg/L			06/03/17 22:31	20

General Chemistry - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**140000**		25000	11000	ug/L			06/06/17 20:45	500

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	136	U	144	144	500	233	pCi/L	06/05/17 10:20	06/06/17 11:30	1

Client Sample ID: D-3

Date Collected: 05/11/17 11:36
Date Received: 05/12/17 13:00

Lab Sample ID: 160-22310-4

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND	H	20	6.7	ug/L			05/22/17 21:26	1
Acrylonitrile	ND	H	50	1.7	ug/L			05/22/17 21:26	1
Benzene	**1.7**	**J H**	5.0	0.25	ug/L			05/22/17 21:26	1
Bromochloromethane	ND	H	5.0	0.55	ug/L			05/22/17 21:26	1
Bromodichloromethane	ND	H	5.0	0.25	ug/L			05/22/17 21:26	1
Bromoform	ND	H	5.0	0.37	ug/L			05/22/17 21:26	1
Carbon disulfide	ND	H	5.0	0.37	ug/L			05/22/17 21:26	1
Carbon tetrachloride	ND	H	5.0	0.36	ug/L			05/22/17 21:26	1
Chlorobenzene	**5.0**	**H**	5.0	0.38	ug/L			05/22/17 21:26	1
Chloroethane	ND	H	10	0.38	ug/L			05/22/17 21:26	1
Chloroform	ND	H	5.0	0.15	ug/L			05/22/17 21:26	1
cis-1,2-Dichloroethene	ND	H	5.0	0.16	ug/L			05/22/17 21:26	1
cis-1,3-Dichloropropene	ND	H	5.0	0.34	ug/L			05/22/17 21:26	1
Dibromochloromethane	ND	H	5.0	0.33	ug/L			05/22/17 21:26	1
1,2-Dibromo-3-Chloropropane	ND	H	10	1.2	ug/L			05/22/17 21:26	1
1,2-Dibromoethane (EDB)	ND	H	5.0	0.44	ug/L			05/22/17 21:26	1
1,2-Dichlorobenzene	ND	H	5.0	0.28	ug/L			05/22/17 21:26	1
1,4-Dichlorobenzene	ND	H	5.0	0.35	ug/L			05/22/17 21:26	1
1,1-Dichloroethane	ND	H	5.0	0.39	ug/L			05/22/17 21:26	1
1,2-Dichloroethane	ND	H	5.0	0.37	ug/L			05/22/17 21:26	1
1,1-Dichloroethene	ND	H	5.0	0.37	ug/L			05/22/17 21:26	1
1,2-Dichloropropane	ND	H	5.0	0.32	ug/L			05/22/17 21:26	1
Ethylbenzene	ND	H	5.0	0.30	ug/L			05/22/17 21:26	1
2-Hexanone	ND	H	20	0.59	ug/L			05/22/17 21:26	1
Methyl bromide	ND	H	10	0.40	ug/L			05/22/17 21:26	1
Methyl chloride	ND	H	10	0.55	ug/L			05/22/17 21:26	1
Methylene bromide	ND	H	5.0	0.41	ug/L			05/22/17 21:26	1
Methylene Chloride	ND	H	5.0	1.7	ug/L			05/22/17 21:26	1
Methyl Ethyl Ketone	ND	H	20	0.39	ug/L			05/22/17 21:26	1
Methyl iodide	ND	H	5.0	1.5	ug/L			05/22/17 21:26	1
4-Methyl-2-pentanone (MIBK)	ND	H	20	0.33	ug/L			05/22/17 21:26	1
Styrene	ND	H	5.0	0.35	ug/L			05/22/17 21:26	1
1,1,1,2-Tetrachloroethane	ND	H	5.0	0.25	ug/L			05/22/17 21:26	1
1,1,2,2-Tetrachloroethane	ND	H	5.0	0.43	ug/L			05/22/17 21:26	1
Tetrachloroethene	ND	H	5.0	0.28	ug/L			05/22/17 21:26	1
Toluene	ND	H	5.0	1.0	ug/L			05/22/17 21:26	1
trans-1,4-Dichloro-2-butene	ND	H	10	0.95	ug/L			05/22/17 21:26	1
trans-1,2-Dichloroethene	ND	H	5.0	0.18	ug/L			05/22/17 21:26	1
trans-1,3-Dichloropropene	ND	H	5.0	0.35	ug/L			05/22/17 21:26	1
1,1,1-Trichloroethane	ND	H	5.0	0.29	ug/L			05/22/17 21:26	1
1,1,2-Trichloroethane	ND	H	5.0	0.57	ug/L			05/22/17 21:26	1
Trichloroethene	ND	H	5.0	0.29	ug/L			05/22/17 21:26	1
Trichlorofluoromethane	ND	H	5.0	0.22	ug/L			05/22/17 21:26	1
1,2,3-Trichloropropane	ND	H	5.0	0.56	ug/L			05/22/17 21:26	1
Vinyl acetate	ND	H	5.0	0.61	ug/L			05/22/17 21:26	1
Vinyl chloride	ND	H	5.0	0.43	ug/L			05/22/17 21:26	1
Xylenes, Total	ND	H	10	0.85	ug/L			05/22/17 21:26	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*71 - 139*		*05/22/17 21:26*	*1*

Client Sample ID: D-3
Date Collected: 05/11/17 11:36
Date Received: 05/12/17 13:00

Lab Sample ID: 160-22310-4
Matrix: Water

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

Surrogate	%Recovery	Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*97*		*80 - 121*		*05/22/17 21:26*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*76 - 121*		*05/22/17 21:26*	*1*
Toluene-d8 (Surr)	*99*		*80 - 129*		*05/22/17 21:26*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	**0.44**	**J**	1.0	0.10	mg/L			06/02/17 05:48	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.11**	**J**	0.20	0.052	mg/L			06/08/17 17:05	2
Sulfate	**0.58**	**J**	1.0	0.10	mg/L			06/08/17 17:05	2

Method: 300.0 - Anions, Ion Chromatography - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**580**	**H**	40	4.0	mg/L			06/09/17 20:59	200

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		50	15	ug/L		05/15/17 15:37	05/18/17 19:51	5
Iron	**28000**		500	150	ug/L		05/15/17 15:37	05/18/17 19:51	5
Arsenic	ND		50	20	ug/L		05/15/17 15:37	05/18/17 19:51	5
Barium	**2700**		250	75	ug/L		05/15/17 15:37	06/05/17 19:51	5
Beryllium	ND		25	7.5	ug/L		05/15/17 15:37	05/18/17 19:51	5
Boron	**1500**		500	130	ug/L		05/15/17 15:37	05/18/17 19:51	5
Cadmium	ND		25	7.5	ug/L		05/15/17 15:37	05/18/17 19:51	5
CaHard	**660000**		12000	3700	ug/L		05/15/17 15:37	05/18/17 19:51	5
Calcium	**260000**		5000	1500	ug/L		05/15/17 15:37	05/18/17 19:51	5
Chromium	ND		50	15	ug/L		05/15/17 15:37	05/18/17 19:51	5
Cobalt	ND		250	75	ug/L		05/15/17 15:37	05/18/17 19:51	5
Copper	ND		130	35	ug/L		05/15/17 15:37	05/18/17 19:51	5
Lead	**15**	**J**	50	15	ug/L		05/15/17 15:37	05/18/17 19:51	5
Magnesium	**68**		5.0	1.5	mg/L		05/15/17 15:37	05/18/17 19:51	5
Manganese	**330**		75	20	ug/L		05/15/17 15:37	05/18/17 19:51	5
MgHard	**280000**		21000	6200	ug/L		05/15/17 15:37	05/18/17 19:51	5
Nickel	ND		0.20	0.050	mg/L		05/15/17 15:37	05/18/17 19:51	5
Phosphorus	**820**	**J**	1300	380	ug/L		05/15/17 15:37	05/18/17 19:51	5
Selenium	ND		75	40	ug/L		05/15/17 15:37	05/18/17 19:51	5
Silver	ND		50	15	ug/L		05/15/17 15:37	05/18/17 19:51	5
Sodium	**390000**		5000	1500	ug/L		05/15/17 15:37	05/18/17 19:51	5
Thallium	ND		100	25	ug/L		05/15/17 15:37	05/18/17 19:51	5
Total Hardness	**940000**		33000	9900	ug/L		05/15/17 15:37	05/18/17 19:51	5
Vanadium	ND		250	130	ug/L		05/15/17 15:37	05/18/17 19:51	5
Zinc	ND		100	30	ug/L		05/15/17 15:37	05/18/17 19:51	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		06/05/17 09:55	06/05/17 18:51	1

Client Sample ID: D-3

Date Collected: 05/11/17 11:36
Date Received: 05/12/17 13:00

Lab Sample ID: 160-22310-4
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	2200		10	7.0	mg/L			05/18/17 08:23	1
Nitrate Nitrite as N	ND		50	22	ug/L			06/06/17 18:03	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	53000		2500	1100	ug/L			06/06/17 17:20	50
Chemical Oxygen Demand	140		10	4.8	mg/L		06/05/17 08:39	06/05/17 12:27	2
Total Organic Carbon	49		10	7.2	mg/L			06/03/17 22:42	10

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	438		171	175	500	228	pCi/L	06/05/17 10:20	06/06/17 11:52	1

Client Sample ID: PZ-204A-SS

Date Collected: 05/11/17 13:42
Date Received: 05/12/17 13:00

Lab Sample ID: 160-22310-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	16	J H	20	6.7	ug/L			05/22/17 21:51	1
Acrylonitrile	ND	H	50	1.7	ug/L			05/22/17 21:51	1
Benzene	1.5	J H	5.0	0.25	ug/L			05/22/17 21:51	1
Bromochloromethane	ND	H	5.0	0.55	ug/L			05/22/17 21:51	1
Bromodichloromethane	ND	H	5.0	0.25	ug/L			05/22/17 21:51	1
Bromoform	ND	H	5.0	0.37	ug/L			05/22/17 21:51	1
Carbon disulfide	ND	H	5.0	0.37	ug/L			05/22/17 21:51	1
Carbon tetrachloride	ND	H	5.0	0.36	ug/L			05/22/17 21:51	1
Chlorobenzene	ND	H	5.0	0.38	ug/L			05/22/17 21:51	1
Chloroethane	ND	H	10	0.38	ug/L			05/22/17 21:51	1
Chloroform	ND	H	5.0	0.15	ug/L			05/22/17 21:51	1
cis-1,2-Dichloroethene	ND	H	5.0	0.16	ug/L			05/22/17 21:51	1
cis-1,3-Dichloropropene	ND	H	5.0	0.34	ug/L			05/22/17 21:51	1
Dibromochloromethane	ND	H	5.0	0.33	ug/L			05/22/17 21:51	1
1,2-Dibromo-3-Chloropropane	ND	H	10	1.2	ug/L			05/22/17 21:51	1
1,2-Dibromoethane (EDB)	ND	H	5.0	0.44	ug/L			05/22/17 21:51	1
1,2-Dichlorobenzene	ND	H	5.0	0.28	ug/L			05/22/17 21:51	1
1,4-Dichlorobenzene	ND	H	5.0	0.35	ug/L			05/22/17 21:51	1
1,1-Dichloroethane	ND	H	5.0	0.39	ug/L			05/22/17 21:51	1
1,2-Dichloroethane	ND	H	5.0	0.37	ug/L			05/22/17 21:51	1
1,1-Dichloroethene	ND	H	5.0	0.37	ug/L			05/22/17 21:51	1
1,2-Dichloropropane	ND	H	5.0	0.32	ug/L			05/22/17 21:51	1
Ethylbenzene	ND	H	5.0	0.30	ug/L			05/22/17 21:51	1
2-Hexanone	ND	H	20	0.59	ug/L			05/22/17 21:51	1
Methyl bromide	ND	H	10	0.40	ug/L			05/22/17 21:51	1
Methyl chloride	ND	H	10	0.55	ug/L			05/22/17 21:51	1
Methylene bromide	ND	H	5.0	0.41	ug/L			05/22/17 21:51	1
Methylene Chloride	ND	H	5.0	1.7	ug/L			05/22/17 21:51	1
Methyl Ethyl Ketone	ND	H	20	0.39	ug/L			05/22/17 21:51	1

Client Sample ID: PZ-204A-SS
Date Collected: 05/11/17 13:42
Date Received: 05/12/17 13:00

Lab Sample ID: 160-22310-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl iodide	ND	H	5.0	1.5	ug/L			05/22/17 21:51	1
4-Methyl-2-pentanone (MIBK)	ND	H	20	0.33	ug/L			05/22/17 21:51	1
Styrene	ND	H	5.0	0.35	ug/L			05/22/17 21:51	1
1,1,1,2-Tetrachloroethane	ND	H	5.0	0.25	ug/L			05/22/17 21:51	1
1,1,2,2-Tetrachloroethane	ND	H	5.0	0.43	ug/L			05/22/17 21:51	1
Tetrachloroethene	ND	H	5.0	0.28	ug/L			05/22/17 21:51	1
Toluene	ND	H	5.0	1.0	ug/L			05/22/17 21:51	1
trans-1,4-Dichloro-2-butene	ND	H	10	0.95	ug/L			05/22/17 21:51	1
trans-1,2-Dichloroethene	ND	H	5.0	0.18	ug/L			05/22/17 21:51	1
trans-1,3-Dichloropropene	ND	H	5.0	0.35	ug/L			05/22/17 21:51	1
1,1,1-Trichloroethane	ND	H	5.0	0.29	ug/L			05/22/17 21:51	1
1,1,2-Trichloroethane	ND	H	5.0	0.57	ug/L			05/22/17 21:51	1
Trichloroethene	ND	H	5.0	0.29	ug/L			05/22/17 21:51	1
Trichlorofluoromethane	ND	H	5.0	0.22	ug/L			05/22/17 21:51	1
1,2,3-Trichloropropane	ND	H	5.0	0.56	ug/L			05/22/17 21:51	1
Vinyl acetate	ND	H	5.0	0.61	ug/L			05/22/17 21:51	1
Vinyl chloride	ND	H	5.0	0.43	ug/L			05/22/17 21:51	1
Xylenes, Total	ND	H	10	0.85	ug/L			05/22/17 21:51	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*71 - 139*		*05/22/17 21:51*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 121*		*05/22/17 21:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*76 - 121*		*05/22/17 21:51*	*1*
Toluene-d8 (Surr)	*99*		*80 - 129*		*05/22/17 21:51*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	**2.9**		1.0	0.10	mg/L			06/02/17 06:19	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.17**	**J**	0.20	0.052	mg/L			06/08/17 18:06	2

Method: 300.0 - Anions, Ion Chromatography - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**350**		25	2.5	mg/L			06/08/17 18:22	50

Method: 300.0 - Anions, Ion Chromatography - DL3

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2800**	**H**	200	20	mg/L			06/09/17 21:14	1000

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		50	15	ug/L		05/15/17 15:37	05/18/17 19:56	5
Iron	**26000**		500	150	ug/L		05/15/17 15:37	05/18/17 19:56	5
Arsenic	**49**	**J**	50	20	ug/L		05/15/17 15:37	05/18/17 19:56	5
Barium	**950**		500	150	ug/L		05/15/17 15:37	06/05/17 19:55	10
Beryllium	ND		25	7.5	ug/L		05/15/17 15:37	05/18/17 19:56	5
Boron	**300**	**J**	500	130	ug/L		05/15/17 15:37	05/18/17 19:56	5
Cadmium	ND		25	7.5	ug/L		05/15/17 15:37	05/18/17 19:56	5
CaHard	**2000000**		25000	7500	ug/L		05/15/17 15:37	06/05/17 19:55	10

Client Sample ID: PZ-204A-SS

Date Collected: 05/11/17 13:42
Date Received: 05/12/17 13:00

Lab Sample ID: 160-22310-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Calcium	790000		10000	3000	ug/L		05/15/17 15:37	06/05/17 19:55	10
Chromium	18	J	50	15	ug/L		05/15/17 15:37	05/18/17 19:56	5
Cobalt	ND		250	75	ug/L		05/15/17 15:37	05/18/17 19:56	5
Copper	ND		130	35	ug/L		05/15/17 15:37	05/18/17 19:56	5
Lead	30	J	50	15	ug/L		05/15/17 15:37	05/18/17 19:56	5
Magnesium	310		5.0	1.5	mg/L		05/15/17 15:37	05/18/17 19:56	5
Manganese	3300		75	20	ug/L		05/15/17 15:37	05/18/17 19:56	5
MgHard	1300000		21000	6200	ug/L		05/15/17 15:37	05/18/17 19:56	5
Nickel	0.24		0.20	0.050	mg/L		05/15/17 15:37	05/18/17 19:56	5
Phosphorus	630	J	1300	380	ug/L		05/15/17 15:37	05/18/17 19:56	5
Selenium	ND		75	40	ug/L		05/15/17 15:37	05/18/17 19:56	5
Silver	ND		50	15	ug/L		05/15/17 15:37	05/18/17 19:56	5
Sodium	900000		10000	3000	ug/L		05/15/17 15:37	06/05/17 19:55	10
Thallium	ND		100	25	ug/L		05/15/17 15:37	05/18/17 19:56	5
Total Hardness	3400000		33000	9900	ug/L		05/15/17 15:37	05/18/17 19:56	5
Vanadium	ND		250	130	ug/L		05/15/17 15:37	05/18/17 19:56	5
Zinc	40	J	100	30	ug/L		05/15/17 15:37	05/18/17 19:56	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		06/05/17 09:55	06/05/17 18:53	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	7600		50	35	mg/L			05/18/17 08:23	1
Ammonia	990		50	22	ug/L			06/06/17 17:22	1
Nitrate Nitrite as N	ND		50	22	ug/L			06/06/17 18:06	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	880		50	24	mg/L		06/05/17 08:39	06/05/17 12:27	10
Total Organic Carbon	250		50	36	mg/L			06/03/17 22:56	50

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	29800		963	2790	500	233	pCi/L	06/05/17 10:20	06/06/17 12:15	1

Client Sample ID: PZ-204-SS

Date Collected: 05/11/17 14:38
Date Received: 05/12/17 13:00

Lab Sample ID: 160-22310-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/18/17 22:18	1
Acrylonitrile	ND		50	1.7	ug/L			05/18/17 22:18	1
Benzene	ND		5.0	0.25	ug/L			05/18/17 22:18	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/18/17 22:18	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/18/17 22:18	1
Bromoform	ND		5.0	0.37	ug/L			05/18/17 22:18	1

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22310-1

Client Sample ID: PZ-204-SS
Date Collected: 05/11/17 14:38
Date Received: 05/12/17 13:00

Lab Sample ID: 160-22310-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Carbon disulfide	ND		5.0	0.37	ug/L			05/18/17 22:18	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/18/17 22:18	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/18/17 22:18	1
Chloroethane	ND		10	0.38	ug/L			05/18/17 22:18	1
Chloroform	ND		5.0	0.15	ug/L			05/18/17 22:18	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/18/17 22:18	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/18/17 22:18	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/18/17 22:18	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/18/17 22:18	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/18/17 22:18	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/18/17 22:18	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/18/17 22:18	1
1,1-Dichloroethane	ND	F1	5.0	0.39	ug/L			05/18/17 22:18	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/18/17 22:18	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/18/17 22:18	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/18/17 22:18	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/18/17 22:18	1
2-Hexanone	ND		20	0.59	ug/L			05/18/17 22:18	1
Methyl bromide	ND		10	0.40	ug/L			05/18/17 22:18	1
Methyl chloride	ND		10	0.55	ug/L			05/18/17 22:18	1
Methylene bromide	ND		5.0	0.41	ug/L			05/18/17 22:18	1
Methylene Chloride	ND	F1	5.0	1.7	ug/L			05/18/17 22:18	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/18/17 22:18	1
Methyl iodide	ND		5.0	1.5	ug/L			05/18/17 22:18	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/18/17 22:18	1
Styrene	ND		5.0	0.35	ug/L			05/18/17 22:18	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/18/17 22:18	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/18/17 22:18	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/18/17 22:18	1
Toluene	ND		5.0	1.0	ug/L			05/18/17 22:18	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/18/17 22:18	1
trans-1,2-Dichloroethene	ND	F1	5.0	0.18	ug/L			05/18/17 22:18	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/18/17 22:18	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/18/17 22:18	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/18/17 22:18	1
Trichloroethene	ND		5.0	0.29	ug/L			05/18/17 22:18	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/18/17 22:18	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/18/17 22:18	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/18/17 22:18	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/18/17 22:18	1
Xylenes, Total	ND		10	0.85	ug/L			05/18/17 22:18	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*71 - 139*		*05/18/17 22:18*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 121*		*05/18/17 22:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*117*		*76 - 121*		*05/18/17 22:18*	*1*
Toluene-d8 (Surr)	*94*		*80 - 129*		*05/18/17 22:18*	*1*

Client Sample ID: PZ-204-SS

Date Collected: 05/11/17 14:38
Date Received: 05/12/17 13:00

Lab Sample ID: 160-22310-6

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**3.3**		0.20	0.020	mg/L			06/08/17 18:37	1
Fluoride	**0.44**		0.10	0.026	mg/L			06/08/17 18:37	1
Iodide	ND		1.0	0.10	mg/L			06/02/17 07:21	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	**20**		13	1.3	mg/L			06/08/17 18:53	25

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		50	15	ug/L		05/15/17 15:37	05/18/17 20:00	5
Iron	**570**		500	150	ug/L		05/15/17 15:37	05/18/17 20:00	5
Arsenic	ND		50	20	ug/L		05/15/17 15:37	05/18/17 20:00	5
Barium	**190**	**J**	250	75	ug/L		05/15/17 15:37	06/05/17 20:00	5
Beryllium	ND		25	7.5	ug/L		05/15/17 15:37	05/18/17 20:00	5
Boron	ND		500	130	ug/L		05/15/17 15:37	05/18/17 20:00	5
Cadmium	ND		25	7.5	ug/L		05/15/17 15:37	05/18/17 20:00	5
CaHard	**180000**		12000	3700	ug/L		05/15/17 15:37	05/18/17 20:00	5
Calcium	**71000**		5000	1500	ug/L		05/15/17 15:37	05/18/17 20:00	5
Chromium	ND		50	15	ug/L		05/15/17 15:37	05/18/17 20:00	5
Cobalt	ND		250	75	ug/L		05/15/17 15:37	05/18/17 20:00	5
Copper	ND		130	35	ug/L		05/15/17 15:37	05/18/17 20:00	5
Lead	ND		50	15	ug/L		05/15/17 15:37	05/18/17 20:00	5
Magnesium	**47**		5.0	1.5	mg/L		05/15/17 15:37	05/18/17 20:00	5
Manganese	**52**	**J**	75	20	ug/L		05/15/17 15:37	05/18/17 20:00	5
MgHard	**190000**		21000	6200	ug/L		05/15/17 15:37	05/18/17 20:00	5
Nickel	ND		0.20	0.050	mg/L		05/15/17 15:37	05/18/17 20:00	5
Phosphorus	ND		1300	380	ug/L		05/15/17 15:37	05/18/17 20:00	5
Selenium	ND		75	40	ug/L		05/15/17 15:37	05/18/17 20:00	5
Silver	ND		50	15	ug/L		05/15/17 15:37	05/18/17 20:00	5
Sodium	**27000**		5000	1500	ug/L		05/15/17 15:37	05/18/17 20:00	5
Thallium	ND		100	25	ug/L		05/15/17 15:37	05/18/17 20:00	5
Total Hardness	**370000**		33000	9900	ug/L		05/15/17 15:37	05/18/17 20:00	5
Vanadium	ND		250	130	ug/L		05/15/17 15:37	05/18/17 20:00	5
Zinc	ND		100	30	ug/L		05/15/17 15:37	05/18/17 20:00	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		06/05/17 09:55	06/05/17 18:55	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**430**		5.0	3.5	mg/L			05/18/17 08:23	1
Ammonia	**57**		50	22	ug/L			06/06/17 17:24	1
Nitrate Nitrite as N	ND		50	22	ug/L			06/06/17 18:09	1
Chemical Oxygen Demand	ND		5.0	2.4	mg/L		06/05/17 08:39	06/05/17 12:27	1
Total Organic Carbon	**1.8**		1.0	0.72	mg/L			06/03/17 23:10	1

Client Sample ID: PZ-204-SS

Lab Sample ID: 160-22310-6
Date Collected: 05/11/17 14:38
Matrix: Water
Date Received: 05/12/17 13:00

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-49.5	U	123	123	500	233	pCi/L	06/05/17 10:20	06/06/17 12:38	1

Client Sample ID: LCS-5A

Lab Sample ID: 160-22310-7
Date Collected: 05/11/17 16:50
Matrix: Water
Date Received: 05/12/17 13:00

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**10**	**J H**	20	6.7	ug/L			05/22/17 22:15	1
Acrylonitrile	ND	H	50	1.7	ug/L			05/22/17 22:15	1
Benzene	**42**	**H**	5.0	0.25	ug/L			05/22/17 22:15	1
Bromochloromethane	ND	H	5.0	0.55	ug/L			05/22/17 22:15	1
Bromodichloromethane	ND	H	5.0	0.25	ug/L			05/22/17 22:15	1
Bromoform	ND	H	5.0	0.37	ug/L			05/22/17 22:15	1
Carbon disulfide	ND	H	5.0	0.37	ug/L			05/22/17 22:15	1
Carbon tetrachloride	ND	H	5.0	0.36	ug/L			05/22/17 22:15	1
Chlorobenzene	**81**	**H**	5.0	0.38	ug/L			05/22/17 22:15	1
Chloroethane	ND	H	10	0.38	ug/L			05/22/17 22:15	1
Chloroform	ND	H	5.0	0.15	ug/L			05/22/17 22:15	1
cis-1,2-Dichloroethene	**1.2**	**J H**	5.0	0.16	ug/L			05/22/17 22:15	1
cis-1,3-Dichloropropene	ND	H	5.0	0.34	ug/L			05/22/17 22:15	1
Dibromochloromethane	ND	H	5.0	0.33	ug/L			05/22/17 22:15	1
1,2-Dibromo-3-Chloropropane	ND	H	10	1.2	ug/L			05/22/17 22:15	1
1,2-Dibromoethane (EDB)	ND	H	5.0	0.44	ug/L			05/22/17 22:15	1
1,2-Dichlorobenzene	**0.58**	**J H**	5.0	0.28	ug/L			05/22/17 22:15	1
1,4-Dichlorobenzene	**13**	**H**	5.0	0.35	ug/L			05/22/17 22:15	1
1,1-Dichloroethane	ND	H	5.0	0.39	ug/L			05/22/17 22:15	1
1,2-Dichloroethane	ND	H	5.0	0.37	ug/L			05/22/17 22:15	1
1,1-Dichloroethene	ND	H	5.0	0.37	ug/L			05/22/17 22:15	1
1,2-Dichloropropane	ND	H	5.0	0.32	ug/L			05/22/17 22:15	1
Ethylbenzene	**13**	**H**	5.0	0.30	ug/L			05/22/17 22:15	1
2-Hexanone	ND	H	20	0.59	ug/L			05/22/17 22:15	1
Methyl bromide	ND	H	10	0.40	ug/L			05/22/17 22:15	1
Methyl chloride	ND	H	10	0.55	ug/L			05/22/17 22:15	1
Methylene bromide	ND	H	5.0	0.41	ug/L			05/22/17 22:15	1
Methylene Chloride	ND	H	5.0	1.7	ug/L			05/22/17 22:15	1
Methyl Ethyl Ketone	ND	H	20	0.39	ug/L			05/22/17 22:15	1
Methyl iodide	ND	H	5.0	1.5	ug/L			05/22/17 22:15	1
4-Methyl-2-pentanone (MIBK)	ND	H	20	0.33	ug/L			05/22/17 22:15	1
Styrene	ND	H	5.0	0.35	ug/L			05/22/17 22:15	1
1,1,1,2-Tetrachloroethane	ND	H	5.0	0.25	ug/L			05/22/17 22:15	1
1,1,2,2-Tetrachloroethane	ND	H	5.0	0.43	ug/L			05/22/17 22:15	1
Tetrachloroethene	ND	H	5.0	0.28	ug/L			05/22/17 22:15	1
Toluene	**19**	**H**	5.0	1.0	ug/L			05/22/17 22:15	1
trans-1,4-Dichloro-2-butene	ND	H	10	0.95	ug/L			05/22/17 22:15	1
trans-1,2-Dichloroethene	ND	H	5.0	0.18	ug/L			05/22/17 22:15	1
trans-1,3-Dichloropropene	ND	H	5.0	0.35	ug/L			05/22/17 22:15	1
1,1,1-Trichloroethane	ND	H	5.0	0.29	ug/L			05/22/17 22:15	1

Client Sample ID: LCS-5A
Date Collected: 05/11/17 16:50
Date Received: 05/12/17 13:00

Lab Sample ID: 160-22310-7
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-Trichloroethane	ND	H	5.0	0.57	ug/L			05/22/17 22:15	1
Trichloroethene	ND	H	5.0	0.29	ug/L			05/22/17 22:15	1
Trichlorofluoromethane	ND	H	5.0	0.22	ug/L			05/22/17 22:15	1
1,2,3-Trichloropropane	ND	H	5.0	0.56	ug/L			05/22/17 22:15	1
Vinyl acetate	ND	H	5.0	0.61	ug/L			05/22/17 22:15	1
Vinyl chloride	ND	H	5.0	0.43	ug/L			05/22/17 22:15	1
Xylenes, Total	**43**	**H**	10	0.85	ug/L			05/22/17 22:15	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*71 - 139*		*05/22/17 22:15*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 121*		*05/22/17 22:15*	*1*
1,2-Dichloroethane-d4 (Surr)	*92*		*76 - 121*		*05/22/17 22:15*	*1*
Toluene-d8 (Surr)	*102*		*80 - 129*		*05/22/17 22:15*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	**2.0**		1.0	0.10	mg/L			06/02/17 08:53	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.78**		0.20	0.052	mg/L			06/08/17 20:10	2
Sulfate	**0.92**	**J**	1.0	0.10	mg/L			06/08/17 20:10	2

Method: 300.0 - Anions, Ion Chromatography - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**940**	**H**	100	10	mg/L			06/09/17 21:30	500

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		50	15	ug/L		05/15/17 15:37	05/18/17 20:05	5
Iron	**7600**		500	150	ug/L		05/15/17 15:37	05/18/17 20:05	5
Arsenic	**23**	**J**	50	20	ug/L		05/15/17 15:37	05/18/17 20:05	5
Barium	**1500**		500	150	ug/L		05/15/17 15:37	06/05/17 20:05	10
Beryllium	ND		25	7.5	ug/L		05/15/17 15:37	05/18/17 20:05	5
Boron	**3000**		500	130	ug/L		05/15/17 15:37	05/18/17 20:05	5
Cadmium	ND		25	7.5	ug/L		05/15/17 15:37	05/18/17 20:05	5
CaHard	**500000**		12000	3700	ug/L		05/15/17 15:37	05/18/17 20:05	5
Calcium	**200000**		5000	1500	ug/L		05/15/17 15:37	05/18/17 20:05	5
Chromium	**19**	**J**	50	15	ug/L		05/15/17 15:37	05/18/17 20:05	5
Cobalt	ND		250	75	ug/L		05/15/17 15:37	05/18/17 20:05	5
Copper	**54**	**J**	130	35	ug/L		05/15/17 15:37	05/18/17 20:05	5
Lead	**28**	**J**	50	15	ug/L		05/15/17 15:37	05/18/17 20:05	5
Magnesium	**85**		5.0	1.5	mg/L		05/15/17 15:37	05/18/17 20:05	5
Manganese	**250**		75	20	ug/L		05/15/17 15:37	05/18/17 20:05	5
MgHard	**350000**		21000	6200	ug/L		05/15/17 15:37	05/18/17 20:05	5
Nickel	**0.050**	**J**	0.20	0.050	mg/L		05/15/17 15:37	05/18/17 20:05	5
Phosphorus	**1300**		1300	380	ug/L		05/15/17 15:37	05/18/17 20:05	5
Selenium	ND		75	40	ug/L		05/15/17 15:37	05/18/17 20:05	5
Silver	ND		50	15	ug/L		05/15/17 15:37	05/18/17 20:05	5
Sodium	**620000**		10000	3000	ug/L		05/15/17 15:37	06/05/17 20:05	10
Thallium	ND		100	25	ug/L		05/15/17 15:37	05/18/17 20:05	5

Client Sample ID: LCS-5A

Date Collected: 05/11/17 16:50
Date Received: 05/12/17 13:00

Lab Sample ID: 160-22310-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	**840000**		33000	9900	ug/L		05/15/17 15:37	05/18/17 20:05	5
Vanadium	ND		250	130	ug/L		05/15/17 15:37	05/18/17 20:05	5
Zinc	**48**	**J**	100	30	ug/L		05/15/17 15:37	05/18/17 20:05	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		06/05/17 09:55	06/05/17 19:01	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**2900**		25	17	mg/L			05/18/17 08:23	1
Nitrate Nitrite as N	ND		50	22	ug/L			06/06/17 18:13	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	**540**		50	24	mg/L		06/05/17 08:39	06/05/17 12:27	10
Total Organic Carbon	**120**		50	36	mg/L			06/03/17 23:22	50

General Chemistry - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**220000**		25000	11000	ug/L			06/06/17 20:47	500

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	**7160**		502	805	500	248	pCi/L	06/05/17 10:20	06/06/17 13:00	1

Client Sample ID: LR-100

Date Collected: 05/12/17 08:40
Date Received: 05/12/17 13:00

Lab Sample ID: 160-22310-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/18/17 22:43	1
Acrylonitrile	ND		50	1.7	ug/L			05/18/17 22:43	1
Benzene	**7.3**		5.0	0.25	ug/L			05/18/17 22:43	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/18/17 22:43	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/18/17 22:43	1
Bromoform	ND		5.0	0.37	ug/L			05/18/17 22:43	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/18/17 22:43	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/18/17 22:43	1
Chlorobenzene	**44**		5.0	0.38	ug/L			05/18/17 22:43	1
Chloroethane	ND		10	0.38	ug/L			05/18/17 22:43	1
Chloroform	ND		5.0	0.15	ug/L			05/18/17 22:43	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/18/17 22:43	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/18/17 22:43	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/18/17 22:43	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/18/17 22:43	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/18/17 22:43	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/18/17 22:43	1

Client Sample ID: LR-100
Date Collected: 05/12/17 08:40
Date Received: 05/12/17 13:00

Lab Sample ID: 160-22310-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,4-Dichlorobenzene	6.0		5.0	0.35	ug/L			05/18/17 22:43	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/18/17 22:43	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/18/17 22:43	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/18/17 22:43	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/18/17 22:43	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/18/17 22:43	1
2-Hexanone	ND		20	0.59	ug/L			05/18/17 22:43	1
Methyl bromide	ND		10	0.40	ug/L			05/18/17 22:43	1
Methyl chloride	ND		10	0.55	ug/L			05/18/17 22:43	1
Methylene bromide	ND		5.0	0.41	ug/L			05/18/17 22:43	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/18/17 22:43	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/18/17 22:43	1
Methyl iodide	ND		5.0	1.5	ug/L			05/18/17 22:43	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/18/17 22:43	1
Styrene	ND		5.0	0.35	ug/L			05/18/17 22:43	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/18/17 22:43	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/18/17 22:43	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/18/17 22:43	1
Toluene	ND		5.0	1.0	ug/L			05/18/17 22:43	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/18/17 22:43	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/18/17 22:43	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/18/17 22:43	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/18/17 22:43	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/18/17 22:43	1
Trichloroethene	ND		5.0	0.29	ug/L			05/18/17 22:43	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/18/17 22:43	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/18/17 22:43	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/18/17 22:43	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/18/17 22:43	1
Xylenes, Total	ND		10	0.85	ug/L			05/18/17 22:43	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*71 - 139*		*05/18/17 22:43*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 121*		*05/18/17 22:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*109*		*76 - 121*		*05/18/17 22:43*	*1*
Toluene-d8 (Surr)	*98*		*80 - 129*		*05/18/17 22:43*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	0.28	J	1.0	0.10	mg/L			06/02/17 09:24	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	0.094	J	0.20	0.052	mg/L			06/08/17 21:11	2
Sulfate	0.39	J	1.0	0.10	mg/L			06/08/17 21:11	2

Method: 300.0 - Anions, Ion Chromatography - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	120		10	1.0	mg/L			06/08/17 21:27	50

Client Sample ID: LR-100
Date Collected: 05/12/17 08:40
Date Received: 05/12/17 13:00

Lab Sample ID: 160-22310-8
Matrix: Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		50	15	ug/L		05/15/17 15:37	05/18/17 20:10	5
Iron	**21000**		500	150	ug/L		05/15/17 15:37	05/18/17 20:10	5
Arsenic	ND		50	20	ug/L		05/15/17 15:37	05/18/17 20:10	5
Barium	**450**		250	75	ug/L		05/15/17 15:37	06/05/17 20:09	5
Beryllium	ND		25	7.5	ug/L		05/15/17 15:37	05/18/17 20:10	5
Boron	**1600**		500	130	ug/L		05/15/17 15:37	05/18/17 20:10	5
Cadmium	ND		25	7.5	ug/L		05/15/17 15:37	05/18/17 20:10	5
CaHard	**320000**		12000	3700	ug/L		05/15/17 15:37	05/18/17 20:10	5
Calcium	**130000**		5000	1500	ug/L		05/15/17 15:37	05/18/17 20:10	5
Chromium	ND		50	15	ug/L		05/15/17 15:37	05/18/17 20:10	5
Cobalt	ND		250	75	ug/L		05/15/17 15:37	05/18/17 20:10	5
Copper	ND		130	35	ug/L		05/15/17 15:37	05/18/17 20:10	5
Lead	ND		50	15	ug/L		05/15/17 15:37	05/18/17 20:10	5
Magnesium	**61**		5.0	1.5	mg/L		05/15/17 15:37	05/18/17 20:10	5
Manganese	**190**		75	20	ug/L		05/15/17 15:37	05/18/17 20:10	5
MgHard	**250000**		21000	6200	ug/L		05/15/17 15:37	05/18/17 20:10	5
Nickel	ND		0.20	0.050	mg/L		05/15/17 15:37	05/18/17 20:10	5
Phosphorus	**410**	**J**	1300	380	ug/L		05/15/17 15:37	05/18/17 20:10	5
Selenium	ND		75	40	ug/L		05/15/17 15:37	05/18/17 20:10	5
Silver	ND		50	15	ug/L		05/15/17 15:37	05/18/17 20:10	5
Sodium	**140000**		5000	1500	ug/L		05/15/17 15:37	05/18/17 20:10	5
Thallium	ND		100	25	ug/L		05/15/17 15:37	05/18/17 20:10	5
Total Hardness	**570000**		33000	9900	ug/L		05/15/17 15:37	05/18/17 20:10	5
Vanadium	ND		250	130	ug/L		05/15/17 15:37	05/18/17 20:10	5
Zinc	ND		100	30	ug/L		05/15/17 15:37	05/18/17 20:10	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		06/05/17 09:55	06/05/17 19:03	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**1000**		10	7.0	mg/L			05/18/17 08:23	1
Nitrate Nitrite as N	ND		50	22	ug/L			06/06/17 18:16	1
Chemical Oxygen Demand	**89**		5.0	2.4	mg/L		06/05/17 08:39	06/05/17 12:27	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**26**		10	7.2	mg/L			06/03/17 23:35	10

General Chemistry - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**93000**		5000	2200	ug/L			06/06/17 20:50	100

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	**263**		157	159	500	234	pCi/L	06/05/17 10:20	06/06/17 13:23	1

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22310-1

Client Sample ID: PZ-206-SS
Date Collected: 05/12/17 09:53
Date Received: 05/12/17 13:00

Lab Sample ID: 160-22310-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/18/17 23:07	1
Acrylonitrile	ND		50	1.7	ug/L			05/18/17 23:07	1
Benzene	ND		5.0	0.25	ug/L			05/18/17 23:07	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/18/17 23:07	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/18/17 23:07	1
Bromoform	ND		5.0	0.37	ug/L			05/18/17 23:07	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/18/17 23:07	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/18/17 23:07	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/18/17 23:07	1
Chloroethane	ND		10	0.38	ug/L			05/18/17 23:07	1
Chloroform	ND		5.0	0.15	ug/L			05/18/17 23:07	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/18/17 23:07	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/18/17 23:07	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/18/17 23:07	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/18/17 23:07	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/18/17 23:07	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/18/17 23:07	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/18/17 23:07	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/18/17 23:07	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/18/17 23:07	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/18/17 23:07	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/18/17 23:07	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/18/17 23:07	1
2-Hexanone	ND		20	0.59	ug/L			05/18/17 23:07	1
Methyl bromide	ND		10	0.40	ug/L			05/18/17 23:07	1
Methyl chloride	ND		10	0.55	ug/L			05/18/17 23:07	1
Methylene bromide	ND		5.0	0.41	ug/L			05/18/17 23:07	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/18/17 23:07	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/18/17 23:07	1
Methyl iodide	ND		5.0	1.5	ug/L			05/18/17 23:07	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/18/17 23:07	1
Styrene	ND		5.0	0.35	ug/L			05/18/17 23:07	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/18/17 23:07	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/18/17 23:07	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/18/17 23:07	1
Toluene	ND		5.0	1.0	ug/L			05/18/17 23:07	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/18/17 23:07	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/18/17 23:07	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/18/17 23:07	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/18/17 23:07	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/18/17 23:07	1
Trichloroethene	ND		5.0	0.29	ug/L			05/18/17 23:07	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/18/17 23:07	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/18/17 23:07	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/18/17 23:07	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/18/17 23:07	1
Xylenes, Total	ND		10	0.85	ug/L			05/18/17 23:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*110*		*71 - 139*		*05/18/17 23:07*	*1*

Client Sample ID: PZ-206-SS

Date Collected: 05/12/17 09:53
Date Received: 05/12/17 13:00

Lab Sample ID: 160-22310-9

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*111*		*80 - 121*		*05/18/17 23:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*112*		*76 - 121*		*05/18/17 23:07*	*1*
Toluene-d8 (Surr)	*97*		*80 - 129*		*05/18/17 23:07*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	**0.30**	**J**	1.0	0.10	mg/L			06/02/17 10:26	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**1.4**		0.20	0.052	mg/L			06/08/17 21:42	2

Method: 300.0 - Anions, Ion Chromatography - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**130**		10	1.0	mg/L			06/08/17 21:58	50
Sulfate	**44**		25	2.5	mg/L			06/08/17 21:58	50

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		50	15	ug/L		05/15/17 15:37	05/18/17 20:14	5
Iron	**3000**		500	150	ug/L		05/15/17 15:37	05/18/17 20:14	5
Arsenic	ND		50	20	ug/L		05/15/17 15:37	05/18/17 20:14	5
Barium	**89**	**J**	250	75	ug/L		05/15/17 15:37	06/05/17 20:14	5
Beryllium	ND		25	7.5	ug/L		05/15/17 15:37	05/18/17 20:14	5
Boron	**180**	**J**	500	130	ug/L		05/15/17 15:37	05/18/17 20:14	5
Cadmium	ND		25	7.5	ug/L		05/15/17 15:37	05/18/17 20:14	5
CaHard	**380000**		12000	3700	ug/L		05/15/17 15:37	05/18/17 20:14	5
Calcium	**150000**		5000	1500	ug/L		05/15/17 15:37	05/18/17 20:14	5
Chromium	ND		50	15	ug/L		05/15/17 15:37	05/18/17 20:14	5
Cobalt	ND		250	75	ug/L		05/15/17 15:37	05/18/17 20:14	5
Copper	ND		130	35	ug/L		05/15/17 15:37	05/18/17 20:14	5
Lead	ND		50	15	ug/L		05/15/17 15:37	05/18/17 20:14	5
Magnesium	**85**		5.0	1.5	mg/L		05/15/17 15:37	05/18/17 20:14	5
Manganese	**53**	**J**	75	20	ug/L		05/15/17 15:37	05/18/17 20:14	5
MgHard	**350000**		21000	6200	ug/L		05/15/17 15:37	05/18/17 20:14	5
Nickel	ND		0.20	0.050	mg/L		05/15/17 15:37	05/18/17 20:14	5
Phosphorus	ND		1300	380	ug/L		05/15/17 15:37	05/18/17 20:14	5
Selenium	ND		75	40	ug/L		05/15/17 15:37	05/18/17 20:14	5
Silver	ND		50	15	ug/L		05/15/17 15:37	05/18/17 20:14	5
Sodium	**26000**		5000	1500	ug/L		05/15/17 15:37	05/18/17 20:14	5
Thallium	ND		100	25	ug/L		05/15/17 15:37	05/18/17 20:14	5
Total Hardness	**730000**		33000	9900	ug/L		05/15/17 15:37	05/18/17 20:14	5
Vanadium	ND		250	130	ug/L		05/15/17 15:37	05/18/17 20:14	5
Zinc	ND		100	30	ug/L		05/15/17 15:37	05/18/17 20:14	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		06/05/17 09:55	06/05/17 19:05	1

Client Sample ID: PZ-206-SS

Date Collected: 05/12/17 09:53
Date Received: 05/12/17 13:00

Lab Sample ID: 160-22310-9
Matrix: Water

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**870**		5.0	3.5	mg/L			05/18/17 08:23	1
Ammonia	**260**		50	22	ug/L			06/06/17 17:36	1
Nitrate Nitrite as N	ND	F1	50	22	ug/L			06/06/17 18:19	1
Chemical Oxygen Demand	**76**		5.0	2.4	mg/L		06/05/17 08:39	06/05/17 12:27	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**21**		10	7.2	mg/L			06/03/17 23:54	10

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	**1420**		246	276	500	235	pCi/L	06/05/17 10:20	06/06/17 13:45	1

Client Sample ID: PZ-207-AS

Date Collected: 05/12/17 11:07
Date Received: 05/12/17 13:00

Lab Sample ID: 160-22310-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/22/17 22:40	1
Acrylonitrile	ND		50	1.7	ug/L			05/22/17 22:40	1
Benzene	**1.3**	**J**	5.0	0.25	ug/L			05/22/17 22:40	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/22/17 22:40	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/22/17 22:40	1
Bromoform	ND		5.0	0.37	ug/L			05/22/17 22:40	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/22/17 22:40	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/22/17 22:40	1
Chlorobenzene	**14**		5.0	0.38	ug/L			05/22/17 22:40	1
Chloroethane	ND		10	0.38	ug/L			05/22/17 22:40	1
Chloroform	ND		5.0	0.15	ug/L			05/22/17 22:40	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/22/17 22:40	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/22/17 22:40	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/22/17 22:40	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/22/17 22:40	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/22/17 22:40	1
1,2-Dichlorobenzene	**0.51**	**J**	5.0	0.28	ug/L			05/22/17 22:40	1
1,4-Dichlorobenzene	**3.3**	**J**	5.0	0.35	ug/L			05/22/17 22:40	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/22/17 22:40	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/22/17 22:40	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/22/17 22:40	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/22/17 22:40	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/22/17 22:40	1
2-Hexanone	ND		20	0.59	ug/L			05/22/17 22:40	1
Methyl bromide	ND		10	0.40	ug/L			05/22/17 22:40	1
Methyl chloride	ND		10	0.55	ug/L			05/22/17 22:40	1
Methylene bromide	ND		5.0	0.41	ug/L			05/22/17 22:40	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/22/17 22:40	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/22/17 22:40	1

Client Sample ID: PZ-207-AS
Date Collected: 05/12/17 11:07
Date Received: 05/12/17 13:00

Lab Sample ID: 160-22310-10
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Methyl iodide	ND		5.0	1.5	ug/L			05/22/17 22:40	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/22/17 22:40	1
Styrene	ND		5.0	0.35	ug/L			05/22/17 22:40	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/22/17 22:40	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/22/17 22:40	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/22/17 22:40	1
Toluene	ND		5.0	1.0	ug/L			05/22/17 22:40	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/22/17 22:40	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/22/17 22:40	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/22/17 22:40	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/22/17 22:40	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/22/17 22:40	1
Trichloroethene	ND		5.0	0.29	ug/L			05/22/17 22:40	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/22/17 22:40	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/22/17 22:40	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/22/17 22:40	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/22/17 22:40	1
Xylenes, Total	ND		10	0.85	ug/L			05/22/17 22:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*71 - 139*		*05/22/17 22:40*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 121*		*05/22/17 22:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*95*		*76 - 121*		*05/22/17 22:40*	*1*
Toluene-d8 (Surr)	*99*		*80 - 129*		*05/22/17 22:40*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	**0.12**	**J**	1.0	0.10	mg/L			06/02/17 10:56	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.079**	**J**	0.20	0.052	mg/L			06/08/17 22:13	2
Sulfate	**0.55**	**J**	1.0	0.10	mg/L			06/08/17 22:13	2

Method: 300.0 - Anions, Ion Chromatography - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**170**		10	1.0	mg/L			06/08/17 22:28	50

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		50	15	ug/L		05/15/17 15:37	05/18/17 20:19	5
Iron	**20000**		500	150	ug/L		05/15/17 15:37	05/18/17 20:19	5
Arsenic	**25**	**J**	50	20	ug/L		05/15/17 15:37	05/18/17 20:19	5
Barium	**620**		250	75	ug/L		05/15/17 15:37	06/05/17 20:32	5
Beryllium	ND		25	7.5	ug/L		05/15/17 15:37	05/18/17 20:19	5
Boron	**810**		500	130	ug/L		05/15/17 15:37	05/18/17 20:19	5
Cadmium	ND		25	7.5	ug/L		05/15/17 15:37	05/18/17 20:19	5
CaHard	**260000**		12000	3700	ug/L		05/15/17 15:37	05/18/17 20:19	5
Calcium	**110000**		5000	1500	ug/L		05/15/17 15:37	05/18/17 20:19	5
Chromium	ND		50	15	ug/L		05/15/17 15:37	05/18/17 20:19	5
Cobalt	ND		250	75	ug/L		05/15/17 15:37	05/18/17 20:19	5

Client Sample ID: PZ-207-AS

Date Collected: 05/12/17 11:07
Date Received: 05/12/17 13:00

Lab Sample ID: 160-22310-10

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Copper	ND		130	35	ug/L		05/15/17 15:37	05/18/17 20:19	5
Lead	**16**	**J**	50	15	ug/L		05/15/17 15:37	05/18/17 20:19	5
Magnesium	**58**		5.0	1.5	mg/L		05/15/17 15:37	05/18/17 20:19	5
Manganese	**80**		75	20	ug/L		05/15/17 15:37	05/18/17 20:19	5
MgHard	**240000**		21000	6200	ug/L		05/15/17 15:37	05/18/17 20:19	5
Nickel	ND		0.20	0.050	mg/L		05/15/17 15:37	05/18/17 20:19	5
Phosphorus	**830**	**J**	1300	380	ug/L		05/15/17 15:37	05/18/17 20:19	5
Selenium	ND		75	40	ug/L		05/15/17 15:37	05/18/17 20:19	5
Silver	ND		50	15	ug/L		05/15/17 15:37	05/18/17 20:19	5
Sodium	**170000**		5000	1500	ug/L		05/15/17 15:37	05/18/17 20:19	5
Thallium	ND		100	25	ug/L		05/15/17 15:37	05/18/17 20:19	5
Total Hardness	**500000**		33000	9900	ug/L		05/15/17 15:37	05/18/17 20:19	5
Vanadium	ND		250	130	ug/L		05/15/17 15:37	05/18/17 20:19	5
Zinc	ND		100	30	ug/L		05/15/17 15:37	05/18/17 20:19	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		06/05/17 09:55	06/05/17 19:07	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**1000**		10	7.0	mg/L			05/18/17 08:23	1
Nitrate Nitrite as N	ND		50	22	ug/L			06/06/17 18:25	1
Chemical Oxygen Demand	**89**		5.0	2.4	mg/L		06/05/17 08:39	06/05/17 12:27	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**98000**		2500	1100	ug/L			06/06/17 17:40	50
Total Organic Carbon	**25**		10	7.2	mg/L			06/04/17 00:41	10

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	19.4	U	131	131	500	234	pCi/L	06/05/17 10:20	06/06/17 14:08	1

Client Sample ID: S-53

Date Collected: 05/12/17 11:40
Date Received: 05/12/17 13:00

Lab Sample ID: 160-22310-11

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/22/17 23:05	1
Acrylonitrile	ND		50	1.7	ug/L			05/22/17 23:05	1
Benzene	**4.8**	**J**	5.0	0.25	ug/L			05/22/17 23:05	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/22/17 23:05	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/22/17 23:05	1
Bromoform	ND		5.0	0.37	ug/L			05/22/17 23:05	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/22/17 23:05	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/22/17 23:05	1
Chlorobenzene	**0.57**	**J**	5.0	0.38	ug/L			05/22/17 23:05	1

Client Sample ID: S-53
Date Collected: 05/12/17 11:40
Date Received: 05/12/17 13:00

Lab Sample ID: 160-22310-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloroethane	ND		10	0.38	ug/L			05/22/17 23:05	1
Chloroform	ND		5.0	0.15	ug/L			05/22/17 23:05	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/22/17 23:05	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/22/17 23:05	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/22/17 23:05	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/22/17 23:05	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/22/17 23:05	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/22/17 23:05	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/22/17 23:05	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/22/17 23:05	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/22/17 23:05	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/22/17 23:05	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/22/17 23:05	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/22/17 23:05	1
2-Hexanone	ND		20	0.59	ug/L			05/22/17 23:05	1
Methyl bromide	ND		10	0.40	ug/L			05/22/17 23:05	1
Methyl chloride	ND		10	0.55	ug/L			05/22/17 23:05	1
Methylene bromide	ND		5.0	0.41	ug/L			05/22/17 23:05	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/22/17 23:05	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/22/17 23:05	1
Methyl iodide	ND		5.0	1.5	ug/L			05/22/17 23:05	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/22/17 23:05	1
Styrene	ND		5.0	0.35	ug/L			05/22/17 23:05	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/22/17 23:05	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/22/17 23:05	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/22/17 23:05	1
Toluene	ND		5.0	1.0	ug/L			05/22/17 23:05	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/22/17 23:05	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/22/17 23:05	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/22/17 23:05	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/22/17 23:05	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/22/17 23:05	1
Trichloroethene	ND		5.0	0.29	ug/L			05/22/17 23:05	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/22/17 23:05	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/22/17 23:05	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/22/17 23:05	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/22/17 23:05	1
Xylenes, Total	ND		10	0.85	ug/L			05/22/17 23:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*104*		*71 - 139*		*05/22/17 23:05*	*1*
Dibromofluoromethane (Surr)	*102*		*80 - 121*		*05/22/17 23:05*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*76 - 121*		*05/22/17 23:05*	*1*
Toluene-d8 (Surr)	*106*		*80 - 129*		*05/22/17 23:05*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.18**		0.10	0.026	mg/L			06/08/17 22:44	1
Iodide	ND		1.0	0.10	mg/L			06/02/17 11:27	1

Client Sample ID: S-53
Date Collected: 05/12/17 11:40
Date Received: 05/12/17 13:00

Lab Sample ID: 160-22310-11
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**30**		5.0	0.50	mg/L			06/08/17 22:59	25
Sulfate	**66**		13	1.3	mg/L			06/08/17 22:59	25

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		50	15	ug/L		05/15/17 15:37	05/18/17 20:23	5
Iron	**1900**		500	150	ug/L		05/15/17 15:37	05/18/17 20:23	5
Arsenic	ND		50	20	ug/L		05/15/17 15:37	05/18/17 20:23	5
Barium	**260**		250	75	ug/L		05/15/17 15:37	06/05/17 20:37	5
Beryllium	ND		25	7.5	ug/L		05/15/17 15:37	05/18/17 20:23	5
Boron	ND		500	130	ug/L		05/15/17 15:37	05/18/17 20:23	5
Cadmium	ND		25	7.5	ug/L		05/15/17 15:37	05/18/17 20:23	5
CaHard	**380000**		12000	3700	ug/L		05/15/17 15:37	05/18/17 20:23	5
Calcium	**150000**		5000	1500	ug/L		05/15/17 15:37	05/18/17 20:23	5
Chromium	**53**		50	15	ug/L		05/15/17 15:37	05/18/17 20:23	5
Cobalt	ND		250	75	ug/L		05/15/17 15:37	05/18/17 20:23	5
Copper	ND		130	35	ug/L		05/15/17 15:37	05/18/17 20:23	5
Lead	**19**	**J**	50	15	ug/L		05/15/17 15:37	05/18/17 20:23	5
Magnesium	**41**		5.0	1.5	mg/L		05/15/17 15:37	05/18/17 20:23	5
Manganese	**1700**		75	20	ug/L		05/15/17 15:37	05/18/17 20:23	5
MgHard	**170000**		21000	6200	ug/L		05/15/17 15:37	05/18/17 20:23	5
Nickel	ND		0.20	0.050	mg/L		05/15/17 15:37	05/18/17 20:23	5
Phosphorus	ND		1300	380	ug/L		05/15/17 15:37	05/18/17 20:23	5
Selenium	ND		75	40	ug/L		05/15/17 15:37	05/18/17 20:23	5
Silver	ND		50	15	ug/L		05/15/17 15:37	05/18/17 20:23	5
Sodium	**30000**		5000	1500	ug/L		05/15/17 15:37	05/18/17 20:23	5
Thallium	ND		100	25	ug/L		05/15/17 15:37	05/18/17 20:23	5
Total Hardness	**550000**		33000	9900	ug/L		05/15/17 15:37	05/18/17 20:23	5
Vanadium	ND		250	130	ug/L		05/15/17 15:37	05/18/17 20:23	5
Zinc	ND		100	30	ug/L		05/15/17 15:37	05/18/17 20:23	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		06/05/17 09:55	06/05/17 19:09	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**590**		5.0	3.5	mg/L			05/18/17 08:23	1
Ammonia	**350**		50	22	ug/L			06/06/17 17:43	1
Nitrate Nitrite as N	ND		50	22	ug/L			06/06/17 18:28	1
Chemical Oxygen Demand	ND		5.0	2.4	mg/L		06/05/17 08:39	06/05/17 12:27	1
Total Organic Carbon	**3.0**		1.0	0.72	mg/L			06/04/17 00:53	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	154	U	146	147	500	234	pCi/L	06/05/17 10:20	06/06/17 14:31	1

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

Lab Sample ID: MB 160-309388/7
Matrix: Water
Analysis Batch: 309388

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/18/17 17:45	1
Acrylonitrile	ND		50	1.7	ug/L			05/18/17 17:45	1
Benzene	ND		5.0	0.25	ug/L			05/18/17 17:45	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/18/17 17:45	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/18/17 17:45	1
Bromoform	ND		5.0	0.37	ug/L			05/18/17 17:45	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/18/17 17:45	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/18/17 17:45	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/18/17 17:45	1
Chloroethane	ND		10	0.38	ug/L			05/18/17 17:45	1
Chloroform	ND		5.0	0.15	ug/L			05/18/17 17:45	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/18/17 17:45	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/18/17 17:45	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/18/17 17:45	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/18/17 17:45	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/18/17 17:45	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/18/17 17:45	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/18/17 17:45	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/18/17 17:45	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/18/17 17:45	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/18/17 17:45	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/18/17 17:45	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/18/17 17:45	1
2-Hexanone	ND		20	0.59	ug/L			05/18/17 17:45	1
Methyl bromide	ND		10	0.40	ug/L			05/18/17 17:45	1
Methyl chloride	ND		10	0.55	ug/L			05/18/17 17:45	1
Methylene bromide	ND		5.0	0.41	ug/L			05/18/17 17:45	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/18/17 17:45	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/18/17 17:45	1
Methyl iodide	ND		5.0	1.5	ug/L			05/18/17 17:45	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/18/17 17:45	1
Styrene	ND		5.0	0.35	ug/L			05/18/17 17:45	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/18/17 17:45	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/18/17 17:45	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/18/17 17:45	1
Toluene	ND		5.0	1.0	ug/L			05/18/17 17:45	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/18/17 17:45	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/18/17 17:45	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/18/17 17:45	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/18/17 17:45	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/18/17 17:45	1
Trichloroethene	ND		5.0	0.29	ug/L			05/18/17 17:45	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/18/17 17:45	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/18/17 17:45	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/18/17 17:45	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/18/17 17:45	1
Xylenes, Total	ND		10	0.85	ug/L			05/18/17 17:45	1

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

Lab Sample ID: MB 160-309388/7
Matrix: Water
Analysis Batch: 309388

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	97		71 - 139		05/18/17 17:45	1
Dibromofluoromethane (Surr)	100		80 - 121		05/18/17 17:45	1
1,2-Dichloroethane-d4 (Surr)	105		76 - 121		05/18/17 17:45	1
Toluene-d8 (Surr)	101		80 - 129		05/18/17 17:45	1

Lab Sample ID: LCS 160-309388/4
Matrix: Water
Analysis Batch: 309388

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	50.0	44.7		ug/L		89	63 - 131
Acrylonitrile	500	479		ug/L		96	81 - 117
Benzene	50.0	42.7		ug/L		85	80 - 120
Bromochloromethane	50.0	48.4		ug/L		97	80 - 120
Bromodichloromethane	50.0	51.8		ug/L		104	80 - 120
Bromoform	50.0	51.1		ug/L		102	80 - 120
Carbon disulfide	50.0	47.7		ug/L		95	79 - 126
Carbon tetrachloride	50.0	53.1		ug/L		106	73 - 123
Chlorobenzene	50.0	46.0		ug/L		92	80 - 120
Chloroethane	50.0	58.2		ug/L		116	52 - 140
Chloroform	50.0	49.4		ug/L		99	80 - 120
cis-1,2-Dichloroethene	50.0	48.3		ug/L		97	80 - 120
cis-1,3-Dichloropropene	50.0	52.6		ug/L		105	80 - 122
Dibromochloromethane	50.0	50.2		ug/L		100	80 - 120
1,2-Dibromo-3-Chloropropane	50.0	49.5		ug/L		99	77 - 125
1,2-Dibromoethane (EDB)	50.0	48.4		ug/L		97	80 - 120
1,2-Dichlorobenzene	50.0	47.2		ug/L		94	80 - 120
1,4-Dichlorobenzene	50.0	48.2		ug/L		96	80 - 120
1,1-Dichloroethane	50.0	47.7		ug/L		95	80 - 120
1,2-Dichloroethane	50.0	51.5		ug/L		103	69 - 124
1,1-Dichloroethene	50.0	46.3		ug/L		93	77 - 126
1,2-Dichloropropane	50.0	47.8		ug/L		96	80 - 120
Ethylbenzene	50.0	52.4		ug/L		105	80 - 120
2-Hexanone	50.0	45.7		ug/L		91	64 - 136
Methyl bromide	50.0	67.2		ug/L		134	57 - 139
Methyl chloride	50.0	60.1		ug/L		120	70 - 127
Methylene bromide	50.0	49.1		ug/L		98	78 - 120
Methylene Chloride	50.0	46.1		ug/L		92	80 - 120
Methyl Ethyl Ketone	50.0	46.1		ug/L		92	70 - 130
Methyl iodide	50.0	48.4		ug/L		97	73 - 125
4-Methyl-2-pentanone (MIBK)	50.0	50.5		ug/L		101	76 - 129
Styrene	50.0	49.5		ug/L		99	80 - 120
1,1,1,2-Tetrachloroethane	50.0	49.0		ug/L		98	80 - 120
1,1,2,2-Tetrachloroethane	50.0	45.2		ug/L		90	80 - 120
Tetrachloroethene	50.0	48.0		ug/L		96	80 - 120
Toluene	50.0	49.0		ug/L		98	80 - 120
trans-1,4-Dichloro-2-butene	50.0	52.1		ug/L		104	75 - 127
trans-1,2-Dichloroethene	50.0	48.4		ug/L		97	80 - 120

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

Lab Sample ID: LCS 160-309388/4
Matrix: Water
Analysis Batch: 309388

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	50.0	51.8		ug/L		104	80 - 130
1,1,1-Trichloroethane	50.0	53.4		ug/L		107	76 - 120
1,1,2-Trichloroethane	50.0	46.1		ug/L		92	80 - 120
Trichloroethene	50.0	49.4		ug/L		99	73 - 120
Trichlorofluoromethane	50.0	60.6		ug/L		121	74 - 130
1,2,3-Trichloropropane	50.0	49.4		ug/L		99	80 - 120
Vinyl acetate	50.0	55.4		ug/L		111	37 - 140
Vinyl chloride	50.0	60.6		ug/L		121	51 - 140
Xylenes, Total	100	96.6		ug/L		97	80 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*71 - 139*
Dibromofluoromethane (Surr)	*99*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*104*		*76 - 121*
Toluene-d8 (Surr)	*100*		*80 - 129*

Lab Sample ID: LCSD 160-309388/5
Matrix: Water
Analysis Batch: 309388

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
Acetone	50.0	46.5		ug/L		93	63 - 131	4	20
Acrylonitrile	500	477		ug/L		95	81 - 117	1	20
Benzene	50.0	42.7		ug/L		85	80 - 120	0	20
Bromochloromethane	50.0	47.9		ug/L		96	80 - 120	1	20
Bromodichloromethane	50.0	51.6		ug/L		103	80 - 120	0	20
Bromoform	50.0	51.6		ug/L		103	80 - 120	1	20
Carbon disulfide	50.0	48.2		ug/L		96	79 - 126	1	20
Carbon tetrachloride	50.0	51.4		ug/L		103	73 - 123	3	20
Chlorobenzene	50.0	46.2		ug/L		92	80 - 120	0	20
Chloroethane	50.0	59.3		ug/L		119	52 - 140	2	20
Chloroform	50.0	49.2		ug/L		98	80 - 120	0	20
cis-1,2-Dichloroethene	50.0	49.0		ug/L		98	80 - 120	2	20
cis-1,3-Dichloropropene	50.0	52.4		ug/L		105	80 - 122	0	20
Dibromochloromethane	50.0	48.3		ug/L		97	80 - 120	4	20
1,2-Dibromo-3-Chloropropane	50.0	50.0		ug/L		100	77 - 125	1	20
1,2-Dibromoethane (EDB)	50.0	46.5		ug/L		93	80 - 120	4	20
1,2-Dichlorobenzene	50.0	46.3		ug/L		93	80 - 120	2	20
1,4-Dichlorobenzene	50.0	45.4		ug/L		91	80 - 120	6	20
1,1-Dichloroethane	50.0	47.0		ug/L		94	80 - 120	1	20
1,2-Dichloroethane	50.0	49.6		ug/L		99	69 - 124	4	20
1,1-Dichloroethene	50.0	46.3		ug/L		93	77 - 126	0	20
1,2-Dichloropropane	50.0	46.9		ug/L		94	80 - 120	2	20
Ethylbenzene	50.0	51.8		ug/L		104	80 - 120	1	20
2-Hexanone	50.0	46.6		ug/L		93	64 - 136	2	20
Methyl bromide	50.0	69.4		ug/L		139	57 - 139	3	20
Methyl chloride	50.0	58.8		ug/L		118	70 - 127	2	20
Methylene bromide	50.0	47.9		ug/L		96	78 - 120	2	20

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

Lab Sample ID: LCSD 160-309388/5
Matrix: Water
Analysis Batch: 309388

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
Methylene Chloride			50.0	46.5		ug/L		93	80 - 120	1	20
Methyl Ethyl Ketone			50.0	46.9		ug/L		94	70 - 130	2	20
Methyl iodide			50.0	49.9		ug/L		100	73 - 125	3	20
4-Methyl-2-pentanone (MIBK)			50.0	48.9		ug/L		98	76 - 129	3	20
Styrene			50.0	49.8		ug/L		100	80 - 120	1	20
1,1,1,2-Tetrachloroethane			50.0	46.8		ug/L		94	80 - 120	5	20
1,1,2,2-Tetrachloroethane			50.0	44.8		ug/L		90	80 - 120	1	20
Tetrachloroethene			50.0	46.8		ug/L		94	80 - 120	3	20
Toluene			50.0	47.6		ug/L		95	80 - 120	3	20
trans-1,4-Dichloro-2-butene			50.0	51.2		ug/L		102	75 - 127	2	20
trans-1,2-Dichloroethene			50.0	49.1		ug/L		98	80 - 120	2	20
trans-1,3-Dichloropropene			50.0	50.1		ug/L		100	80 - 130	3	20
1,1,1-Trichloroethane			50.0	51.6		ug/L		103	76 - 120	3	20
1,1,2-Trichloroethane			50.0	44.6		ug/L		89	80 - 120	3	20
Trichloroethene			50.0	48.3		ug/L		97	73 - 120	2	20
Trichlorofluoromethane			50.0	56.5		ug/L		113	74 - 130	7	20
1,2,3-Trichloropropane			50.0	47.5		ug/L		95	80 - 120	4	20
Vinyl acetate			50.0	53.5		ug/L		107	37 - 140	3	20
Vinyl chloride			50.0	59.3		ug/L		119	51 - 140	2	20
Xylenes, Total			100	95.7		ug/L		96	80 - 121	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*100*		*71 - 139*
Dibromofluoromethane (Surr)	*99*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*103*		*76 - 121*
Toluene-d8 (Surr)	*97*		*80 - 129*

Lab Sample ID: 160-22310-6 MS
Matrix: Water
Analysis Batch: 309388

Client Sample ID: PZ-204-SS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		50.0	35.3		ug/L		71	52 - 138
Acrylonitrile	ND		500	389		ug/L		78	58 - 142
Benzene	ND		50.0	40.4		ug/L		81	80 - 120
Bromochloromethane	ND		50.0	45.7		ug/L		91	72 - 125
Bromodichloromethane	ND		50.0	44.6		ug/L		89	71 - 128
Bromoform	ND		50.0	50.2		ug/L		100	65 - 133
Carbon disulfide	ND		50.0	37.2		ug/L		74	69 - 139
Carbon tetrachloride	ND		50.0	42.8		ug/L		86	70 - 126
Chlorobenzene	ND		50.0	46.0		ug/L		92	80 - 120
Chloroethane	ND		50.0	43.2		ug/L		86	59 - 144
Chloroform	ND		50.0	43.1		ug/L		86	80 - 120
cis-1,2-Dichloroethene	ND		50.0	45.6		ug/L		91	80 - 124
cis-1,3-Dichloropropene	ND		50.0	52.1		ug/L		104	67 - 130
Dibromochloromethane	ND		50.0	48.9		ug/L		98	68 - 133
1,2-Dibromo-3-Chloropropane	ND		50.0	48.3		ug/L		97	58 - 148
1,2-Dibromoethane (EDB)	ND		50.0	49.4		ug/L		99	65 - 138

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

Lab Sample ID: 160-22310-6 MS
Matrix: Water
Analysis Batch: 309388

Client Sample ID: PZ-204-SS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	ND		50.0	45.7		ug/L		91	80 - 124
1,4-Dichlorobenzene	ND		50.0	46.4		ug/L		93	80 - 120
1,1-Dichloroethane	ND	F1	50.0	37.9	F1	ug/L		76	80 - 120
1,2-Dichloroethane	ND		50.0	44.7		ug/L		89	56 - 136
1,1-Dichloroethene	ND		50.0	36.2		ug/L		72	66 - 137
1,2-Dichloropropane	ND		50.0	42.5		ug/L		85	80 - 123
Ethylbenzene	ND		50.0	47.7		ug/L		95	80 - 121
2-Hexanone	ND		50.0	47.4		ug/L		95	47 - 150
Methyl bromide	ND		50.0	50.8		ug/L		102	53 - 146
Methyl chloride	ND		50.0	45.5		ug/L		91	61 - 137
Methylene bromide	ND		50.0	40.9		ug/L		82	61 - 136
Methylene Chloride	ND	F1	50.0	37.2	F1	ug/L		74	80 - 120
Methyl Ethyl Ketone	ND		50.0	44.9		ug/L		90	58 - 143
Methyl iodide	ND		50.0	38.7		ug/L		77	69 - 124
4-Methyl-2-pentanone (MIBK)	ND		50.0	52.3		ug/L		105	53 - 150
Styrene	ND		50.0	49.9		ug/L		100	44 - 150
1,1,1,2-Tetrachloroethane	ND		50.0	47.5		ug/L		95	80 - 120
1,1,2,2-Tetrachloroethane	ND		50.0	43.8		ug/L		88	60 - 150
Tetrachloroethene	ND		50.0	47.5		ug/L		95	66 - 132
Toluene	ND		50.0	60.1		ug/L		120	75 - 134
trans-1,4-Dichloro-2-butene	ND		50.0	50.2		ug/L		100	55 - 146
trans-1,2-Dichloroethene	ND	F1	50.0	38.5	F1	ug/L		77	79 - 121
trans-1,3-Dichloropropene	ND		50.0	52.0		ug/L		104	68 - 143
1,1,1-Trichloroethane	ND		50.0	45.0		ug/L		90	74 - 123
1,1,2-Trichloroethane	ND		50.0	47.0		ug/L		94	70 - 134
Trichloroethene	ND		50.0	42.7		ug/L		85	63 - 120
Trichlorofluoromethane	ND		50.0	42.5		ug/L		85	53 - 150
1,2,3-Trichloropropane	ND		50.0	44.7		ug/L		89	62 - 137
Vinyl acetate	ND		50.0	52.4		ug/L		105	63 - 150
Vinyl chloride	ND		50.0	45.4		ug/L		91	54 - 140
Xylenes, Total	ND		100	95.5		ug/L		96	80 - 124

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*71 - 139*
Dibromofluoromethane (Surr)	*92*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*87*		*76 - 121*
Toluene-d8 (Surr)	*123*		*80 - 129*

Lab Sample ID: 160-22310-6 MSD
Matrix: Water
Analysis Batch: 309388

Client Sample ID: PZ-204-SS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		50.0	40.1		ug/L		80	52 - 138	13	20
Acrylonitrile	ND		500	446		ug/L		89	58 - 142	14	20
Benzene	ND		50.0	45.8		ug/L		92	80 - 120	13	20
Bromochloromethane	ND		50.0	51.3		ug/L		103	72 - 125	11	20
Bromodichloromethane	ND		50.0	46.0		ug/L		92	71 - 128	3	20

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

Lab Sample ID: 160-22310-6 MSD
Matrix: Water
Analysis Batch: 309388

Client Sample ID: PZ-204-SS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	ND		50.0	45.5		ug/L		91	65 - 133	10	20
Carbon disulfide	ND		50.0	43.4		ug/L		87	69 - 139	15	20
Carbon tetrachloride	ND		50.0	48.6		ug/L		97	70 - 126	13	20
Chlorobenzene	ND		50.0	46.4		ug/L		93	80 - 120	1	20
Chloroethane	ND		50.0	52.1		ug/L		104	59 - 144	19	20
Chloroform	ND		50.0	49.4		ug/L		99	80 - 120	14	20
cis-1,2-Dichloroethene	ND		50.0	53.2		ug/L		106	80 - 124	16	20
cis-1,3-Dichloropropene	ND		50.0	47.2		ug/L		94	67 - 130	10	20
Dibromochloromethane	ND		50.0	49.4		ug/L		99	68 - 133	1	20
1,2-Dibromo-3-Chloropropane	ND		50.0	48.0		ug/L		96	58 - 148	1	20
1,2-Dibromoethane (EDB)	ND		50.0	48.9		ug/L		98	65 - 138	1	20
1,2-Dichlorobenzene	ND		50.0	50.3		ug/L		101	80 - 124	10	20
1,4-Dichlorobenzene	ND		50.0	47.1		ug/L		94	80 - 120	2	20
1,1-Dichloroethane	ND	F1	50.0	43.4		ug/L		87	80 - 120	14	20
1,2-Dichloroethane	ND		50.0	48.9		ug/L		98	56 - 136	9	20
1,1-Dichloroethene	ND		50.0	41.7		ug/L		83	66 - 137	14	20
1,2-Dichloropropane	ND		50.0	44.3		ug/L		89	80 - 123	4	20
Ethylbenzene	ND		50.0	48.9		ug/L		98	80 - 121	3	20
2-Hexanone	ND		50.0	45.6		ug/L		91	47 - 150	4	20
Methyl bromide	ND		50.0	59.0		ug/L		118	53 - 146	15	20
Methyl chloride	ND		50.0	51.3		ug/L		103	61 - 137	12	20
Methylene bromide	ND		50.0	43.4		ug/L		87	61 - 136	6	20
Methylene Chloride	ND	F1	50.0	42.7		ug/L		85	80 - 120	14	20
Methyl Ethyl Ketone	ND		50.0	54.3		ug/L		109	58 - 143	19	20
Methyl iodide	ND		50.0	44.0		ug/L		88	69 - 124	13	20
4-Methyl-2-pentanone (MIBK)	ND		50.0	50.4		ug/L		101	53 - 150	4	20
Styrene	ND		50.0	50.1		ug/L		100	44 - 150	0	20
1,1,1,2-Tetrachloroethane	ND		50.0	48.0		ug/L		96	80 - 120	1	20
1,1,2,2-Tetrachloroethane	ND		50.0	46.5		ug/L		93	60 - 150	6	20
Tetrachloroethene	ND		50.0	47.9		ug/L		96	66 - 132	1	20
Toluene	ND		50.0	49.3		ug/L		99	75 - 134	20	20
trans-1,4-Dichloro-2-butene	ND		50.0	50.2		ug/L		100	55 - 146	0	20
trans-1,2-Dichloroethene	ND	F1	50.0	45.0		ug/L		90	79 - 121	15	20
trans-1,3-Dichloropropene	ND		50.0	52.4		ug/L		105	68 - 143	1	20
1,1,1-Trichloroethane	ND		50.0	50.3		ug/L		101	74 - 123	11	20
1,1,2-Trichloroethane	ND		50.0	48.1		ug/L		96	70 - 134	2	20
Trichloroethene	ND		50.0	42.7		ug/L		85	63 - 120	0	20
Trichlorofluoromethane	ND		50.0	49.2		ug/L		98	53 - 150	15	20
1,2,3-Trichloropropane	ND		50.0	48.7		ug/L		97	62 - 137	9	20
Vinyl acetate	ND		50.0	51.4		ug/L		103	63 - 150	2	20
Vinyl chloride	ND		50.0	52.4		ug/L		105	54 - 140	14	20
Xylenes, Total	ND		100	97.2		ug/L		97	80 - 124	2	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*71 - 139*
Dibromofluoromethane (Surr)	*98*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*99*		*76 - 121*
Toluene-d8 (Surr)	*97*		*80 - 129*

QC Sample Results

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22310-1

Lab Sample ID: MB 160-309845/8
Matrix: Water
Analysis Batch: 309845

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/22/17 19:48	1
Acrylonitrile	ND		50	1.7	ug/L			05/22/17 19:48	1
Benzene	ND		5.0	0.25	ug/L			05/22/17 19:48	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/22/17 19:48	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/22/17 19:48	1
Bromoform	ND		5.0	0.37	ug/L			05/22/17 19:48	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/22/17 19:48	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/22/17 19:48	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/22/17 19:48	1
Chloroethane	ND		10	0.38	ug/L			05/22/17 19:48	1
Chloroform	ND		5.0	0.15	ug/L			05/22/17 19:48	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/22/17 19:48	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/22/17 19:48	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/22/17 19:48	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/22/17 19:48	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/22/17 19:48	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/22/17 19:48	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/22/17 19:48	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/22/17 19:48	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/22/17 19:48	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/22/17 19:48	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/22/17 19:48	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/22/17 19:48	1
2-Hexanone	ND		20	0.59	ug/L			05/22/17 19:48	1
Methyl bromide	ND		10	0.40	ug/L			05/22/17 19:48	1
Methyl chloride	ND		10	0.55	ug/L			05/22/17 19:48	1
Methylene bromide	ND		5.0	0.41	ug/L			05/22/17 19:48	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/22/17 19:48	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/22/17 19:48	1
Methyl iodide	ND		5.0	1.5	ug/L			05/22/17 19:48	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/22/17 19:48	1
Styrene	ND		5.0	0.35	ug/L			05/22/17 19:48	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/22/17 19:48	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/22/17 19:48	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/22/17 19:48	1
Toluene	ND		5.0	1.0	ug/L			05/22/17 19:48	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/22/17 19:48	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/22/17 19:48	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/22/17 19:48	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/22/17 19:48	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/22/17 19:48	1
Trichloroethene	ND		5.0	0.29	ug/L			05/22/17 19:48	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/22/17 19:48	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/22/17 19:48	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/22/17 19:48	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/22/17 19:48	1
Xylenes, Total	ND		10	0.85	ug/L			05/22/17 19:48	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*71 - 139*		*05/22/17 19:48*	*1*

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

Lab Sample ID: MB 160-309845/8
Matrix: Water
Analysis Batch: 309845

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*96*		*80 - 121*		*05/22/17 19:48*	*1*
1,2-Dichloroethane-d4 (Surr)	*89*		*76 - 121*		*05/22/17 19:48*	*1*
Toluene-d8 (Surr)	*101*		*80 - 129*		*05/22/17 19:48*	*1*

Lab Sample ID: LCS 160-309845/3
Matrix: Water
Analysis Batch: 309845

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	50.0	44.0		ug/L		88	63 - 131
Acrylonitrile	500	491		ug/L		98	81 - 117
Benzene	50.0	42.8		ug/L		86	80 - 120
Bromochloromethane	50.0	45.5		ug/L		91	80 - 120
Bromodichloromethane	50.0	44.5		ug/L		89	80 - 120
Bromoform	50.0	48.3		ug/L		97	80 - 120
Carbon disulfide	50.0	48.0		ug/L		96	79 - 126
Carbon tetrachloride	50.0	40.7		ug/L		81	73 - 123
Chlorobenzene	50.0	45.2		ug/L		90	80 - 120
Chloroethane	50.0	42.5		ug/L		85	52 - 140
Chloroform	50.0	42.6		ug/L		85	80 - 120
cis-1,2-Dichloroethene	50.0	49.2		ug/L		98	80 - 120
cis-1,3-Dichloropropene	50.0	50.9		ug/L		102	80 - 122
Dibromochloromethane	50.0	44.8		ug/L		90	80 - 120
1,2-Dibromo-3-Chloropropane	50.0	46.2		ug/L		92	77 - 125
1,2-Dibromoethane (EDB)	50.0	48.7		ug/L		97	80 - 120
1,2-Dichlorobenzene	50.0	46.6		ug/L		93	80 - 120
1,4-Dichlorobenzene	50.0	46.3		ug/L		93	80 - 120
1,1-Dichloroethane	50.0	44.9		ug/L		90	80 - 120
1,2-Dichloroethane	50.0	41.0		ug/L		82	69 - 124
1,1-Dichloroethene	50.0	45.5		ug/L		91	77 - 126
1,2-Dichloropropane	50.0	49.9		ug/L		100	80 - 120
Ethylbenzene	50.0	50.5		ug/L		101	80 - 120
2-Hexanone	50.0	49.3		ug/L		99	64 - 136
Methyl bromide	50.0	50.7		ug/L		101	57 - 139
Methyl chloride	50.0	48.3		ug/L		97	70 - 127
Methylene bromide	50.0	45.0		ug/L		90	78 - 120
Methylene Chloride	50.0	47.1		ug/L		94	80 - 120
Methyl Ethyl Ketone	50.0	50.7		ug/L		101	70 - 130
Methyl iodide	50.0	45.3		ug/L		91	73 - 125
4-Methyl-2-pentanone (MIBK)	50.0	54.2		ug/L		108	76 - 129
Styrene	50.0	48.9		ug/L		98	80 - 120
1,1,1,2-Tetrachloroethane	50.0	43.6		ug/L		87	80 - 120
1,1,2,2-Tetrachloroethane	50.0	50.0		ug/L		100	80 - 120
Tetrachloroethene	50.0	45.3		ug/L		91	80 - 120
Toluene	50.0	49.9		ug/L		100	80 - 120
trans-1,4-Dichloro-2-butene	50.0	49.6		ug/L		99	75 - 127
trans-1,2-Dichloroethene	50.0	48.6		ug/L		97	80 - 120
trans-1,3-Dichloropropene	50.0	49.4		ug/L		99	80 - 130

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

Lab Sample ID: LCS 160-309845/3
Matrix: Water
Analysis Batch: 309845

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	50.0	41.9		ug/L		84	76 - 120
1,1,2-Trichloroethane	50.0	48.1		ug/L		96	80 - 120
Trichloroethene	50.0	44.5		ug/L		89	73 - 120
Trichlorofluoromethane	50.0	39.8		ug/L		80	74 - 130
1,2,3-Trichloropropane	50.0	47.5		ug/L		95	80 - 120
Vinyl acetate	50.0	54.3		ug/L		109	37 - 140
Vinyl chloride	50.0	47.8		ug/L		96	51 - 140
Xylenes, Total	100	96.6		ug/L		97	80 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*71 - 139*
Dibromofluoromethane (Surr)	*92*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*85*		*76 - 121*
Toluene-d8 (Surr)	*104*		*80 - 129*

Lab Sample ID: LCSD 160-309845/4
Matrix: Water
Analysis Batch: 309845

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
Acetone	50.0	38.0		ug/L		76	63 - 131	15	20
Acrylonitrile	500	458		ug/L		92	81 - 117	7	20
Benzene	50.0	41.9		ug/L		84	80 - 120	2	20
Bromochloromethane	50.0	43.5		ug/L		87	80 - 120	5	20
Bromodichloromethane	50.0	42.5		ug/L		85	80 - 120	4	20
Bromoform	50.0	45.5		ug/L		91	80 - 120	6	20
Carbon disulfide	50.0	47.7		ug/L		95	79 - 126	1	20
Carbon tetrachloride	50.0	40.3		ug/L		81	73 - 123	1	20
Chlorobenzene	50.0	45.1		ug/L		90	80 - 120	0	20
Chloroethane	50.0	43.2		ug/L		86	52 - 140	2	20
Chloroform	50.0	40.7		ug/L		81	80 - 120	5	20
cis-1,2-Dichloroethene	50.0	47.2		ug/L		94	80 - 120	4	20
cis-1,3-Dichloropropene	50.0	48.6		ug/L		97	80 - 122	5	20
Dibromochloromethane	50.0	43.3		ug/L		87	80 - 120	3	20
1,2-Dibromo-3-Chloropropane	50.0	43.5		ug/L		87	77 - 125	6	20
1,2-Dibromoethane (EDB)	50.0	45.5		ug/L		91	80 - 120	7	20
1,2-Dichlorobenzene	50.0	44.8		ug/L		90	80 - 120	4	20
1,4-Dichlorobenzene	50.0	45.3		ug/L		91	80 - 120	2	20
1,1-Dichloroethane	50.0	44.0		ug/L		88	80 - 120	2	20
1,2-Dichloroethane	50.0	38.3		ug/L		77	69 - 124	7	20
1,1-Dichloroethene	50.0	45.3		ug/L		91	77 - 126	0	20
1,2-Dichloropropane	50.0	47.8		ug/L		96	80 - 120	4	20
Ethylbenzene	50.0	51.1		ug/L		102	80 - 120	1	20
2-Hexanone	50.0	45.6		ug/L		91	64 - 136	8	20
Methyl bromide	50.0	49.7		ug/L		99	57 - 139	2	20
Methyl chloride	50.0	46.9		ug/L		94	70 - 127	3	20
Methylene bromide	50.0	42.5		ug/L		85	78 - 120	6	20
Methylene Chloride	50.0	44.8		ug/L		90	80 - 120	5	20

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

Lab Sample ID: LCSD 160-309845/4
Matrix: Water
Analysis Batch: 309845

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
Methyl Ethyl Ketone			50.0	42.7		ug/L		85	70 - 130	17	20
Methyl iodide			50.0	43.7		ug/L		87	73 - 125	3	20
4-Methyl-2-pentanone (MIBK)			50.0	51.1		ug/L		102	76 - 129	6	20
Styrene			50.0	48.7		ug/L		97	80 - 120	0	20
1,1,1,2-Tetrachloroethane			50.0	41.6		ug/L		83	80 - 120	5	20
1,1,2,2-Tetrachloroethane			50.0	46.8		ug/L		94	80 - 120	7	20
Tetrachloroethene			50.0	46.2		ug/L		92	80 - 120	2	20
Toluene			50.0	50.1		ug/L		100	80 - 120	0	20
trans-1,4-Dichloro-2-butene			50.0	47.2		ug/L		94	75 - 127	5	20
trans-1,2-Dichloroethene			50.0	47.9		ug/L		96	80 - 120	1	20
trans-1,3-Dichloropropene			50.0	47.5		ug/L		95	80 - 130	4	20
1,1,1-Trichloroethane			50.0	41.5		ug/L		83	76 - 120	1	20
1,1,2-Trichloroethane			50.0	46.9		ug/L		94	80 - 120	2	20
Trichloroethene			50.0	42.9		ug/L		86	73 - 120	4	20
Trichlorofluoromethane			50.0	39.6		ug/L		79	74 - 130	0	20
1,2,3-Trichloropropane			50.0	43.2		ug/L		86	80 - 120	9	20
Vinyl acetate			50.0	50.7		ug/L		101	37 - 140	7	20
Vinyl chloride			50.0	47.0		ug/L		94	51 - 140	2	20
Xylenes, Total			100	96.1		ug/L		96	80 - 121	1	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*105*		*71 - 139*
Dibromofluoromethane (Surr)	*88*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*79*		*76 - 121*
Toluene-d8 (Surr)	*104*		*80 - 129*

Lab Sample ID: 160-22310-11 MS
Matrix: Water
Analysis Batch: 309845

Client Sample ID: S-53
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		50.0	46.3		ug/L		93	52 - 138
Acrylonitrile	ND		500	521		ug/L		104	58 - 142
Benzene	4.8	J	50.0	49.1		ug/L		89	80 - 120
Bromochloromethane	ND		50.0	47.0		ug/L		94	72 - 125
Bromodichloromethane	ND		50.0	45.7		ug/L		91	71 - 128
Bromoform	ND		50.0	49.2		ug/L		98	65 - 133
Carbon disulfide	ND		50.0	48.1		ug/L		96	69 - 139
Carbon tetrachloride	ND		50.0	41.0		ug/L		82	70 - 126
Chlorobenzene	0.57	J	50.0	46.9		ug/L		93	80 - 120
Chloroethane	ND		50.0	42.0		ug/L		84	59 - 144
Chloroform	ND		50.0	43.3		ug/L		87	80 - 120
cis-1,2-Dichloroethene	ND		50.0	49.4		ug/L		99	80 - 124
cis-1,3-Dichloropropene	ND		50.0	49.6		ug/L		99	67 - 130
Dibromochloromethane	ND		50.0	45.9		ug/L		92	68 - 133
1,2-Dibromo-3-Chloropropane	ND		50.0	48.7		ug/L		97	58 - 148
1,2-Dibromoethane (EDB)	ND		50.0	49.0		ug/L		98	65 - 138
1,2-Dichlorobenzene	ND		50.0	46.5		ug/L		93	80 - 124

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

Lab Sample ID: 160-22310-11 MS
Matrix: Water
Analysis Batch: 309845

Client Sample ID: S-53
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	ND		50.0	45.7		ug/L		91	80 - 120
1,1-Dichloroethane	ND		50.0	45.4		ug/L		91	80 - 120
1,2-Dichloroethane	ND		50.0	42.8		ug/L		86	56 - 136
1,1-Dichloroethene	ND		50.0	45.2		ug/L		90	66 - 137
1,2-Dichloropropane	ND		50.0	50.3		ug/L		101	80 - 123
Ethylbenzene	ND		50.0	47.0		ug/L		94	80 - 121
2-Hexanone	ND		50.0	50.7		ug/L		101	47 - 150
Methyl bromide	ND		50.0	48.2		ug/L		96	53 - 146
Methyl chloride	ND		50.0	46.3		ug/L		93	61 - 137
Methylene bromide	ND		50.0	47.9		ug/L		96	61 - 136
Methylene Chloride	ND		50.0	48.2		ug/L		96	80 - 120
Methyl Ethyl Ketone	ND		50.0	51.2		ug/L		102	58 - 143
Methyl iodide	ND		50.0	45.6		ug/L		91	69 - 124
4-Methyl-2-pentanone (MIBK)	ND		50.0	57.6		ug/L		115	53 - 150
Styrene	ND		50.0	49.5		ug/L		99	44 - 150
1,1,1,2-Tetrachloroethane	ND		50.0	44.3		ug/L		89	80 - 120
1,1,2,2-Tetrachloroethane	ND		50.0	52.0		ug/L		104	60 - 150
Tetrachloroethene	ND		50.0	44.9		ug/L		90	66 - 132
Toluene	ND		50.0	50.3		ug/L		101	75 - 134
trans-1,4-Dichloro-2-butene	ND		50.0	49.2		ug/L		98	55 - 146
trans-1,2-Dichloroethene	ND		50.0	48.7		ug/L		97	79 - 121
trans-1,3-Dichloropropene	ND		50.0	49.7		ug/L		99	68 - 143
1,1,1-Trichloroethane	ND		50.0	42.4		ug/L		85	74 - 123
1,1,2-Trichloroethane	ND		50.0	49.7		ug/L		99	70 - 134
Trichloroethene	ND		50.0	44.4		ug/L		89	63 - 120
Trichlorofluoromethane	ND		50.0	38.9		ug/L		78	53 - 150
1,2,3-Trichloropropane	ND		50.0	48.7		ug/L		97	62 - 137
Vinyl acetate	ND		50.0	57.0		ug/L		114	63 - 150
Vinyl chloride	ND		50.0	45.7		ug/L		91	54 - 140
Xylenes, Total	ND		100	96.8		ug/L		97	80 - 124

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*71 - 139*
Dibromofluoromethane (Surr)	*90*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*87*		*76 - 121*
Toluene-d8 (Surr)	*97*		*80 - 129*

Lab Sample ID: 160-22310-11 MSD
Matrix: Water
Analysis Batch: 309845

Client Sample ID: S-53
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		50.0	50.4		ug/L		101	52 - 138	8	20
Acrylonitrile	ND		500	571		ug/L		114	58 - 142	9	20
Benzene	4.8	J	50.0	52.9		ug/L		96	80 - 120	7	20
Bromochloromethane	ND		50.0	50.5		ug/L		101	72 - 125	7	20
Bromodichloromethane	ND		50.0	49.2		ug/L		98	71 - 128	7	20
Bromoform	ND		50.0	50.7		ug/L		101	65 - 133	3	20

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

Lab Sample ID: 160-22310-11 MSD
Matrix: Water
Analysis Batch: 309845

Client Sample ID: S-53
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon disulfide	ND		50.0	50.8		ug/L		102	69 - 139	6	20
Carbon tetrachloride	ND		50.0	43.2		ug/L		86	70 - 126	5	20
Chlorobenzene	0.57	J	50.0	49.5		ug/L		98	80 - 120	5	20
Chloroethane	ND		50.0	44.0		ug/L		88	59 - 144	5	20
Chloroform	ND		50.0	47.0		ug/L		94	80 - 120	8	20
cis-1,2-Dichloroethene	ND		50.0	52.5		ug/L		105	80 - 124	6	20
cis-1,3-Dichloropropene	ND		50.0	54.0		ug/L		108	67 - 130	8	20
Dibromochloromethane	ND		50.0	47.4		ug/L		95	68 - 133	3	20
1,2-Dibromo-3-Chloropropane	ND		50.0	50.8		ug/L		102	58 - 148	4	20
1,2-Dibromoethane (EDB)	ND		50.0	52.1		ug/L		104	65 - 138	6	20
1,2-Dichlorobenzene	ND		50.0	48.4		ug/L		97	80 - 124	4	20
1,4-Dichlorobenzene	ND		50.0	47.5		ug/L		95	80 - 120	4	20
1,1-Dichloroethane	ND		50.0	48.9		ug/L		98	80 - 120	7	20
1,2-Dichloroethane	ND		50.0	45.6		ug/L		91	56 - 136	6	20
1,1-Dichloroethene	ND		50.0	48.1		ug/L		96	66 - 137	6	20
1,2-Dichloropropane	ND		50.0	54.9		ug/L		110	80 - 123	9	20
Ethylbenzene	ND		50.0	49.8		ug/L		100	80 - 121	6	20
2-Hexanone	ND		50.0	54.5		ug/L		109	47 - 150	7	20
Methyl bromide	ND		50.0	51.2		ug/L		102	53 - 146	6	20
Methyl chloride	ND		50.0	47.7		ug/L		95	61 - 137	3	20
Methylene bromide	ND		50.0	50.7		ug/L		101	61 - 136	6	20
Methylene Chloride	ND		50.0	51.3		ug/L		103	80 - 120	6	20
Methyl Ethyl Ketone	ND		50.0	55.9		ug/L		112	58 - 143	9	20
Methyl iodide	ND		50.0	49.0		ug/L		98	69 - 124	7	20
4-Methyl-2-pentanone (MIBK)	ND		50.0	61.3		ug/L		123	53 - 150	6	20
Styrene	ND		50.0	52.8		ug/L		106	44 - 150	6	20
1,1,1,2-Tetrachloroethane	ND		50.0	46.6		ug/L		93	80 - 120	5	20
1,1,2,2-Tetrachloroethane	ND		50.0	53.5		ug/L		107	60 - 150	3	20
Tetrachloroethene	ND		50.0	47.2		ug/L		94	66 - 132	5	20
Toluene	ND		50.0	52.9		ug/L		106	75 - 134	5	20
trans-1,4-Dichloro-2-butene	ND		50.0	52.1		ug/L		104	55 - 146	6	20
trans-1,2-Dichloroethene	ND		50.0	51.4		ug/L		103	79 - 121	5	20
trans-1,3-Dichloropropene	ND		50.0	53.1		ug/L		106	68 - 143	7	20
1,1,1-Trichloroethane	ND		50.0	45.3		ug/L		91	74 - 123	7	20
1,1,2-Trichloroethane	ND		50.0	52.9		ug/L		106	70 - 134	6	20
Trichloroethene	ND		50.0	47.1		ug/L		94	63 - 120	6	20
Trichlorofluoromethane	ND		50.0	41.3		ug/L		83	53 - 150	6	20
1,2,3-Trichloropropane	ND		50.0	50.6		ug/L		101	62 - 137	4	20
Vinyl acetate	ND		50.0	61.9		ug/L		124	63 - 150	8	20
Vinyl chloride	ND		50.0	47.7		ug/L		95	54 - 140	4	20
Xylenes, Total	ND		100	102		ug/L		102	80 - 124	5	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*99*		*71 - 139*
Dibromofluoromethane (Surr)	*89*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*88*		*76 - 121*
Toluene-d8 (Surr)	*95*		*80 - 129*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 160-311591/46
Matrix: Water
Analysis Batch: 311591

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	ND		1.0	0.10	mg/L			06/02/17 04:16	1

Lab Sample ID: LCS 160-311591/47
Matrix: Water
Analysis Batch: 311591

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iodide	4.00	3.92		mg/L		98	90 - 110

Lab Sample ID: 160-22310-6 MS
Matrix: Water
Analysis Batch: 311591

Client Sample ID: PZ-204-SS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iodide	ND		4.00	3.74		mg/L		94	90 - 110

Lab Sample ID: 160-22310-6 DU
Matrix: Water
Analysis Batch: 311591

Client Sample ID: PZ-204-SS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Iodide	ND		ND		mg/L		NC	20

Lab Sample ID: MB 160-312598/3
Matrix: Water
Analysis Batch: 312598

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.20	0.020	mg/L			06/08/17 14:33	1
Fluoride	ND		0.10	0.026	mg/L			06/08/17 14:33	1
Sulfate	ND		0.50	0.050	mg/L			06/08/17 14:33	1

Lab Sample ID: LCS 160-312598/4
Matrix: Water
Analysis Batch: 312598

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.00	1.91		mg/L		95	90 - 110
Fluoride	1.00	1.03		mg/L		103	90 - 110
Sulfate	8.00	7.87		mg/L		98	90 - 110

Lab Sample ID: 160-22310-6 MS
Matrix: Water
Analysis Batch: 312598

Client Sample ID: PZ-204-SS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	3.3		2.00	5.13	E	mg/L		93	90 - 110
Chloride	3.3		2.00	5.13	E	mg/L		93	90 - 110
Fluoride	0.44		2.00	2.50		mg/L		103	90 - 110

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: 160-22310-6 MS
Matrix: Water
Analysis Batch: 312598

Client Sample ID: PZ-204-SS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.44		2.00	2.50		mg/L		103	90 - 110

Lab Sample ID: 160-22310-6 DU
Matrix: Water
Analysis Batch: 312598

Client Sample ID: PZ-204-SS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride	3.3		3.29		mg/L		0.4	20
Chloride	3.3		3.29		mg/L		0.4	20
Fluoride	0.44		0.443		mg/L		0.5	20
Fluoride	0.44		0.443		mg/L		0.5	20

Method: 300.0 - Anions, Ion Chromatography - DL

Lab Sample ID: 160-22310-6 MS
Matrix: Water
Analysis Batch: 312598

Client Sample ID: PZ-204-SS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate - DL	20		100	115		mg/L		95	90 - 110
Sulfate - DL	20		100	115		mg/L		95	90 - 110

Lab Sample ID: 160-22310-6 DU
Matrix: Water
Analysis Batch: 312598

Client Sample ID: PZ-204-SS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate - DL	20		19.1		mg/L		4	20
Sulfate - DL	20		19.1		mg/L		4	20

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 160-308584/1-A
Matrix: Water
Analysis Batch: 309593

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 308584

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	3.0	ug/L		05/15/17 15:37	05/18/17 19:06	1
Iron	ND		100	30	ug/L		05/15/17 15:37	05/18/17 19:06	1
Arsenic	ND		10	4.0	ug/L		05/15/17 15:37	05/18/17 19:06	1
Beryllium	ND		5.0	1.5	ug/L		05/15/17 15:37	05/18/17 19:06	1
Boron	ND		100	25	ug/L		05/15/17 15:37	05/18/17 19:06	1
Cadmium	ND		5.0	1.5	ug/L		05/15/17 15:37	05/18/17 19:06	1
CaHard	ND		2500	750	ug/L		05/15/17 15:37	05/18/17 19:06	1
Calcium	ND		1000	300	ug/L		05/15/17 15:37	05/18/17 19:06	1
Chromium	ND		10	3.0	ug/L		05/15/17 15:37	05/18/17 19:06	1
Cobalt	ND		50	15	ug/L		05/15/17 15:37	05/18/17 19:06	1
Copper	ND		25	7.0	ug/L		05/15/17 15:37	05/18/17 19:06	1
Lead	ND		10	3.0	ug/L		05/15/17 15:37	05/18/17 19:06	1

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

Lab Sample ID: MB 160-308584/1-A
Matrix: Water
Analysis Batch: 309593

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 308584

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Magnesium	ND		1000	300	ug/L		05/15/17 15:37	05/18/17 19:06	1
Manganese	ND		15	4.0	ug/L		05/15/17 15:37	05/18/17 19:06	1
MgHard	ND		4100	1200	ug/L		05/15/17 15:37	05/18/17 19:06	1
Nickel	ND		40	10	ug/L		05/15/17 15:37	05/18/17 19:06	1
Phosphorus	ND		250	75	ug/L		05/15/17 15:37	05/18/17 19:06	1
Selenium	ND		15	8.0	ug/L		05/15/17 15:37	05/18/17 19:06	1
Silver	ND		10	3.0	ug/L		05/15/17 15:37	05/18/17 19:06	1
Sodium	ND		1000	300	ug/L		05/15/17 15:37	05/18/17 19:06	1
Thallium	ND		20	5.0	ug/L		05/15/17 15:37	05/18/17 19:06	1
Total Hardness	ND		6600	2000	ug/L		05/15/17 15:37	05/18/17 19:06	1
Vanadium	ND		50	25	ug/L		05/15/17 15:37	05/18/17 19:06	1
Zinc	ND		20	6.0	ug/L		05/15/17 15:37	05/18/17 19:06	1

Lab Sample ID: MB 160-308584/1-A
Matrix: Water
Analysis Batch: 312045

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 308584

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Barium	ND		50	15	ug/L		05/15/17 15:37	06/05/17 19:06	1

Lab Sample ID: LCS 160-308584/2-A
Matrix: Water
Analysis Batch: 309593

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 308584

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	500	496		ug/L		99	80 - 120
Iron	10000	9800		ug/L		98	80 - 120
Arsenic	1000	1040		ug/L		104	80 - 120
Beryllium	100	96.5		ug/L		97	80 - 120
Boron	200	194		ug/L		97	80 - 120
Cadmium	1000	1020		ug/L		102	80 - 120
Calcium	10000	10500		ug/L		105	80 - 120
Chromium	1000	1020		ug/L		102	80 - 120
Cobalt	1000	1060		ug/L		106	80 - 120
Copper	1000	1040		ug/L		104	80 - 120
Lead	1000	1120		ug/L		112	80 - 120
Magnesium	10000	9570		ug/L		96	80 - 120
Manganese	1000	953		ug/L		95	80 - 120
Nickel	1000	1090		ug/L		109	80 - 120
Phosphorus	1000	1120		ug/L		112	80 - 120
Selenium	500	471		ug/L		94	80 - 120
Silver	200	211		ug/L		105	80 - 120
Sodium	10000	10100		ug/L		101	80 - 120
Thallium	200	218		ug/L		109	80 - 120
Vanadium	1000	1010		ug/L		101	80 - 120
Zinc	1000	1020		ug/L		102	80 - 120

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

Lab Sample ID: LCS 160-308584/2-A
Matrix: Water
Analysis Batch: 312045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 308584

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	1000	1010		ug/L		101	80 - 120

Lab Sample ID: 160-22310-2 MS
Matrix: Water
Analysis Batch: 309593

Client Sample ID: S-5
Prep Type: Total/NA
Prep Batch: 308584

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		500	521		ug/L		104	75 - 125
Iron	37000		10000	48400		ug/L		113	75 - 125
Arsenic	41	J	1000	1150		ug/L		110	75 - 125
Beryllium	ND		100	105		ug/L		105	75 - 125
Boron	2800		200	3130	4	ug/L		153	75 - 125
Cadmium	ND		1000	1050		ug/L		105	75 - 125
Calcium	84000		10000	100000	4	ug/L		156	75 - 125
Chromium	ND		1000	1030		ug/L		103	75 - 125
Cobalt	ND		1000	1080		ug/L		108	75 - 125
Copper	ND		1000	1080		ug/L		108	75 - 125
Lead	27	J	1000	1140		ug/L		112	75 - 125
Magnesium	72000		10000	83300	4	ug/L		118	75 - 125
Manganese	600		1000	1620		ug/L		102	75 - 125
Nickel	99	J	1000	1200		ug/L		110	75 - 125
Phosphorus	6800		1000	8110	4	ug/L		132	75 - 125
Selenium	ND		500	499		ug/L		100	75 - 125
Silver	ND		200	207		ug/L		104	75 - 125
Sodium	480000		10000	509000	E 4	ug/L		254	75 - 125
Thallium	ND		200	215		ug/L		107	75 - 125
Vanadium	ND		1000	1100		ug/L		110	75 - 125
Zinc	87	J	1000	1150		ug/L		106	75 - 125

Lab Sample ID: 160-22310-2 MS
Matrix: Water
Analysis Batch: 312132

Client Sample ID: S-5
Prep Type: Total/NA
Prep Batch: 308584

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Barium	780		1000	1720		ug/L		94	75 - 125

Lab Sample ID: 160-22310-2 MSD
Matrix: Water
Analysis Batch: 309593

Client Sample ID: S-5
Prep Type: Total/NA
Prep Batch: 308584

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		500	505		ug/L		101	75 - 125	3	20
Iron	37000		10000	47600		ug/L		105	75 - 125	2	20
Arsenic	41	J	1000	1110		ug/L		107	75 - 125	3	20
Beryllium	ND		100	104		ug/L		104	75 - 125	1	20
Boron	2800		200	3070	4	ug/L		124	75 - 125	2	20
Cadmium	ND		1000	1030		ug/L		103	75 - 125	2	20
Calcium	84000		10000	97200	4	ug/L		128	75 - 125	3	20
Chromium	ND		1000	1010		ug/L		101	75 - 125	2	20

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

Lab Sample ID: 160-22310-2 MSD
Matrix: Water
Analysis Batch: 309593

Client Sample ID: S-5
Prep Type: Total/NA
Prep Batch: 308584

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Cobalt	ND		1000	1050		ug/L		105	75 - 125	2	20
Copper	ND		1000	1050		ug/L		105	75 - 125	3	20
Lead	27	J	1000	1110		ug/L		108	75 - 125	3	20
Magnesium	72000		10000	82200	4	ug/L		106	75 - 125	1	20
Manganese	600		1000	1600		ug/L		100	75 - 125	1	20
Nickel	99	J	1000	1170		ug/L		107	75 - 125	2	20
Phosphorus	6800		1000	7680	4	ug/L		88	75 - 125	6	20
Selenium	ND		500	499		ug/L		100	75 - 125	0	20
Silver	ND		200	206		ug/L		103	75 - 125	1	20
Sodium	480000		10000	500000	4	ug/L		169	75 - 125	2	20
Thallium	ND		200	216		ug/L		108	75 - 125	0	20
Vanadium	ND		1000	1070		ug/L		107	75 - 125	3	20
Zinc	87	J	1000	1120		ug/L		103	75 - 125	3	20

Lab Sample ID: 160-22310-2 MSD
Matrix: Water
Analysis Batch: 312132

Client Sample ID: S-5
Prep Type: Total/NA
Prep Batch: 308584

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Barium	780		1000	1760		ug/L		99	75 - 125	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 160-311953/1-A
Matrix: Water
Analysis Batch: 312038

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 311953

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		06/05/17 09:55	06/05/17 18:36	1

Lab Sample ID: LCS 160-311953/2-A
Matrix: Water
Analysis Batch: 312038

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 311953

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	4.70		ug/L		94	80 - 120

Lab Sample ID: 160-22310-3 MS
Matrix: Water
Analysis Batch: 312038

Client Sample ID: I-4
Prep Type: Total/NA
Prep Batch: 311953

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		5.00	4.69		ug/L		94	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 160-22310-3 MSD — **Client Sample ID: I-4**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 312038 — **Prep Batch: 311953**

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		5.00	4.77		ug/L		95	80 - 120	2	20

Method: 160.1 - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 160-309293/1 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 309293

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	ND		5.0	3.5	mg/L			05/18/17 08:23	1

Lab Sample ID: LCS 160-309293/2 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 309293

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids (TDS)	500	507		mg/L		101	90 - 110

Lab Sample ID: 160-22310-2 DU — **Client Sample ID: S-5**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 309293

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids (TDS)	2200		2240		mg/L		0.2	5

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 160-312154/11 — **Client Sample ID: Method Blank**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 312154

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	ND		50	22	ug/L			06/06/17 16:53	1

Lab Sample ID: LCS 160-312154/12 — **Client Sample ID: Lab Control Sample**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 312154

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	500	501		ug/L		100	90 - 110

Lab Sample ID: 160-22264-D-12 MS — **Client Sample ID: Matrix Spike**
Matrix: Water — **Prep Type: Total/NA**
Analysis Batch: 312154

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	980	F1	500	1610	F1	ug/L		126	90 - 110

Method: 350.1 - Nitrogen, Ammonia (Continued)

Lab Sample ID: 160-22310-9 MS
Matrix: Water
Analysis Batch: 312154

Client Sample ID: PZ-206-SS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	260		500	803		ug/L		109	90 - 110

Lab Sample ID: 160-22264-D-12 DU
Matrix: Water
Analysis Batch: 312154

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia	980	F1	980		ug/L		0.3	20

Method: 353.1 Preserved - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 160-312153/13
Matrix: Water
Analysis Batch: 312153

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	31.4	J	50	22	ug/L			06/06/17 17:26	1

Lab Sample ID: LCS 160-312153/14
Matrix: Water
Analysis Batch: 312153

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	500	486		ug/L		97	90 - 110

Lab Sample ID: 160-22264-D-12 MS
Matrix: Water
Analysis Batch: 312153

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	ND	F1	500	ND	F1	ug/L		0	90 - 110

Lab Sample ID: 160-22310-9 MS
Matrix: Water
Analysis Batch: 312153

Client Sample ID: PZ-206-SS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	ND	F1	500	ND	F1	ug/L		0	90 - 110

Lab Sample ID: 160-22264-D-12 DU
Matrix: Water
Analysis Batch: 312153

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	ND	F1	ND		ug/L		NC	20

Method: 410.4 - COD

Lab Sample ID: MB 160-311866/3-A
Matrix: Water
Analysis Batch: 311982

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 311866

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		5.0	2.4	mg/L		06/05/17 08:39	06/05/17 12:27	1

Lab Sample ID: LCS 160-311866/4-A
Matrix: Water
Analysis Batch: 311982

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 311866

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	50.0	49.0		mg/L		98	90 - 110

Lab Sample ID: 160-22310-6 MS
Matrix: Water
Analysis Batch: 311982

Client Sample ID: PZ-204-SS
Prep Type: Total/NA
Prep Batch: 311866

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	ND		50.0	53.0		mg/L		106	90 - 110

Lab Sample ID: 160-22310-6 DU
Matrix: Water
Analysis Batch: 311982

Client Sample ID: PZ-204-SS
Prep Type: Total/NA
Prep Batch: 311866

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chemical Oxygen Demand	ND		ND		mg/L		NC	20

Method: 415.1 - TOC

Lab Sample ID: MB 160-311962/24
Matrix: Water
Analysis Batch: 311962

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	ND		1.0	0.72	mg/L			06/03/17 21:18	1

Lab Sample ID: LCS 160-311962/25
Matrix: Water
Analysis Batch: 311962

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	10.0	9.99		mg/L		100	90 - 110

Method: 415.1 - TOC - DL

Lab Sample ID: 160-22310-2 MS
Matrix: Water
Analysis Batch: 311962

Client Sample ID: S-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - DL	77		100	183		mg/L		107	76 - 120

Method: 415.1 - TOC - DL (Continued)

Lab Sample ID: 160-22310-2 DU
Matrix: Water
Analysis Batch: 311962

Client Sample ID: S-5
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Organic Carbon - DL	77			77.5		mg/L				1	20

Method: 906.0 - Tritium, Total (LSC)

Lab Sample ID: MB 160-311965/1-A
Matrix: Water
Analysis Batch: 312262

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 311965

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-13.96	U	128	128	500	237	pCi/L	06/05/17 10:20	06/06/17 10:22	1

Lab Sample ID: LCS 160-311965/2-A
Matrix: Water
Analysis Batch: 312262

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 311965

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Tritium			2890	2794		409	500	242	pCi/L	97	74 - 114		

Lab Sample ID: 160-22412-E-5-A MS
Matrix: Water
Analysis Batch: 312262

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 311965

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Tritium	55.4	U	2900	2673		392	500	232	pCi/L	90	67 - 130		

Lab Sample ID: 160-22412-E-5-B MSD
Matrix: Water
Analysis Batch: 312262

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 311965

Analyte	Sample Result	Sample Qual	Spike Added	MSD Result	MSD Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits	RER	RER Limit
Tritium	55.4	U	2900	2853		410	500	235	pCi/L	96	67 - 130	0.22	1

GC/MS VOA

Analysis Batch: 309388

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22310-1	TRIP BLANK	Total/NA	Water	8260C	
160-22310-6	PZ-204-SS	Total/NA	Water	8260C	
160-22310-8	LR-100	Total/NA	Water	8260C	
160-22310-9	PZ-206-SS	Total/NA	Water	8260C	
MB 160-309388/7	Method Blank	Total/NA	Water	8260C	
LCS 160-309388/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 160-309388/5	Lab Control Sample Dup	Total/NA	Water	8260C	
160-22310-6 MS	PZ-204-SS	Total/NA	Water	8260C	
160-22310-6 MSD	PZ-204-SS	Total/NA	Water	8260C	

Analysis Batch: 309845

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22310-2	S-5	Total/NA	Water	8260C	
160-22310-3	I-4	Total/NA	Water	8260C	
160-22310-4	D-3	Total/NA	Water	8260C	
160-22310-5	PZ-204A-SS	Total/NA	Water	8260C	
160-22310-7	LCS-5A	Total/NA	Water	8260C	
160-22310-10	PZ-207-AS	Total/NA	Water	8260C	
160-22310-11	S-53	Total/NA	Water	8260C	
MB 160-309845/8	Method Blank	Total/NA	Water	8260C	
LCS 160-309845/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 160-309845/4	Lab Control Sample Dup	Total/NA	Water	8260C	
160-22310-11 MS	S-53	Total/NA	Water	8260C	
160-22310-11 MSD	S-53	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 311591

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22310-2	S-5	Total/NA	Water	300.0	
160-22310-3	I-4	Total/NA	Water	300.0	
160-22310-4	D-3	Total/NA	Water	300.0	
160-22310-5	PZ-204A-SS	Total/NA	Water	300.0	
160-22310-6	PZ-204-SS	Total/NA	Water	300.0	
160-22310-7	LCS-5A	Total/NA	Water	300.0	
160-22310-8	LR-100	Total/NA	Water	300.0	
160-22310-9	PZ-206-SS	Total/NA	Water	300.0	
160-22310-10	PZ-207-AS	Total/NA	Water	300.0	
160-22310-11	S-53	Total/NA	Water	300.0	
MB 160-311591/46	Method Blank	Total/NA	Water	300.0	
LCS 160-311591/47	Lab Control Sample	Total/NA	Water	300.0	
160-22310-6 MS	PZ-204-SS	Total/NA	Water	300.0	
160-22310-6 DU	PZ-204-SS	Total/NA	Water	300.0	

Analysis Batch: 312598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22310-2 - DL	S-5	Total/NA	Water	300.0	
160-22310-2 - DL2	S-5	Total/NA	Water	300.0	
160-22310-3 - DL	I-4	Total/NA	Water	300.0	
160-22310-3 - DL2	I-4	Total/NA	Water	300.0	

HPLC/IC (Continued)

Analysis Batch: 312598 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22310-4 - DL	D-3	Total/NA	Water	300.0	
160-22310-4 - DL2	D-3	Total/NA	Water	300.0	
160-22310-5 - DL	PZ-204A-SS	Total/NA	Water	300.0	
160-22310-5 - DL2	PZ-204A-SS	Total/NA	Water	300.0	
160-22310-5 - DL3	PZ-204A-SS	Total/NA	Water	300.0	
160-22310-6	PZ-204-SS	Total/NA	Water	300.0	
160-22310-6 - DL	PZ-204-SS	Total/NA	Water	300.0	
160-22310-7 - DL	LCS-5A	Total/NA	Water	300.0	
160-22310-7 - DL2	LCS-5A	Total/NA	Water	300.0	
160-22310-8 - DL	LR-100	Total/NA	Water	300.0	
160-22310-8 - DL2	LR-100	Total/NA	Water	300.0	
160-22310-9 - DL	PZ-206-SS	Total/NA	Water	300.0	
160-22310-9 - DL2	PZ-206-SS	Total/NA	Water	300.0	
160-22310-10 - DL	PZ-207-AS	Total/NA	Water	300.0	
160-22310-10 - DL2	PZ-207-AS	Total/NA	Water	300.0	
160-22310-11	S-53	Total/NA	Water	300.0	
160-22310-11 - DL	S-53	Total/NA	Water	300.0	
MB 160-312598/3	Method Blank	Total/NA	Water	300.0	
LCS 160-312598/4	Lab Control Sample	Total/NA	Water	300.0	
160-22310-6 MS	PZ-204-SS	Total/NA	Water	300.0	
160-22310-6 MS - DL	PZ-204-SS	Total/NA	Water	300.0	
160-22310-6 DU	PZ-204-SS	Total/NA	Water	300.0	
160-22310-6 DU - DL	PZ-204-SS	Total/NA	Water	300.0	

Metals

Prep Batch: 308584

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22310-2	S-5	Total/NA	Water	3010A	
160-22310-3	I-4	Total/NA	Water	3010A	
160-22310-4	D-3	Total/NA	Water	3010A	
160-22310-5	PZ-204A-SS	Total/NA	Water	3010A	
160-22310-6	PZ-204-SS	Total/NA	Water	3010A	
160-22310-7	LCS-5A	Total/NA	Water	3010A	
160-22310-8	LR-100	Total/NA	Water	3010A	
160-22310-9	PZ-206-SS	Total/NA	Water	3010A	
160-22310-10	PZ-207-AS	Total/NA	Water	3010A	
160-22310-11	S-53	Total/NA	Water	3010A	
MB 160-308584/1-A	Method Blank	Total/NA	Water	3010A	
LCS 160-308584/2-A	Lab Control Sample	Total/NA	Water	3010A	
160-22310-2 MS	S-5	Total/NA	Water	3010A	
160-22310-2 MSD	S-5	Total/NA	Water	3010A	

Analysis Batch: 309593

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22310-2	S-5	Total/NA	Water	6010C	308584
160-22310-3	I-4	Total/NA	Water	6010C	308584
160-22310-4	D-3	Total/NA	Water	6010C	308584
160-22310-5	PZ-204A-SS	Total/NA	Water	6010C	308584
160-22310-6	PZ-204-SS	Total/NA	Water	6010C	308584

Metals (Continued)

Analysis Batch: 309593 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22310-7	LCS-5A	Total/NA	Water	6010C	308584
160-22310-8	LR-100	Total/NA	Water	6010C	308584
160-22310-9	PZ-206-SS	Total/NA	Water	6010C	308584
160-22310-10	PZ-207-AS	Total/NA	Water	6010C	308584
160-22310-11	S-53	Total/NA	Water	6010C	308584
MB 160-308584/1-A	Method Blank	Total/NA	Water	6010C	308584
LCS 160-308584/2-A	Lab Control Sample	Total/NA	Water	6010C	308584
160-22310-2 MS	S-5	Total/NA	Water	6010C	308584
160-22310-2 MSD	S-5	Total/NA	Water	6010C	308584

Prep Batch: 311953

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22310-2	S-5	Total/NA	Water	7470A	
160-22310-3	I-4	Total/NA	Water	7470A	
160-22310-4	D-3	Total/NA	Water	7470A	
160-22310-5	PZ-204A-SS	Total/NA	Water	7470A	
160-22310-6	PZ-204-SS	Total/NA	Water	7470A	
160-22310-7	LCS-5A	Total/NA	Water	7470A	
160-22310-8	LR-100	Total/NA	Water	7470A	
160-22310-9	PZ-206-SS	Total/NA	Water	7470A	
160-22310-10	PZ-207-AS	Total/NA	Water	7470A	
160-22310-11	S-53	Total/NA	Water	7470A	
MB 160-311953/1-A	Method Blank	Total/NA	Water	7470A	
LCS 160-311953/2-A	Lab Control Sample	Total/NA	Water	7470A	
160-22310-3 MS	I-4	Total/NA	Water	7470A	
160-22310-3 MSD	I-4	Total/NA	Water	7470A	

Analysis Batch: 312038

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22310-2	S-5	Total/NA	Water	7470A	311953
160-22310-3	I-4	Total/NA	Water	7470A	311953
160-22310-4	D-3	Total/NA	Water	7470A	311953
160-22310-5	PZ-204A-SS	Total/NA	Water	7470A	311953
160-22310-6	PZ-204-SS	Total/NA	Water	7470A	311953
160-22310-7	LCS-5A	Total/NA	Water	7470A	311953
160-22310-8	LR-100	Total/NA	Water	7470A	311953
160-22310-9	PZ-206-SS	Total/NA	Water	7470A	311953
160-22310-10	PZ-207-AS	Total/NA	Water	7470A	311953
160-22310-11	S-53	Total/NA	Water	7470A	311953
MB 160-311953/1-A	Method Blank	Total/NA	Water	7470A	311953
LCS 160-311953/2-A	Lab Control Sample	Total/NA	Water	7470A	311953
160-22310-3 MS	I-4	Total/NA	Water	7470A	311953
160-22310-3 MSD	I-4	Total/NA	Water	7470A	311953

Analysis Batch: 312045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22310-3	I-4	Total/NA	Water	6010C	308584
160-22310-4	D-3	Total/NA	Water	6010C	308584
160-22310-5	PZ-204A-SS	Total/NA	Water	6010C	308584
160-22310-6	PZ-204-SS	Total/NA	Water	6010C	308584
160-22310-7	LCS-5A	Total/NA	Water	6010C	308584

Metals (Continued)

Analysis Batch: 312045 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22310-8	LR-100	Total/NA	Water	6010C	308584
160-22310-9	PZ-206-SS	Total/NA	Water	6010C	308584
160-22310-10	PZ-207-AS	Total/NA	Water	6010C	308584
160-22310-11	S-53	Total/NA	Water	6010C	308584
MB 160-308584/1-A	Method Blank	Total/NA	Water	6010C	308584
LCS 160-308584/2-A	Lab Control Sample	Total/NA	Water	6010C	308584

Analysis Batch: 312132

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22310-2	S-5	Total/NA	Water	6010C	308584
160-22310-2 MS	S-5	Total/NA	Water	6010C	308584
160-22310-2 MSD	S-5	Total/NA	Water	6010C	308584

General Chemistry

Analysis Batch: 309293

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22310-2	S-5	Total/NA	Water	160.1	
160-22310-3	I-4	Total/NA	Water	160.1	
160-22310-4	D-3	Total/NA	Water	160.1	
160-22310-5	PZ-204A-SS	Total/NA	Water	160.1	
160-22310-6	PZ-204-SS	Total/NA	Water	160.1	
160-22310-7	LCS-5A	Total/NA	Water	160.1	
160-22310-8	LR-100	Total/NA	Water	160.1	
160-22310-9	PZ-206-SS	Total/NA	Water	160.1	
160-22310-10	PZ-207-AS	Total/NA	Water	160.1	
160-22310-11	S-53	Total/NA	Water	160.1	
MB 160-309293/1	Method Blank	Total/NA	Water	160.1	
LCS 160-309293/2	Lab Control Sample	Total/NA	Water	160.1	
160-22310-2 DU	S-5	Total/NA	Water	160.1	

Prep Batch: 311866

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22310-2 - DL	S-5	Total/NA	Water	410.4	
160-22310-3 - DL	I-4	Total/NA	Water	410.4	
160-22310-4 - DL	D-3	Total/NA	Water	410.4	
160-22310-5 - DL	PZ-204A-SS	Total/NA	Water	410.4	
160-22310-6	PZ-204-SS	Total/NA	Water	410.4	
160-22310-7 - DL	LCS-5A	Total/NA	Water	410.4	
160-22310-8	LR-100	Total/NA	Water	410.4	
160-22310-9	PZ-206-SS	Total/NA	Water	410.4	
160-22310-10	PZ-207-AS	Total/NA	Water	410.4	
160-22310-11	S-53	Total/NA	Water	410.4	
MB 160-311866/3-A	Method Blank	Total/NA	Water	410.4	
LCS 160-311866/4-A	Lab Control Sample	Total/NA	Water	410.4	
160-22310-6 MS	PZ-204-SS	Total/NA	Water	410.4	
160-22310-6 DU	PZ-204-SS	Total/NA	Water	410.4	

General Chemistry (Continued)

Analysis Batch: 311962

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22310-2 - DL	S-5	Total/NA	Water	415.1	
160-22310-3 - DL	I-4	Total/NA	Water	415.1	
160-22310-4 - DL	D-3	Total/NA	Water	415.1	
160-22310-5 - DL	PZ-204A-SS	Total/NA	Water	415.1	
160-22310-6	PZ-204-SS	Total/NA	Water	415.1	
160-22310-7 - DL	LCS-5A	Total/NA	Water	415.1	
160-22310-8 - DL	LR-100	Total/NA	Water	415.1	
160-22310-9 - DL	PZ-206-SS	Total/NA	Water	415.1	
160-22310-10 - DL	PZ-207-AS	Total/NA	Water	415.1	
160-22310-11	S-53	Total/NA	Water	415.1	
MB 160-311962/24	Method Blank	Total/NA	Water	415.1	
LCS 160-311962/25	Lab Control Sample	Total/NA	Water	415.1	
160-22310-2 MS - DL	S-5	Total/NA	Water	415.1	
160-22310-2 DU - DL	S-5	Total/NA	Water	415.1	

Analysis Batch: 311982

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22310-2 - DL	S-5	Total/NA	Water	410.4	311866
160-22310-3 - DL	I-4	Total/NA	Water	410.4	311866
160-22310-4 - DL	D-3	Total/NA	Water	410.4	311866
160-22310-5 - DL	PZ-204A-SS	Total/NA	Water	410.4	311866
160-22310-6	PZ-204-SS	Total/NA	Water	410.4	311866
160-22310-7 - DL	LCS-5A	Total/NA	Water	410.4	311866
160-22310-8	LR-100	Total/NA	Water	410.4	311866
160-22310-9	PZ-206-SS	Total/NA	Water	410.4	311866
160-22310-10	PZ-207-AS	Total/NA	Water	410.4	311866
160-22310-11	S-53	Total/NA	Water	410.4	311866
MB 160-311866/3-A	Method Blank	Total/NA	Water	410.4	311866
LCS 160-311866/4-A	Lab Control Sample	Total/NA	Water	410.4	311866
160-22310-6 MS	PZ-204-SS	Total/NA	Water	410.4	311866
160-22310-6 DU	PZ-204-SS	Total/NA	Water	410.4	311866

Analysis Batch: 312153

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22310-2	S-5	Total/NA	Water	353.1 Preserved	
160-22310-3	I-4	Total/NA	Water	353.1 Preserved	
160-22310-4	D-3	Total/NA	Water	353.1 Preserved	
160-22310-5	PZ-204A-SS	Total/NA	Water	353.1 Preserved	
160-22310-6	PZ-204-SS	Total/NA	Water	353.1 Preserved	
160-22310-7	LCS-5A	Total/NA	Water	353.1 Preserved	
160-22310-8	LR-100	Total/NA	Water	353.1 Preserved	
160-22310-9	PZ-206-SS	Total/NA	Water	353.1 Preserved	
160-22310-10	PZ-207-AS	Total/NA	Water	353.1 Preserved	
160-22310-11	S-53	Total/NA	Water	353.1 Preserved	
MB 160-312153/13	Method Blank	Total/NA	Water	353.1 Preserved	
LCS 160-312153/14	Lab Control Sample	Total/NA	Water	353.1 Preserved	
160-22264-D-12 MS	Matrix Spike	Total/NA	Water	353.1 Preserved	
160-22310-9 MS	PZ-206-SS	Total/NA	Water	353.1 Preserved	
160-22264-D-12 DU	Duplicate	Total/NA	Water	353.1 Preserved	

General Chemistry (Continued)

Analysis Batch: 312154

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22310-2 - DL2	S-5	Total/NA	Water	350.1	
160-22310-3 - DL2	I-4	Total/NA	Water	350.1	
160-22310-4 - DL	D-3	Total/NA	Water	350.1	
160-22310-5	PZ-204A-SS	Total/NA	Water	350.1	
160-22310-6	PZ-204-SS	Total/NA	Water	350.1	
160-22310-7 - DL2	LCS-5A	Total/NA	Water	350.1	
160-22310-8 - DL2	LR-100	Total/NA	Water	350.1	
160-22310-9	PZ-206-SS	Total/NA	Water	350.1	
160-22310-10 - DL	PZ-207-AS	Total/NA	Water	350.1	
160-22310-11	S-53	Total/NA	Water	350.1	
MB 160-312154/11	Method Blank	Total/NA	Water	350.1	
LCS 160-312154/12	Lab Control Sample	Total/NA	Water	350.1	
160-22264-D-12 MS	Matrix Spike	Total/NA	Water	350.1	
160-22310-9 MS	PZ-206-SS	Total/NA	Water	350.1	
160-22264-D-12 DU	Duplicate	Total/NA	Water	350.1	

Rad

Prep Batch: 311965

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22310-2	S-5	Total/NA	Water	LSC_Dist_Susp	
160-22310-3	I-4	Total/NA	Water	LSC_Dist_Susp	
160-22310-4	D-3	Total/NA	Water	LSC_Dist_Susp	
160-22310-5	PZ-204A-SS	Total/NA	Water	LSC_Dist_Susp	
160-22310-6	PZ-204-SS	Total/NA	Water	LSC_Dist_Susp	
160-22310-7	LCS-5A	Total/NA	Water	LSC_Dist_Susp	
160-22310-8	LR-100	Total/NA	Water	LSC_Dist_Susp	
160-22310-9	PZ-206-SS	Total/NA	Water	LSC_Dist_Susp	
160-22310-10	PZ-207-AS	Total/NA	Water	LSC_Dist_Susp	
160-22310-11	S-53	Total/NA	Water	LSC_Dist_Susp	
MB 160-311965/1-A	Method Blank	Total/NA	Water	LSC_Dist_Susp	
LCS 160-311965/2-A	Lab Control Sample	Total/NA	Water	LSC_Dist_Susp	
160-22412-E-5-A MS	Matrix Spike	Total/NA	Water	LSC_Dist_Susp	
160-22412-E-5-B MSD	Matrix Spike Duplicate	Total/NA	Water	LSC_Dist_Susp	

Surrogate Summary

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22310-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	12DCE	TOL
Lab Sample ID	Client Sample ID	(71-139)	(80-121)	(76-121)	(80-129)
160-22310-1	TRIP BLANK	98	102	103	99
160-22310-2	S-5	98	98	94	99
160-22310-3	I-4	96	94	88	95
160-22310-4	D-3	97	97	92	99
160-22310-5	PZ-204A-SS	101	94	92	99
160-22310-6	PZ-204-SS	95	100	117	94
160-22310-6 MS	PZ-204-SS	99	92	87	123
160-22310-6 MSD	PZ-204-SS	103	98	99	97
160-22310-7	LCS-5A	102	99	92	102
160-22310-8	LR-100	99	103	109	98
160-22310-9	PZ-206-SS	110	111	112	97
160-22310-10	PZ-207-AS	102	99	95	99
160-22310-11	S-53	104	102	97	106
160-22310-11 MS	S-53	101	90	87	97
160-22310-11 MSD	S-53	99	89	88	95
LCS 160-309388/4	Lab Control Sample	102	99	104	100
LCS 160-309845/3	Lab Control Sample	107	92	85	104
LCSD 160-309388/5	Lab Control Sample Dup	100	99	103	97
LCSD 160-309845/4	Lab Control Sample Dup	105	88	79	104
MB 160-309388/7	Method Blank	97	100	105	101
MB 160-309845/8	Method Blank	101	96	89	101

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Tel: (314)298-8566

TestAmerica Job ID: 160-22117-1
Client Project/Site: Groundwater -2nd Quarter Sampling Event
Revision: 1

For:
Missouri Attorney General's Office
PO BOX 899
Jefferson City, Missouri 65102

Attn: Brenna McDonald

Authorized for release by:
6/14/2017 5:12:28 AM

Chenise Lambert-Sykes, Project Manager I
(314)298-8566
chenise.lambert-sykes@testamericainc.com

LINKS

Review your project results through TotalAccess

Have a Question? Ask The Expert

Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 160-22117-1

Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

Client: Missouri Attorney General's Office

Project: Groundwater - 2nd Quarter 2017 Sampling Event

Report Number: 160-22117-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica St. Louis attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results for Chemistry analyses are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header. All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy unless requested as wet weight by the client."

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

Rev1: Report has been revised to include metals and anions analytes which were excluded from the original report.

RECEIPT

The samples were received on 05/02/2017; the samples arrived in good condition, properly preserved and on ice. The temperature of the coolers at receipt was 3.6 C.

VOLATILE ORGANIC COMPOUNDS (GC MS)

Samples TRIP BLANK (160-22117-1), MO-3-SDR (160-22117-2), MO-3-SS (160-22117-3), MO-1-SS (160-22117-4), MO-1-SDR (160-22117-5) and MO-2-SD (160-22117-6) were analyzed for volatile organic compounds (GC MS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 05/10/2017.

Analytical Batch: 307897

The following compounds did not meet the minimum relative response factor limits in the continuing calibration verification (CCV) associated with batch 160-307897: Acetone and 2-Butanone (MEK). A low-level LOQV was analyzed at the reporting limit (5ug/L) and the affected analytes were detected. Target analytes recovering above the reporting limit will be qualified and reported. (CCVIS 160-307897/2)

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 160-307897 were outside control limits. Sample matrix

Job ID: 160-22117-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

interference and/or non-homogeneity are suspected because the associated laboratory control samples' (LCS/LCSD) recoveries were within acceptance limits. (160-22117-A-2 MS)

The matrix spike / matrix spike duplicate (MS/MSD) precision for analytical batch 160-307897 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits. (160-22117-A-2 MSD)

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

TOTAL METALS (ICP)
Samples MO-3-SDR (160-22117-2), MO-3-SS (160-22117-3), MO-1-SS (160-22117-4), MO-1-SDR (160-22117-5) and MO-2-SD (160-22117-6) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 05/04/2017 and analyzed on 05/11/2017.

Analytical Batch: 308370
Iron was detected in method blank MB 160-307263/1-A at a level exceeding the reporting limit. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

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

TOTAL MERCURY
Samples MO-3-SDR (160-22117-2), MO-3-SS (160-22117-3), MO-1-SS (160-22117-4), MO-1-SDR (160-22117-5) and MO-2-SD (160-22117-6) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 05/22/2017.

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

TOTAL DISSOLVED SOLIDS
Samples MO-3-SDR (160-22117-2), MO-3-SS (160-22117-3), MO-1-SS (160-22117-4), MO-1-SDR (160-22117-5) and MO-2-SD (160-22117-6) were analyzed for total dissolved solids in accordance with EPA Method 160.1. The samples were analyzed on 05/05/2017.

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

ANIONS, ION CHROMATOGRAPHY
Samples MO-3-SDR (160-22117-2), MO-3-SS (160-22117-3), MO-1-SS (160-22117-4), MO-1-SDR (160-22117-5) and MO-2-SD (160-22117-6) were analyzed for Anions, Ion Chromatography in accordance with EPA Method 300.0. The samples were analyzed on 05/06/2017, 05/08/2017 and 05/09/2017.

Analytical Batch: 307475
The following samples in Anion batch 160-307475 were diluted to bring the concentrations of Chloride within the calibration range: MO-3-SDR (160-22117-2), MO-3-SS (160-22117-3), MO-1-SS (160-22117-4), MO-1-SDR (160-22117-5) and MO-2-SD (160-22117-6). Elevated reporting limits (RLs) are provided.

Chloride was detected in method blank MB 160-307475/43 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

The following samples in Anion batch 160-312598 were re-analyzed out of 28 day holding time in this batch for Fluoride and Sulfate: MO-3-SDR (160-22117-2), MO-3-SS (160-22117-3), MO-1-SS (160-22117-4), MO-1-SDR (160-22117-5) and MO-2-SD (160-22117-6). The previous in-hold runs for Chloride were not reportable for Fluoride and Sulfate from the same dilutions, thus out of hold reanalysis was required. The samples were analyzed approximately 11 days outside of holding time, but within two times hold.

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

AMMONIA

Job ID: 160-22117-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

Samples MO-3-SDR (160-22117-2), MO-3-SS (160-22117-3), MO-1-SS (160-22117-4), MO-1-SDR (160-22117-5) and MO-2-SD (160-22117-6) were analyzed for ammonia in accordance with EPA Method 350.1. The samples were analyzed on 05/25/2017.

Analytical Batch: 310709
The following samples in Ammonia analytical batch 160-310709 were diluted to bring the concentration of the target analyte within the calibration range: MO-3-SDR (160-22117-2). Elevated reporting limits (RLs) are provided.

Ammonia was detected in method blank MB 160-310709/15 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

The following matrix spike (MS) recoveries for Ammonia analytical batch 160-310709 were outside control limits: (160-22117-G-2 MS ^10). Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

NITROGEN, NITRATE-NITRITE
Samples MO-3-SDR (160-22117-2), MO-3-SS (160-22117-3), MO-1-SS (160-22117-4), MO-1-SDR (160-22117-5) and MO-2-SD (160-22117-6) were analyzed for Nitrogen, Nitrate-Nitrite in accordance with Method 353.1 Preserved. The samples were analyzed on 05/23/2017.

Analytical Batch: 310165
Nitrate Nitrite as N was detected in method blank MB 160-310165/17 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

The following matrix spike (MS) recoveries for Nitrate-Nitrite analytical batch 160-310165 were outside control limits: (160-22117-G-2 MS). Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits, as well as the historical poor performance of matrix spikes from this client.

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

CHEMICAL OXYGEN DEMAND
Samples MO-3-SDR (160-22117-2), MO-3-SS (160-22117-3), MO-1-SS (160-22117-4), MO-1-SDR (160-22117-5) and MO-2-SD (160-22117-6) were analyzed for chemical oxygen demand in accordance with EPA Method 410.4. The samples were prepared and analyzed on 05/19/2017.

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

TOTAL ORGANIC CARBON
Samples MO-3-SDR (160-22117-2), MO-3-SS (160-22117-3), MO-1-SS (160-22117-4), MO-1-SDR (160-22117-5) and MO-2-SD (160-22117-6) were analyzed for total organic carbon in accordance with EPA Method 415.1. The samples were analyzed on 05/22/2017.

Analytical Batch: 310102
The following samples in TOC batch 160-310102 were diluted to bring the concentrations of the target analyte within the calibration range: MO-3-SDR (160-22117-2), MO-1-SS (160-22117-4) and MO-1-SDR (160-22117-5). 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.

TRITIUM, TOTAL (LSC)
Samples MO-3-SDR (160-22117-2), MO-3-SS (160-22117-3), MO-1-SS (160-22117-4), MO-1-SDR (160-22117-5) and MO-2-SD (160-22117-6) were analyzed for Tritium, Total (LSC) in accordance with USEPA 906.0. The samples were prepared on 05/30/2017 and analyzed on 05/31/2017.

Prep Batch: 311188

Job ID: 160-22117-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

Insufficient sample provided to analyze the normal aliquot of 100mL the sample was reduced to 50mL for job 160-22141 sample 1, 1 DU, 2, 2 MS. Sample 160-22117-2 was reduced to 45mL and sample 160-22117-3 was reduced to 30mL. MO-3-SDR (160-22117-2) and MO-3-SS (160-22117-3)

The sample turned slightly purple due to analyst error. More potassium permanganate was added than was required. MO-3-SS (160-22117-3)

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

13715 Rider Trail North
Earth City, MO 63045
Phone (314) 298-8566 Fax (314) 298-8757

Chain of Custody Record

TestAmerica
THE LEADER IN ENVIRONMENTAL TESTING

Client Information	Sampler: Jessie Goodwin	Lab PM: Lambert-Sykes, Chenise Y	Carrier Tracking No(s):	COC No: 160-5226-2622.1
Client Contact: Brenna McDonald	Phone: 314-997-7440	E-Mail: chenise.lambert-sykes@testamericainc.com		Page: Page 1 of 1
Company: Missouri Attorney General's Office				Job #:
Address: PO BOX 899	Due Date Requested: Routine			
City: Jefferson City	TAT Requested (days):			
State, Zip: MO, 65102				
Phone: 573-368-2163(Tel)	PO #: Purchase Order not required			
Email: brenna.mcdonald@dnr.mo.gov	WO #:			
Project Name: Groundwater - May 2017 Sampling Event	Project #: 16006007			
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	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)	906.0 - Tritium	350.1, 353.1_Pres, 365.2, 410.4_LL	160.1_Calcd, 300_ORGFM_28D	6010C - Metals	415.1 - TOC	8260C - (MOD) OLM 4.2	Iodide	Total Number of containers	Special Instructions/Note:
			Preservation Code:				N	S	N	D	S	A			
Trip Blank	5-1-2017	0900		Water								2			
MO-3-SDR	5-1-2017	1140	G	Water	N	N	1	1	1	1	1	3	1		
MO-3-SS	5-1-2017	1430	G	Water	N	N	1	1	1	1	1	3	1		
MO-1-SS	5-2-2017	0900	G	Water	N	N	1	1	1	1	1	3	1		
MO-1-SDR	5-2-2017	1145	G	Water	N	N	1	1	1	1	1	3	1		
MO-2-SD	5-2-2017	1415	G	W	N	N	1	1	1	1	1	3	1		

160-22117 Chain of Custody

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:

	Date/Time	Company		Date/Time	Company
Relinquished by: Jessie Goodwin	5/2/2017 1451	Test Technology	Received by: Patel Patel	5/2/2017 1451	MGS-DNR
Relinquished by: Patel Patel	5/2/2017 1524	MGS-DNR	Received by:	5/2/17 1524	TA
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:

Login Sample Receipt Checklist

Client: Missouri Attorney General's Office

Job Number: 160-22117-1

Login Number: 22117
List Number: 1
Creator: Clarke, Jill C

List Source: TestAmerica St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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 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	

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F2	MS/MSD RPD exceeds control limits
F1	MS and/or MSD Recovery is outside acceptance limits.

HPLC/IC

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
H	Sample was prepped or analyzed beyond the specified holding time
E	Result exceeded calibration range.
F1	MS and/or MSD Recovery is outside acceptance limits.

Metals

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
^	ICV,CCV,ICB,CCB, ISA, ISB, CRI, CRA, DLCK or MRL standard: Instrument related QC is outside acceptance limits.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
B	Compound was found in the blank and sample.
F1	MS and/or MSD Recovery is outside acceptance limits.
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

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

Glossary (Continued)

Abbreviation	These commonly used abbreviations may or may not be present in this report.
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)

Method Summary

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22117-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL SL
300.0	Anions, Ion Chromatography	MCAWW	TAL SL
6010C	Metals (ICP)	SW846	TAL SL
7470A	Mercury (CVAA)	SW846	TAL SL
160.1	Solids, Total Dissolved (TDS)	MCAWW	TAL SL
350.1	Nitrogen, Ammonia	MCAWW	TAL SL
353.1 Preserved	Nitrogen, Nitrate-Nitrite	MCAWW	TAL SL
410.4	COD	MCAWW	TAL SL
415.1	TOC	MCAWW	TAL SL
906.0	Tritium, Total (LSC)	EPA	TAL SL

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.

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

Laboratory References:

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22117-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-22117-1	TRIP BLANK	Water	05/01/17 09:00	05/02/17 15:24
160-22117-2	MO-3-SDR	Water	05/01/17 11:40	05/02/17 15:24
160-22117-3	MO-3-SS	Water	05/01/17 14:30	05/02/17 15:24
160-22117-4	MO-1-SS	Water	05/02/17 09:00	05/02/17 15:24
160-22117-5	MO-1-SDR	Water	05/02/17 11:45	05/02/17 15:24
160-22117-6	MO-2-SD	Water	05/02/17 14:15	05/02/17 15:24

Detection Summary

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22117-1

Client Sample ID: TRIP BLANK — Lab Sample ID: 160-22117-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl bromide	0.66	J	10	0.40	ug/L	1		8260C	Total/NA

Client Sample ID: MO-3-SDR — Lab Sample ID: 160-22117-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	2.2	J	5.0	0.25	ug/L	1		8260C	Total/NA
Methyl bromide	0.68	J F2	10	0.40	ug/L	1		8260C	Total/NA
Fluoride	1.2	H	0.10	0.026	mg/L	1		300.0	Total/NA
Iodide	0.44	J	1.0	0.10	mg/L	1		300.0	Total/NA
Chloride - DL	87	B	5.0	0.50	mg/L	25		300.0	Total/NA
Sulfate - DL	92	H	13	1.3	mg/L	25		300.0	Total/NA
Iron	1300	B	100	30	ug/L	1		6010C	Total/NA
Barium	230		50	15	ug/L	1		6010C	Total/NA
Boron	170		100	25	ug/L	1		6010C	Total/NA
CaHard	230000		5000	1500	ug/L	2		6010C	Total/NA
Calcium	92000		2000	600	ug/L	2		6010C	Total/NA
Magnesium	48		1.0	0.30	mg/L	1		6010C	Total/NA
Manganese	1100		15	4.0	ug/L	1		6010C	Total/NA
MgHard	200000		4100	1200	ug/L	1		6010C	Total/NA
Nickel	0.012	J	0.040	0.010	mg/L	1		6010C	Total/NA
Sodium	130000		2000	600	ug/L	2		6010C	Total/NA
Total Hardness	440000		6600	2000	ug/L	1		6010C	Total/NA
Total Dissolved Solids (TDS)	780		5.0	3.5	mg/L	1		160.1	Total/NA
Nitrate Nitrite as N	24	J B F1	50	22	ug/L	1		353.1 Preserved	Total/NA
Chemical Oxygen Demand	60		5.0	2.4	mg/L	1		410.4	Total/NA
Ammonia - DL	2900	B F1	500	220	ug/L	10		350.1	Total/NA
Total Organic Carbon - DL	14		5.0	3.6	mg/L	5		415.1	Total/NA

Client Sample ID: MO-3-SS — Lab Sample ID: 160-22117-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.45	J	5.0	0.25	ug/L	1		8260C	Total/NA
Fluoride	1.8	H	0.10	0.026	mg/L	1		300.0	Total/NA
Iodide	0.11	J	1.0	0.10	mg/L	1		300.0	Total/NA
Chloride - DL	24	B	5.0	0.50	mg/L	25		300.0	Total/NA
Sulfate - DL	42	H	13	1.3	mg/L	25		300.0	Total/NA
Iron	2300	B	100	30	ug/L	1		6010C	Total/NA
Arsenic	7.6	J	10	4.0	ug/L	1		6010C	Total/NA
Barium	110		50	15	ug/L	1		6010C	Total/NA
Boron	160		100	25	ug/L	1		6010C	Total/NA
CaHard	200000		2500	750	ug/L	1		6010C	Total/NA
Calcium	81000		1000	300	ug/L	1		6010C	Total/NA
Magnesium	53		1.0	0.30	mg/L	1		6010C	Total/NA
Manganese	270		15	4.0	ug/L	1		6010C	Total/NA
MgHard	220000		4100	1200	ug/L	1		6010C	Total/NA
Sodium	53000		1000	300	ug/L	1		6010C	Total/NA
Total Hardness	430000		6600	2000	ug/L	1		6010C	Total/NA
Total Dissolved Solids (TDS)	550		5.0	3.5	mg/L	1		160.1	Total/NA
Ammonia	1300	B	50	22	ug/L	1		350.1	Total/NA
Chemical Oxygen Demand	9.0		5.0	2.4	mg/L	1		410.4	Total/NA

This Detection Summary does not include radiochemical test results.

TestAmerica St. Louis

Detection Summary

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22117-1

Client Sample ID: MO-3-SS (Continued) — Lab Sample ID: 160-22117-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Organic Carbon	5.6		1.0	0.72	mg/L	1		415.1	Total/NA

Client Sample ID: MO-1-SS — Lab Sample ID: 160-22117-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.62	J	5.0	0.25	ug/L	1		8260C	Total/NA
Carbon disulfide	0.87	J	5.0	0.37	ug/L	1		8260C	Total/NA
Methyl bromide	0.51	J	10	0.40	ug/L	1		8260C	Total/NA
Iodide	0.65	J	1.0	0.10	mg/L	1		300.0	Total/NA
Chloride - DL	39	B	5.0	0.50	mg/L	25		300.0	Total/NA
Fluoride - DL	1.3	H	0.20	0.052	mg/L	2		300.0	Total/NA
Sulfate - DL2	230	H	25	2.5	mg/L	50		300.0	Total/NA
Iron	200	B	100	30	ug/L	1		6010C	Total/NA
Arsenic	8.7	J	10	4.0	ug/L	1		6010C	Total/NA
Barium	53		50	15	ug/L	1		6010C	Total/NA
Boron	400		100	25	ug/L	1		6010C	Total/NA
CaHard	120000		2500	750	ug/L	1		6010C	Total/NA
Calcium	50000		1000	300	ug/L	1		6010C	Total/NA
Chromium	4.2	J	10	3.0	ug/L	1		6010C	Total/NA
Magnesium	28		1.0	0.30	mg/L	1		6010C	Total/NA
Manganese	340		15	4.0	ug/L	1		6010C	Total/NA
MgHard	120000		4100	1200	ug/L	1		6010C	Total/NA
Sodium	240000		5000	1500	ug/L	5		6010C	Total/NA
Total Hardness	250000		6600	2000	ug/L	1		6010C	Total/NA
Total Dissolved Solids (TDS)	960		5.0	3.5	mg/L	1		160.1	Total/NA
Ammonia	870	B	50	22	ug/L	1		350.1	Total/NA
Nitrate Nitrite as N	32	J B	50	22	ug/L	1		353.1 Preserved	Total/NA
Chemical Oxygen Demand	49		5.0	2.4	mg/L	1		410.4	Total/NA
Total Organic Carbon - DL	19		5.0	3.6	mg/L	5		415.1	Total/NA

Client Sample ID: MO-1-SDR — Lab Sample ID: 160-22117-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Carbon disulfide	0.85	J	5.0	0.37	ug/L	1		8260C	Total/NA
Methyl iodide	4.2	J	5.0	1.5	ug/L	1		8260C	Total/NA
Fluoride	0.57	H	0.10	0.026	mg/L	1		300.0	Total/NA
Iodide	0.22	J	1.0	0.10	mg/L	1		300.0	Total/NA
Chloride - DL	11	B	5.0	0.50	mg/L	25		300.0	Total/NA
Sulfate - DL	38	H	13	1.3	mg/L	25		300.0	Total/NA
Iron	240	B	100	30	ug/L	1		6010C	Total/NA
Barium	170		50	15	ug/L	1		6010C	Total/NA
Boron	210		100	25	ug/L	1		6010C	Total/NA
CaHard	200000		2500	750	ug/L	1		6010C	Total/NA
Calcium	80000		1000	300	ug/L	1		6010C	Total/NA
Magnesium	36		1.0	0.30	mg/L	1		6010C	Total/NA
Manganese	280		15	4.0	ug/L	1		6010C	Total/NA
MgHard	150000		4100	1200	ug/L	1		6010C	Total/NA
Phosphorus	100	J	250	75	ug/L	1		6010C	Total/NA
Sodium	39000		1000	300	ug/L	1		6010C	Total/NA
Total Hardness	360000		6600	2000	ug/L	1		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22117-1

Client Sample ID: MO-1-SDR (Continued) — Lab Sample ID: 160-22117-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Dissolved Solids (TDS)	450		5.0	3.5	mg/L	1		160.1	Total/NA
Ammonia	170	B	50	22	ug/L	1		350.1	Total/NA
Nitrate Nitrite as N	30	J B	50	22	ug/L	1		353.1 Preserved	Total/NA
Chemical Oxygen Demand	6.0		5.0	2.4	mg/L	1		410.4	Total/NA
Total Organic Carbon - DL	6.5		2.0	1.4	mg/L	2		415.1	Total/NA

Client Sample ID: MO-2-SD — Lab Sample ID: 160-22117-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.25	J	5.0	0.25	ug/L	1		8260C	Total/NA
Carbon disulfide	0.45	J	5.0	0.37	ug/L	1		8260C	Total/NA
Fluoride	1.6	H F1	0.10	0.026	mg/L	1		300.0	Total/NA
Iodide	0.11	J	1.0	0.10	mg/L	1		300.0	Total/NA
Chloride - DL	20	B	5.0	0.50	mg/L	25		300.0	Total/NA
Sulfate - DL	44	H	13	1.3	mg/L	25		300.0	Total/NA
Iron	460	B	100	30	ug/L	1		6010C	Total/NA
Barium	130		50	15	ug/L	1		6010C	Total/NA
Boron	240		100	25	ug/L	1		6010C	Total/NA
CaHard	160000		2500	750	ug/L	1		6010C	Total/NA
Calcium	65000		1000	300	ug/L	1		6010C	Total/NA
Magnesium	38		1.0	0.30	mg/L	1		6010C	Total/NA
Manganese	540		15	4.0	ug/L	1		6010C	Total/NA
MgHard	160000		4100	1200	ug/L	1		6010C	Total/NA
Sodium	78000		1000	300	ug/L	1		6010C	Total/NA
Total Hardness	340000		6600	2000	ug/L	1		6010C	Total/NA
Total Dissolved Solids (TDS)	500		5.0	3.5	mg/L	1		160.1	Total/NA
Ammonia	1500	B	50	22	ug/L	1		350.1	Total/NA
Nitrate Nitrite as N	22	J B	50	22	ug/L	1		353.1 Preserved	Total/NA
Chemical Oxygen Demand	5.0		5.0	2.4	mg/L	1		410.4	Total/NA
Total Organic Carbon	4.1		1.0	0.72	mg/L	1		415.1	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: TRIP BLANK

Date Collected: 05/01/17 09:00
Date Received: 05/02/17 15:24

Lab Sample ID: 160-22117-1

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/10/17 02:51	1
Acrylonitrile	ND		50	1.7	ug/L			05/10/17 02:51	1
Benzene	ND		5.0	0.25	ug/L			05/10/17 02:51	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/10/17 02:51	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/10/17 02:51	1
Bromoform	ND		5.0	0.37	ug/L			05/10/17 02:51	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/10/17 02:51	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/10/17 02:51	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/10/17 02:51	1
Chloroethane	ND		10	0.38	ug/L			05/10/17 02:51	1
Chloroform	ND		5.0	0.15	ug/L			05/10/17 02:51	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/10/17 02:51	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/10/17 02:51	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/10/17 02:51	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/10/17 02:51	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/10/17 02:51	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/10/17 02:51	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/10/17 02:51	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/10/17 02:51	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/10/17 02:51	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/10/17 02:51	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/10/17 02:51	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/10/17 02:51	1
2-Hexanone	ND		20	0.59	ug/L			05/10/17 02:51	1
Methyl bromide	**0.66**	**J**	10	0.40	ug/L			05/10/17 02:51	1
Methyl chloride	ND		10	0.55	ug/L			05/10/17 02:51	1
Methylene bromide	ND		5.0	0.41	ug/L			05/10/17 02:51	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/10/17 02:51	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/10/17 02:51	1
Methyl iodide	ND		5.0	1.5	ug/L			05/10/17 02:51	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/10/17 02:51	1
Styrene	ND		5.0	0.35	ug/L			05/10/17 02:51	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/10/17 02:51	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/10/17 02:51	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/10/17 02:51	1
Toluene	ND		5.0	1.0	ug/L			05/10/17 02:51	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/10/17 02:51	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/10/17 02:51	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/10/17 02:51	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/10/17 02:51	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/10/17 02:51	1
Trichloroethene	ND		5.0	0.29	ug/L			05/10/17 02:51	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/10/17 02:51	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/10/17 02:51	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/10/17 02:51	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/10/17 02:51	1
Xylenes, Total	ND		10	0.85	ug/L			05/10/17 02:51	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 160-22117-1

Date Collected: 05/01/17 09:00

Matrix: Water

Date Received: 05/02/17 15:24

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*71 - 139*		*05/10/17 02:51*	*1*
Dibromofluoromethane (Surr)	*94*		*80 - 121*		*05/10/17 02:51*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*76 - 121*		*05/10/17 02:51*	*1*
Toluene-d8 (Surr)	*104*		*80 - 129*		*05/10/17 02:51*	*1*

Client Sample ID: MO-3-SDR

Lab Sample ID: 160-22117-2

Date Collected: 05/01/17 11:40

Matrix: Water

Date Received: 05/02/17 15:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/10/17 03:16	1
Acrylonitrile	ND		50	1.7	ug/L			05/10/17 03:16	1
Benzene	**2.2**	**J**	5.0	0.25	ug/L			05/10/17 03:16	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/10/17 03:16	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/10/17 03:16	1
Bromoform	ND		5.0	0.37	ug/L			05/10/17 03:16	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/10/17 03:16	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/10/17 03:16	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/10/17 03:16	1
Chloroethane	ND		10	0.38	ug/L			05/10/17 03:16	1
Chloroform	ND		5.0	0.15	ug/L			05/10/17 03:16	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/10/17 03:16	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/10/17 03:16	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/10/17 03:16	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/10/17 03:16	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/10/17 03:16	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/10/17 03:16	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/10/17 03:16	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/10/17 03:16	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/10/17 03:16	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/10/17 03:16	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/10/17 03:16	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/10/17 03:16	1
2-Hexanone	ND		20	0.59	ug/L			05/10/17 03:16	1
Methyl bromide	**0.68**	**J F2**	10	0.40	ug/L			05/10/17 03:16	1
Methyl chloride	ND		10	0.55	ug/L			05/10/17 03:16	1
Methylene bromide	ND		5.0	0.41	ug/L			05/10/17 03:16	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/10/17 03:16	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/10/17 03:16	1
Methyl iodide	ND	F1 F2	5.0	1.5	ug/L			05/10/17 03:16	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/10/17 03:16	1
Styrene	ND		5.0	0.35	ug/L			05/10/17 03:16	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/10/17 03:16	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/10/17 03:16	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/10/17 03:16	1
Toluene	ND		5.0	1.0	ug/L			05/10/17 03:16	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/10/17 03:16	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/10/17 03:16	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/10/17 03:16	1

Client Sample ID: MO-3-SDR
Date Collected: 05/01/17 11:40
Date Received: 05/02/17 15:24

Lab Sample ID: 160-22117-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/10/17 03:16	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/10/17 03:16	1
Trichloroethene	ND		5.0	0.29	ug/L			05/10/17 03:16	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/10/17 03:16	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/10/17 03:16	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/10/17 03:16	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/10/17 03:16	1
Xylenes, Total	ND		10	0.85	ug/L			05/10/17 03:16	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*118*		*71 - 139*		*05/10/17 03:16*	*1*
Dibromofluoromethane (Surr)	*100*		*80 - 121*		*05/10/17 03:16*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*76 - 121*		*05/10/17 03:16*	*1*
Toluene-d8 (Surr)	*106*		*80 - 129*		*05/10/17 03:16*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**1.2**	**H**	0.10	0.026	mg/L			06/08/17 23:15	1
Iodide	**0.44**	**J**	1.0	0.10	mg/L			05/08/17 22:04	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**87**	**B**	5.0	0.50	mg/L			05/06/17 04:29	25
Sulfate	**92**	**H**	13	1.3	mg/L			06/08/17 23:30	25

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	3.0	ug/L		05/04/17 13:22	05/11/17 19:00	1
Iron	**1300**	**B**	100	30	ug/L		05/04/17 13:22	05/11/17 19:00	1
Arsenic	ND		10	4.0	ug/L		05/04/17 13:22	05/11/17 19:00	1
Barium	**230**		50	15	ug/L		05/04/17 13:22	05/11/17 19:00	1
Beryllium	ND		5.0	1.5	ug/L		05/04/17 13:22	05/11/17 19:00	1
Boron	**170**		100	25	ug/L		05/04/17 13:22	05/11/17 19:00	1
Cadmium	ND		5.0	1.5	ug/L		05/04/17 13:22	05/11/17 19:00	1
CaHard	**230000**		5000	1500	ug/L		05/04/17 13:22	06/05/17 18:07	2
Calcium	**92000**		2000	600	ug/L		05/04/17 13:22	06/05/17 18:07	2
Chromium	ND		10	3.0	ug/L		05/04/17 13:22	05/11/17 19:00	1
Cobalt	ND		50	15	ug/L		05/04/17 13:22	05/11/17 19:00	1
Copper	ND		25	7.0	ug/L		05/04/17 13:22	05/11/17 19:00	1
Lead	ND		10	3.0	ug/L		05/04/17 13:22	05/11/17 19:00	1
Magnesium	**48**		1.0	0.30	mg/L		05/04/17 13:22	05/11/17 19:00	1
Manganese	**1100**		15	4.0	ug/L		05/04/17 13:22	05/11/17 19:00	1
MgHard	**200000**		4100	1200	ug/L		05/04/17 13:22	05/11/17 19:00	1
Nickel	**0.012**	**J**	0.040	0.010	mg/L		05/04/17 13:22	05/11/17 19:00	1
Phosphorus	ND		250	75	ug/L		05/04/17 13:22	05/11/17 19:00	1
Selenium	ND	^	15	8.0	ug/L		05/04/17 13:22	05/11/17 19:00	1
Silver	ND		10	3.0	ug/L		05/04/17 13:22	05/11/17 19:00	1
Sodium	**130000**		2000	600	ug/L		05/04/17 13:22	06/05/17 18:07	2
Thallium	ND	^	20	5.0	ug/L		05/04/17 13:22	05/11/17 19:00	1
Total Hardness	**440000**		6600	2000	ug/L		05/04/17 13:22	05/11/17 19:00	1

Client Sample ID: MO-3-SDR

Lab Sample ID: 160-22117-2
Date Collected: 05/01/17 11:40
Matrix: Water
Date Received: 05/02/17 15:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Vanadium	ND		50	25	ug/L		05/04/17 13:22	05/11/17 19:00	1
Zinc	ND		20	6.0	ug/L		05/04/17 13:22	05/11/17 19:00	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		05/22/17 09:55	05/22/17 19:21	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	780		5.0	3.5	mg/L			05/05/17 07:13	1
Nitrate Nitrite as N	24	J B F1	50	22	ug/L			05/23/17 16:29	1
Chemical Oxygen Demand	60		5.0	2.4	mg/L		05/19/17 10:13	05/19/17 14:15	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	2900	B F1	500	220	ug/L			05/25/17 19:11	10
Total Organic Carbon	14		5.0	3.6	mg/L			05/22/17 16:38	5

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	468		186	191	500	259	pCi/L	05/30/17 19:12	05/31/17 15:01	1

Client Sample ID: MO-3-SS

Lab Sample ID: 160-22117-3
Date Collected: 05/01/17 14:30
Matrix: Water
Date Received: 05/02/17 15:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/10/17 03:42	1
Acrylonitrile	ND		50	1.7	ug/L			05/10/17 03:42	1
Benzene	0.45	J	5.0	0.25	ug/L			05/10/17 03:42	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/10/17 03:42	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/10/17 03:42	1
Bromoform	ND		5.0	0.37	ug/L			05/10/17 03:42	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/10/17 03:42	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/10/17 03:42	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/10/17 03:42	1
Chloroethane	ND		10	0.38	ug/L			05/10/17 03:42	1
Chloroform	ND		5.0	0.15	ug/L			05/10/17 03:42	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/10/17 03:42	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/10/17 03:42	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/10/17 03:42	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/10/17 03:42	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/10/17 03:42	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/10/17 03:42	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/10/17 03:42	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/10/17 03:42	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/10/17 03:42	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/10/17 03:42	1

Client Sample ID: MO-3-SS
Date Collected: 05/01/17 14:30
Date Received: 05/02/17 15:24

Lab Sample ID: 160-22117-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/10/17 03:42	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/10/17 03:42	1
2-Hexanone	ND		20	0.59	ug/L			05/10/17 03:42	1
Methyl bromide	ND		10	0.40	ug/L			05/10/17 03:42	1
Methyl chloride	ND		10	0.55	ug/L			05/10/17 03:42	1
Methylene bromide	ND		5.0	0.41	ug/L			05/10/17 03:42	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/10/17 03:42	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/10/17 03:42	1
Methyl iodide	ND		5.0	1.5	ug/L			05/10/17 03:42	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/10/17 03:42	1
Styrene	ND		5.0	0.35	ug/L			05/10/17 03:42	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/10/17 03:42	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/10/17 03:42	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/10/17 03:42	1
Toluene	ND		5.0	1.0	ug/L			05/10/17 03:42	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/10/17 03:42	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/10/17 03:42	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/10/17 03:42	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/10/17 03:42	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/10/17 03:42	1
Trichloroethene	ND		5.0	0.29	ug/L			05/10/17 03:42	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/10/17 03:42	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/10/17 03:42	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/10/17 03:42	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/10/17 03:42	1
Xylenes, Total	ND		10	0.85	ug/L			05/10/17 03:42	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*126*		*71 - 139*		*05/10/17 03:42*	*1*
Dibromofluoromethane (Surr)	*109*		*80 - 121*		*05/10/17 03:42*	*1*
1,2-Dichloroethane-d4 (Surr)	*110*		*76 - 121*		*05/10/17 03:42*	*1*
Toluene-d8 (Surr)	*113*		*80 - 129*		*05/10/17 03:42*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**1.8**	**H**	0.10	0.026	mg/L			06/09/17 00:16	1
Iodide	**0.11**	**J**	1.0	0.10	mg/L			05/08/17 23:59	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**24**	**B**	5.0	0.50	mg/L			05/06/17 05:19	25
Sulfate	**42**	**H**	13	1.3	mg/L			06/09/17 00:32	25

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	3.0	ug/L		05/04/17 13:22	05/11/17 19:17	1
Iron	**2300**	**B**	100	30	ug/L		05/04/17 13:22	05/11/17 19:17	1
Arsenic	**7.6**	**J**	10	4.0	ug/L		05/04/17 13:22	05/11/17 19:17	1
Barium	**110**		50	15	ug/L		05/04/17 13:22	05/11/17 19:17	1
Beryllium	ND		5.0	1.5	ug/L		05/04/17 13:22	05/11/17 19:17	1

Client Sample ID: MO-3-SS

Date Collected: 05/01/17 14:30
Date Received: 05/02/17 15:24

Lab Sample ID: 160-22117-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Boron	**160**		100	25	ug/L		05/04/17 13:22	05/11/17 19:17	1
Cadmium	ND		5.0	1.5	ug/L		05/04/17 13:22	05/11/17 19:17	1
CaHard	**200000**		2500	750	ug/L		05/04/17 13:22	06/05/17 18:39	1
Calcium	**81000**		1000	300	ug/L		05/04/17 13:22	06/05/17 18:39	1
Chromium	ND		10	3.0	ug/L		05/04/17 13:22	05/11/17 19:17	1
Cobalt	ND		50	15	ug/L		05/04/17 13:22	05/11/17 19:17	1
Copper	ND		25	7.0	ug/L		05/04/17 13:22	05/11/17 19:17	1
Lead	ND		10	3.0	ug/L		05/04/17 13:22	05/11/17 19:17	1
Magnesium	**53**		1.0	0.30	mg/L		05/04/17 13:22	05/11/17 19:17	1
Manganese	**270**		15	4.0	ug/L		05/04/17 13:22	05/11/17 19:17	1
MgHard	**220000**		4100	1200	ug/L		05/04/17 13:22	05/11/17 19:17	1
Nickel	ND		0.040	0.010	mg/L		05/04/17 13:22	05/11/17 19:17	1
Phosphorus	ND		250	75	ug/L		05/04/17 13:22	05/11/17 19:17	1
Selenium	ND	^	15	8.0	ug/L		05/04/17 13:22	05/11/17 19:17	1
Silver	ND		10	3.0	ug/L		05/04/17 13:22	05/11/17 19:17	1
Sodium	**53000**		1000	300	ug/L		05/04/17 13:22	05/11/17 19:17	1
Thallium	ND	^	20	5.0	ug/L		05/04/17 13:22	05/11/17 19:17	1
Total Hardness	**430000**		6600	2000	ug/L		05/04/17 13:22	05/11/17 19:17	1
Vanadium	ND		50	25	ug/L		05/04/17 13:22	05/11/17 19:17	1
Zinc	ND		20	6.0	ug/L		05/04/17 13:22	05/11/17 19:17	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		05/22/17 09:55	05/22/17 19:24	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**550**		5.0	3.5	mg/L			05/05/17 07:13	1
Ammonia	**1300**	**B**	50	22	ug/L			05/25/17 16:58	1
Nitrate Nitrite as N	ND		50	22	ug/L			05/23/17 16:45	1
Chemical Oxygen Demand	**9.0**		5.0	2.4	mg/L		05/19/17 10:13	05/19/17 14:15	1
Total Organic Carbon	**5.6**		1.0	0.72	mg/L			05/22/17 17:17	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	75.2	U	158	158	500	276	pCi/L	05/30/17 19:12	05/31/17 15:24	1

Client Sample ID: MO-1-SS

Date Collected: 05/02/17 09:00
Date Received: 05/02/17 15:24

Lab Sample ID: 160-22117-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/10/17 04:07	1
Acrylonitrile	ND		50	1.7	ug/L			05/10/17 04:07	1
Benzene	**0.62**	**J**	5.0	0.25	ug/L			05/10/17 04:07	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/10/17 04:07	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/10/17 04:07	1

Client Sample ID: MO-1-SS
Date Collected: 05/02/17 09:00
Date Received: 05/02/17 15:24

Lab Sample ID: 160-22117-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromoform	ND		5.0	0.37	ug/L			05/10/17 04:07	1
Carbon disulfide	**0.87**	**J**	5.0	0.37	ug/L			05/10/17 04:07	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/10/17 04:07	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/10/17 04:07	1
Chloroethane	ND		10	0.38	ug/L			05/10/17 04:07	1
Chloroform	ND		5.0	0.15	ug/L			05/10/17 04:07	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/10/17 04:07	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/10/17 04:07	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/10/17 04:07	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/10/17 04:07	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/10/17 04:07	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/10/17 04:07	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/10/17 04:07	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/10/17 04:07	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/10/17 04:07	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/10/17 04:07	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/10/17 04:07	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/10/17 04:07	1
2-Hexanone	ND		20	0.59	ug/L			05/10/17 04:07	1
Methyl bromide	**0.51**	**J**	10	0.40	ug/L			05/10/17 04:07	1
Methyl chloride	ND		10	0.55	ug/L			05/10/17 04:07	1
Methylene bromide	ND		5.0	0.41	ug/L			05/10/17 04:07	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/10/17 04:07	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/10/17 04:07	1
Methyl iodide	ND		5.0	1.5	ug/L			05/10/17 04:07	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/10/17 04:07	1
Styrene	ND		5.0	0.35	ug/L			05/10/17 04:07	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/10/17 04:07	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/10/17 04:07	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/10/17 04:07	1
Toluene	ND		5.0	1.0	ug/L			05/10/17 04:07	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/10/17 04:07	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/10/17 04:07	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/10/17 04:07	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/10/17 04:07	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/10/17 04:07	1
Trichloroethene	ND		5.0	0.29	ug/L			05/10/17 04:07	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/10/17 04:07	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/10/17 04:07	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/10/17 04:07	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/10/17 04:07	1
Xylenes, Total	ND		10	0.85	ug/L			05/10/17 04:07	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*120*		*71 - 139*		*05/10/17 04:07*	*1*
Dibromofluoromethane (Surr)	*105*		*80 - 121*		*05/10/17 04:07*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*76 - 121*		*05/10/17 04:07*	*1*
Toluene-d8 (Surr)	*110*		*80 - 129*		*05/10/17 04:07*	*1*

Client Sample ID: MO-1-SS
Date Collected: 05/02/17 09:00
Date Received: 05/02/17 15:24

Lab Sample ID: 160-22117-4
Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	0.65	J	1.0	0.10	mg/L			05/09/17 00:28	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	39	B	5.0	0.50	mg/L			05/06/17 05:35	25
Fluoride	1.3	H	0.20	0.052	mg/L			06/09/17 00:47	2

Method: 300.0 - Anions, Ion Chromatography - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sulfate	230	H	25	2.5	mg/L			06/09/17 01:02	50

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	3.0	ug/L		05/04/17 13:22	05/11/17 19:22	1
Iron	200	B	100	30	ug/L		05/04/17 13:22	05/11/17 19:22	1
Arsenic	8.7	J	10	4.0	ug/L		05/04/17 13:22	05/11/17 19:22	1
Barium	53		50	15	ug/L		05/04/17 13:22	05/11/17 19:22	1
Beryllium	ND		5.0	1.5	ug/L		05/04/17 13:22	05/11/17 19:22	1
Boron	400		100	25	ug/L		05/04/17 13:22	05/11/17 19:22	1
Cadmium	ND		5.0	1.5	ug/L		05/04/17 13:22	05/11/17 19:22	1
CaHard	120000		2500	750	ug/L		05/04/17 13:22	06/05/17 18:43	1
Calcium	50000		1000	300	ug/L		05/04/17 13:22	06/05/17 18:43	1
Chromium	4.2	J	10	3.0	ug/L		05/04/17 13:22	05/11/17 19:22	1
Cobalt	ND		50	15	ug/L		05/04/17 13:22	05/11/17 19:22	1
Copper	ND		25	7.0	ug/L		05/04/17 13:22	05/11/17 19:22	1
Lead	ND		10	3.0	ug/L		05/04/17 13:22	05/11/17 19:22	1
Magnesium	28		1.0	0.30	mg/L		05/04/17 13:22	05/11/17 19:22	1
Manganese	340		15	4.0	ug/L		05/04/17 13:22	05/11/17 19:22	1
MgHard	120000		4100	1200	ug/L		05/04/17 13:22	05/11/17 19:22	1
Nickel	ND		0.040	0.010	mg/L		05/04/17 13:22	05/11/17 19:22	1
Phosphorus	ND		250	75	ug/L		05/04/17 13:22	05/11/17 19:22	1
Selenium	ND	^	15	8.0	ug/L		05/04/17 13:22	05/11/17 19:22	1
Silver	ND		10	3.0	ug/L		05/04/17 13:22	05/11/17 19:22	1
Sodium	240000		5000	1500	ug/L		05/04/17 13:22	06/05/17 18:57	5
Thallium	ND	^	20	5.0	ug/L		05/04/17 13:22	05/11/17 19:22	1
Total Hardness	250000		6600	2000	ug/L		05/04/17 13:22	05/11/17 19:22	1
Vanadium	ND		50	25	ug/L		05/04/17 13:22	05/11/17 19:22	1
Zinc	ND		20	6.0	ug/L		05/04/17 13:22	05/11/17 19:22	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		05/22/17 09:55	05/22/17 19:32	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	960		5.0	3.5	mg/L			05/05/17 07:13	1
Ammonia	870	B	50	22	ug/L			05/25/17 17:05	1
Nitrate Nitrite as N	32	J B	50	22	ug/L			05/23/17 16:48	1
Chemical Oxygen Demand	49		5.0	2.4	mg/L		05/19/17 10:13	05/19/17 14:15	1

Client Sample ID: MO-1-SS

Date Collected: 05/02/17 09:00
Date Received: 05/02/17 15:24

Lab Sample ID: 160-22117-4
Matrix: Water

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	19		5.0	3.6	mg/L			05/22/17 17:29	5

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-52.7	U	137	137	500	258	pCi/L	05/30/17 19:12	05/31/17 15:46	1

Client Sample ID: MO-1-SDR

Date Collected: 05/02/17 11:45
Date Received: 05/02/17 15:24

Lab Sample ID: 160-22117-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/10/17 04:33	1
Acrylonitrile	ND		50	1.7	ug/L			05/10/17 04:33	1
Benzene	ND		5.0	0.25	ug/L			05/10/17 04:33	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/10/17 04:33	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/10/17 04:33	1
Bromoform	ND		5.0	0.37	ug/L			05/10/17 04:33	1
Carbon disulfide	0.85	J	5.0	0.37	ug/L			05/10/17 04:33	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/10/17 04:33	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/10/17 04:33	1
Chloroethane	ND		10	0.38	ug/L			05/10/17 04:33	1
Chloroform	ND		5.0	0.15	ug/L			05/10/17 04:33	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/10/17 04:33	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/10/17 04:33	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/10/17 04:33	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/10/17 04:33	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/10/17 04:33	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/10/17 04:33	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/10/17 04:33	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/10/17 04:33	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/10/17 04:33	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/10/17 04:33	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/10/17 04:33	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/10/17 04:33	1
2-Hexanone	ND		20	0.59	ug/L			05/10/17 04:33	1
Methyl bromide	ND		10	0.40	ug/L			05/10/17 04:33	1
Methyl chloride	ND		10	0.55	ug/L			05/10/17 04:33	1
Methylene bromide	ND		5.0	0.41	ug/L			05/10/17 04:33	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/10/17 04:33	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/10/17 04:33	1
Methyl iodide	4.2	J	5.0	1.5	ug/L			05/10/17 04:33	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/10/17 04:33	1
Styrene	ND		5.0	0.35	ug/L			05/10/17 04:33	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/10/17 04:33	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/10/17 04:33	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/10/17 04:33	1
Toluene	ND		5.0	1.0	ug/L			05/10/17 04:33	1

Client Sample ID: MO-1-SDR
Date Collected: 05/02/17 11:45
Date Received: 05/02/17 15:24

Lab Sample ID: 160-22117-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/10/17 04:33	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/10/17 04:33	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/10/17 04:33	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/10/17 04:33	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/10/17 04:33	1
Trichloroethene	ND		5.0	0.29	ug/L			05/10/17 04:33	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/10/17 04:33	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/10/17 04:33	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/10/17 04:33	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/10/17 04:33	1
Xylenes, Total	ND		10	0.85	ug/L			05/10/17 04:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*71 - 139*		*05/10/17 04:33*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 121*		*05/10/17 04:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*103*		*76 - 121*		*05/10/17 04:33*	*1*
Toluene-d8 (Surr)	*108*		*80 - 129*		*05/10/17 04:33*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.57**	**H**	0.10	0.026	mg/L			06/09/17 01:18	1
Iodide	**0.22**	**J**	1.0	0.10	mg/L			05/09/17 00:57	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**11**	**B**	5.0	0.50	mg/L			05/06/17 05:51	25
Sulfate	**38**	**H**	13	1.3	mg/L			06/09/17 01:33	25

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	3.0	ug/L		05/04/17 13:22	05/11/17 19:26	1
Iron	**240**	**B**	100	30	ug/L		05/04/17 13:22	05/11/17 19:26	1
Arsenic	ND		10	4.0	ug/L		05/04/17 13:22	05/11/17 19:26	1
Barium	**170**		50	15	ug/L		05/04/17 13:22	05/11/17 19:26	1
Beryllium	ND		5.0	1.5	ug/L		05/04/17 13:22	05/11/17 19:26	1
Boron	**210**		100	25	ug/L		05/04/17 13:22	05/11/17 19:26	1
Cadmium	ND		5.0	1.5	ug/L		05/04/17 13:22	05/11/17 19:26	1
CaHard	**200000**		2500	750	ug/L		05/04/17 13:22	06/05/17 18:48	1
Calcium	**80000**		1000	300	ug/L		05/04/17 13:22	06/05/17 18:48	1
Chromium	ND		10	3.0	ug/L		05/04/17 13:22	05/11/17 19:26	1
Cobalt	ND		50	15	ug/L		05/04/17 13:22	05/11/17 19:26	1
Copper	ND		25	7.0	ug/L		05/04/17 13:22	05/11/17 19:26	1
Lead	ND		10	3.0	ug/L		05/04/17 13:22	05/11/17 19:26	1
Magnesium	**36**		1.0	0.30	mg/L		05/04/17 13:22	05/11/17 19:26	1
Manganese	**280**		15	4.0	ug/L		05/04/17 13:22	05/11/17 19:26	1
MgHard	**150000**		4100	1200	ug/L		05/04/17 13:22	05/11/17 19:26	1
Nickel	ND		0.040	0.010	mg/L		05/04/17 13:22	05/11/17 19:26	1
Phosphorus	**100**	**J**	250	75	ug/L		05/04/17 13:22	05/11/17 19:26	1
Selenium	ND	^	15	8.0	ug/L		05/04/17 13:22	05/11/17 19:26	1
Silver	ND		10	3.0	ug/L		05/04/17 13:22	05/11/17 19:26	1

Client Sample ID: MO-1-SDR

Lab Sample ID: 160-22117-5
Date Collected: 05/02/17 11:45
Matrix: Water
Date Received: 05/02/17 15:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Sodium	**39000**		1000	300	ug/L		05/04/17 13:22	05/11/17 19:26	1
Thallium	ND	^	20	5.0	ug/L		05/04/17 13:22	05/11/17 19:26	1
Total Hardness	**360000**		6600	2000	ug/L		05/04/17 13:22	05/11/17 19:26	1
Vanadium	ND		50	25	ug/L		05/04/17 13:22	05/11/17 19:26	1
Zinc	ND		20	6.0	ug/L		05/04/17 13:22	05/11/17 19:26	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		05/22/17 09:55	05/22/17 19:34	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**450**		5.0	3.5	mg/L			05/05/17 07:13	1
Ammonia	**170**	**B**	50	22	ug/L			05/25/17 17:08	1
Nitrate Nitrite as N	**30**	**J B**	50	22	ug/L			05/23/17 16:51	1
Chemical Oxygen Demand	**6.0**		5.0	2.4	mg/L		05/19/17 10:13	05/19/17 14:15	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**6.5**		2.0	1.4	mg/L			05/22/17 17:40	2

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-23.9	U	139	139	500	258	pCi/L	05/30/17 19:12	05/31/17 16:09	1

Client Sample ID: MO-2-SD

Lab Sample ID: 160-22117-6
Date Collected: 05/02/17 14:15
Matrix: Water
Date Received: 05/02/17 15:24

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/10/17 04:58	1
Acrylonitrile	ND		50	1.7	ug/L			05/10/17 04:58	1
Benzene	**0.25**	**J**	5.0	0.25	ug/L			05/10/17 04:58	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/10/17 04:58	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/10/17 04:58	1
Bromoform	ND		5.0	0.37	ug/L			05/10/17 04:58	1
Carbon disulfide	**0.45**	**J**	5.0	0.37	ug/L			05/10/17 04:58	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/10/17 04:58	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/10/17 04:58	1
Chloroethane	ND		10	0.38	ug/L			05/10/17 04:58	1
Chloroform	ND		5.0	0.15	ug/L			05/10/17 04:58	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/10/17 04:58	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/10/17 04:58	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/10/17 04:58	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/10/17 04:58	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/10/17 04:58	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/10/17 04:58	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/10/17 04:58	1

Client Sample ID: MO-2-SD
Date Collected: 05/02/17 14:15
Date Received: 05/02/17 15:24

Lab Sample ID: 160-22117-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/10/17 04:58	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/10/17 04:58	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/10/17 04:58	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/10/17 04:58	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/10/17 04:58	1
2-Hexanone	ND		20	0.59	ug/L			05/10/17 04:58	1
Methyl bromide	ND		10	0.40	ug/L			05/10/17 04:58	1
Methyl chloride	ND		10	0.55	ug/L			05/10/17 04:58	1
Methylene bromide	ND		5.0	0.41	ug/L			05/10/17 04:58	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/10/17 04:58	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/10/17 04:58	1
Methyl iodide	ND		5.0	1.5	ug/L			05/10/17 04:58	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/10/17 04:58	1
Styrene	ND		5.0	0.35	ug/L			05/10/17 04:58	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/10/17 04:58	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/10/17 04:58	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/10/17 04:58	1
Toluene	ND		5.0	1.0	ug/L			05/10/17 04:58	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/10/17 04:58	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/10/17 04:58	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/10/17 04:58	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/10/17 04:58	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/10/17 04:58	1
Trichloroethene	ND		5.0	0.29	ug/L			05/10/17 04:58	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/10/17 04:58	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/10/17 04:58	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/10/17 04:58	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/10/17 04:58	1
Xylenes, Total	ND		10	0.85	ug/L			05/10/17 04:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*119*		*71 - 139*		*05/10/17 04:58*	*1*
Dibromofluoromethane (Surr)	*103*		*80 - 121*		*05/10/17 04:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*102*		*76 - 121*		*05/10/17 04:58*	*1*
Toluene-d8 (Surr)	*109*		*80 - 129*		*05/10/17 04:58*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**1.6**	**H F1**	0.10	0.026	mg/L			06/09/17 01:49	1
Iodide	**0.11**	**J**	1.0	0.10	mg/L			05/09/17 01:26	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**20**	**B**	5.0	0.50	mg/L			05/06/17 06:08	25
Sulfate	**44**	**H**	13	1.3	mg/L			06/09/17 02:04	25

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	3.0	ug/L		05/04/17 13:22	05/11/17 19:31	1
Iron	**460**	**B**	100	30	ug/L		05/04/17 13:22	05/11/17 19:31	1

Client Sample ID: MO-2-SD

Date Collected: 05/02/17 14:15
Date Received: 05/02/17 15:24

Lab Sample ID: 160-22117-6

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		10	4.0	ug/L		05/04/17 13:22	05/11/17 19:31	1
Barium	**130**		50	15	ug/L		05/04/17 13:22	05/11/17 19:31	1
Beryllium	ND		5.0	1.5	ug/L		05/04/17 13:22	05/11/17 19:31	1
Boron	**240**		100	25	ug/L		05/04/17 13:22	05/11/17 19:31	1
Cadmium	ND		5.0	1.5	ug/L		05/04/17 13:22	05/11/17 19:31	1
CaHard	**160000**		2500	750	ug/L		05/04/17 13:22	06/05/17 18:52	1
Calcium	**65000**		1000	300	ug/L		05/04/17 13:22	06/05/17 18:52	1
Chromium	ND		10	3.0	ug/L		05/04/17 13:22	05/11/17 19:31	1
Cobalt	ND		50	15	ug/L		05/04/17 13:22	05/11/17 19:31	1
Copper	ND		25	7.0	ug/L		05/04/17 13:22	05/11/17 19:31	1
Lead	ND		10	3.0	ug/L		05/04/17 13:22	05/11/17 19:31	1
Magnesium	**38**		1.0	0.30	mg/L		05/04/17 13:22	05/11/17 19:31	1
Manganese	**540**		15	4.0	ug/L		05/04/17 13:22	05/11/17 19:31	1
MgHard	**160000**		4100	1200	ug/L		05/04/17 13:22	05/11/17 19:31	1
Nickel	ND		0.040	0.010	mg/L		05/04/17 13:22	05/11/17 19:31	1
Phosphorus	ND		250	75	ug/L		05/04/17 13:22	05/11/17 19:31	1
Selenium	ND	^	15	8.0	ug/L		05/04/17 13:22	05/11/17 19:31	1
Silver	ND		10	3.0	ug/L		05/04/17 13:22	05/11/17 19:31	1
Sodium	**78000**		1000	300	ug/L		05/04/17 13:22	05/11/17 19:31	1
Thallium	ND	^	20	5.0	ug/L		05/04/17 13:22	05/11/17 19:31	1
Total Hardness	**340000**		6600	2000	ug/L		05/04/17 13:22	05/11/17 19:31	1
Vanadium	ND		50	25	ug/L		05/04/17 13:22	05/11/17 19:31	1
Zinc	ND		20	6.0	ug/L		05/04/17 13:22	05/11/17 19:31	1

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		05/22/17 09:55	05/22/17 19:40	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**500**		5.0	3.5	mg/L			05/05/17 07:13	1
Ammonia	**1500**	**B**	50	22	ug/L			05/25/17 17:10	1
Nitrate Nitrite as N	**22**	**J B**	50	22	ug/L			05/23/17 16:54	1
Chemical Oxygen Demand	**5.0**		5.0	2.4	mg/L		05/19/17 10:13	05/19/17 14:15	1
Total Organic Carbon	**4.1**		1.0	0.72	mg/L			05/22/17 17:54	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-56.8	U	134	134	500	254	pCi/L	05/30/17 19:12	05/31/17 16:32	1

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

Lab Sample ID: MB 160-307897/7
Matrix: Water
Analysis Batch: 307897

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/09/17 23:28	1
Acrylonitrile	ND		50	1.7	ug/L			05/09/17 23:28	1
Benzene	ND		5.0	0.25	ug/L			05/09/17 23:28	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/09/17 23:28	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/09/17 23:28	1
Bromoform	ND		5.0	0.37	ug/L			05/09/17 23:28	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/09/17 23:28	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/09/17 23:28	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/09/17 23:28	1
Chloroethane	ND		10	0.38	ug/L			05/09/17 23:28	1
Chloroform	ND		5.0	0.15	ug/L			05/09/17 23:28	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/09/17 23:28	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/09/17 23:28	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/09/17 23:28	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/09/17 23:28	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/09/17 23:28	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/09/17 23:28	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/09/17 23:28	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/09/17 23:28	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/09/17 23:28	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/09/17 23:28	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/09/17 23:28	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/09/17 23:28	1
2-Hexanone	ND		20	0.59	ug/L			05/09/17 23:28	1
Methyl bromide	ND		10	0.40	ug/L			05/09/17 23:28	1
Methyl chloride	ND		10	0.55	ug/L			05/09/17 23:28	1
Methylene bromide	ND		5.0	0.41	ug/L			05/09/17 23:28	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/09/17 23:28	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/09/17 23:28	1
Methyl iodide	ND		5.0	1.5	ug/L			05/09/17 23:28	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/09/17 23:28	1
Styrene	ND		5.0	0.35	ug/L			05/09/17 23:28	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/09/17 23:28	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/09/17 23:28	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/09/17 23:28	1
Toluene	ND		5.0	1.0	ug/L			05/09/17 23:28	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/09/17 23:28	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/09/17 23:28	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/09/17 23:28	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/09/17 23:28	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/09/17 23:28	1
Trichloroethene	ND		5.0	0.29	ug/L			05/09/17 23:28	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/09/17 23:28	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/09/17 23:28	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/09/17 23:28	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/09/17 23:28	1
Xylenes, Total	ND		10	0.85	ug/L			05/09/17 23:28	1

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

Lab Sample ID: MB 160-307897/7
Matrix: Water
Analysis Batch: 307897

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		71 - 139		05/09/17 23:28	1
Dibromofluoromethane (Surr)	97		80 - 121		05/09/17 23:28	1
1,2-Dichloroethane-d4 (Surr)	99		76 - 121		05/09/17 23:28	1
Toluene-d8 (Surr)	106		80 - 129		05/09/17 23:28	1

Lab Sample ID: LCS 160-307897/3
Matrix: Water
Analysis Batch: 307897

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	50.0	49.9		ug/L		100	63 - 131
Acrylonitrile	500	513		ug/L		103	81 - 117
Benzene	50.0	50.9		ug/L		102	80 - 120
Bromochloromethane	50.0	50.3		ug/L		101	80 - 120
Bromodichloromethane	50.0	50.7		ug/L		101	80 - 120
Bromoform	50.0	49.8		ug/L		100	80 - 120
Carbon disulfide	50.0	50.5		ug/L		101	79 - 126
Carbon tetrachloride	50.0	50.3		ug/L		101	73 - 123
Chlorobenzene	50.0	51.3		ug/L		103	80 - 120
Chloroethane	50.0	44.0		ug/L		88	52 - 140
Chloroform	50.0	50.5		ug/L		101	80 - 120
cis-1,2-Dichloroethene	50.0	51.5		ug/L		103	80 - 120
cis-1,3-Dichloropropene	50.0	53.3		ug/L		107	80 - 122
Dibromochloromethane	50.0	50.4		ug/L		101	80 - 120
1,2-Dibromo-3-Chloropropane	50.0	50.4		ug/L		101	77 - 125
1,2-Dibromoethane (EDB)	50.0	50.7		ug/L		101	80 - 120
1,2-Dichlorobenzene	50.0	51.6		ug/L		103	80 - 120
1,4-Dichlorobenzene	50.0	51.6		ug/L		103	80 - 120
1,1-Dichloroethane	50.0	50.8		ug/L		102	80 - 120
1,2-Dichloroethane	50.0	49.8		ug/L		100	69 - 124
1,1-Dichloroethene	50.0	51.1		ug/L		102	77 - 126
1,2-Dichloropropane	50.0	51.0		ug/L		102	80 - 120
Ethylbenzene	50.0	52.3		ug/L		105	80 - 120
2-Hexanone	50.0	55.4		ug/L		111	64 - 136
Methyl bromide	50.0	44.6		ug/L		89	57 - 139
Methyl chloride	50.0	48.9		ug/L		98	70 - 127
Methylene bromide	50.0	49.7		ug/L		99	78 - 120
Methylene Chloride	50.0	49.3		ug/L		99	80 - 120
Methyl Ethyl Ketone	50.0	50.2		ug/L		100	70 - 130
Methyl iodide	50.0	46.0		ug/L		92	73 - 125
4-Methyl-2-pentanone (MIBK)	50.0	54.7		ug/L		109	76 - 129
Styrene	50.0	56.3		ug/L		113	80 - 120
1,1,1,2-Tetrachloroethane	50.0	51.0		ug/L		102	80 - 120
1,1,2,2-Tetrachloroethane	50.0	48.1		ug/L		96	80 - 120
Tetrachloroethene	50.0	51.8		ug/L		104	80 - 120
Toluene	50.0	50.8		ug/L		102	80 - 120
trans-1,4-Dichloro-2-butene	50.0	49.8		ug/L		100	75 - 127
trans-1,2-Dichloroethene	50.0	50.9		ug/L		102	80 - 120

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

Lab Sample ID: LCS 160-307897/3
Matrix: Water
Analysis Batch: 307897

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			50.0	53.7		ug/L		107	80 - 130		
1,1,1-Trichloroethane			50.0	50.7		ug/L		101	76 - 120		
1,1,2-Trichloroethane			50.0	50.4		ug/L		101	80 - 120		
Trichloroethene			50.0	49.3		ug/L		99	73 - 120		
Trichlorofluoromethane			50.0	49.2		ug/L		98	74 - 130		
1,2,3-Trichloropropane			50.0	48.5		ug/L		97	80 - 120		
Vinyl acetate			50.0	56.5		ug/L		113	37 - 140		
Vinyl chloride			50.0	51.1		ug/L		102	51 - 140		
Xylenes, Total			100	115		ug/L		115	80 - 121		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*71 - 139*
Dibromofluoromethane (Surr)	*98*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*97*		*76 - 121*
Toluene-d8 (Surr)	*104*		*80 - 129*

Lab Sample ID: LCSD 160-307897/4
Matrix: Water
Analysis Batch: 307897

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
Acetone			50.0	49.4		ug/L		99	63 - 131	1	20
Acrylonitrile			500	504		ug/L		101	81 - 117	2	20
Benzene			50.0	49.8		ug/L		100	80 - 120	2	20
Bromochloromethane			50.0	49.4		ug/L		99	80 - 120	2	20
Bromodichloromethane			50.0	49.6		ug/L		99	80 - 120	2	20
Bromoform			50.0	48.7		ug/L		97	80 - 120	2	20
Carbon disulfide			50.0	48.9		ug/L		98	79 - 126	3	20
Carbon tetrachloride			50.0	48.8		ug/L		98	73 - 123	3	20
Chlorobenzene			50.0	49.8		ug/L		100	80 - 120	3	20
Chloroethane			50.0	40.3		ug/L		81	52 - 140	9	20
Chloroform			50.0	49.1		ug/L		98	80 - 120	3	20
cis-1,2-Dichloroethene			50.0	50.6		ug/L		101	80 - 120	2	20
cis-1,3-Dichloropropene			50.0	52.2		ug/L		104	80 - 122	2	20
Dibromochloromethane			50.0	49.5		ug/L		99	80 - 120	2	20
1,2-Dibromo-3-Chloropropane			50.0	50.1		ug/L		100	77 - 125	1	20
1,2-Dibromoethane (EDB)			50.0	49.4		ug/L		99	80 - 120	3	20
1,2-Dichlorobenzene			50.0	50.1		ug/L		100	80 - 120	3	20
1,4-Dichlorobenzene			50.0	49.8		ug/L		100	80 - 120	4	20
1,1-Dichloroethane			50.0	49.3		ug/L		99	80 - 120	3	20
1,2-Dichloroethane			50.0	48.7		ug/L		97	69 - 124	2	20
1,1-Dichloroethene			50.0	49.2		ug/L		98	77 - 126	4	20
1,2-Dichloropropane			50.0	50.4		ug/L		101	80 - 120	1	20
Ethylbenzene			50.0	50.2		ug/L		100	80 - 120	4	20
2-Hexanone			50.0	53.9		ug/L		108	64 - 136	3	20
Methyl bromide			50.0	42.9		ug/L		86	57 - 139	4	20
Methyl chloride			50.0	47.0		ug/L		94	70 - 127	4	20
Methylene bromide			50.0	48.8		ug/L		98	78 - 120	2	20

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

Lab Sample ID: LCSD 160-307897/4
Matrix: Water
Analysis Batch: 307897

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
Methylene Chloride			50.0	48.4		ug/L		97	80 - 120	2	20
Methyl Ethyl Ketone			50.0	50.0		ug/L		100	70 - 130	0	20
Methyl iodide			50.0	46.6		ug/L		93	73 - 125	1	20
4-Methyl-2-pentanone (MIBK)			50.0	54.4		ug/L		109	76 - 129	1	20
Styrene			50.0	54.2		ug/L		108	80 - 120	4	20
1,1,1,2-Tetrachloroethane			50.0	49.4		ug/L		99	80 - 120	3	20
1,1,2,2-Tetrachloroethane			50.0	47.7		ug/L		95	80 - 120	1	20
Tetrachloroethene			50.0	49.5		ug/L		99	80 - 120	4	20
Toluene			50.0	49.3		ug/L		99	80 - 120	3	20
trans-1,4-Dichloro-2-butene			50.0	48.8		ug/L		98	75 - 127	2	20
trans-1,2-Dichloroethene			50.0	49.1		ug/L		98	80 - 120	4	20
trans-1,3-Dichloropropene			50.0	51.9		ug/L		104	80 - 130	3	20
1,1,1-Trichloroethane			50.0	49.5		ug/L		99	76 - 120	2	20
1,1,2-Trichloroethane			50.0	48.7		ug/L		97	80 - 120	3	20
Trichloroethene			50.0	47.5		ug/L		95	73 - 120	4	20
Trichlorofluoromethane			50.0	46.7		ug/L		93	74 - 130	5	20
1,2,3-Trichloropropane			50.0	47.4		ug/L		95	80 - 120	2	20
Vinyl acetate			50.0	55.1		ug/L		110	37 - 140	3	20
Vinyl chloride			50.0	48.5		ug/L		97	51 - 140	5	20
Xylenes, Total			100	110		ug/L		110	80 - 121	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*71 - 139*
Dibromofluoromethane (Surr)	*98*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*97*		*76 - 121*
Toluene-d8 (Surr)	*103*		*80 - 129*

Lab Sample ID: 160-22117-2 MS
Matrix: Water
Analysis Batch: 307897

Client Sample ID: MO-3-SDR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		50.0	60.5		ug/L		121	52 - 138
Acrylonitrile	ND		500	602		ug/L		120	58 - 142
Benzene	2.2	J	50.0	54.3		ug/L		104	80 - 120
Bromochloromethane	ND		50.0	52.4		ug/L		105	72 - 125
Bromodichloromethane	ND		50.0	51.7		ug/L		103	71 - 128
Bromoform	ND		50.0	52.7		ug/L		105	65 - 133
Carbon disulfide	ND		50.0	52.4		ug/L		105	69 - 139
Carbon tetrachloride	ND		50.0	50.9		ug/L		102	70 - 126
Chlorobenzene	ND		50.0	51.9		ug/L		104	80 - 120
Chloroethane	ND		50.0	48.1		ug/L		96	59 - 144
Chloroform	ND		50.0	51.1		ug/L		102	80 - 120
cis-1,2-Dichloroethene	ND		50.0	52.7		ug/L		105	80 - 124
cis-1,3-Dichloropropene	ND		50.0	53.9		ug/L		108	67 - 130
Dibromochloromethane	ND		50.0	52.4		ug/L		105	68 - 133
1,2-Dibromo-3-Chloropropane	ND		50.0	59.1		ug/L		118	58 - 148
1,2-Dibromoethane (EDB)	ND		50.0	53.8		ug/L		108	65 - 138

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

Lab Sample ID: 160-22117-2 MS
Matrix: Water
Analysis Batch: 307897

Client Sample ID: MO-3-SDR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	ND		50.0	53.1		ug/L		106	80 - 124
1,4-Dichlorobenzene	ND		50.0	52.7		ug/L		105	80 - 120
1,1-Dichloroethane	ND		50.0	51.3		ug/L		103	80 - 120
1,2-Dichloroethane	ND		50.0	53.0		ug/L		106	56 - 136
1,1-Dichloroethene	ND		50.0	52.1		ug/L		104	66 - 137
1,2-Dichloropropane	ND		50.0	52.3		ug/L		105	80 - 123
Ethylbenzene	ND		50.0	52.8		ug/L		106	80 - 121
2-Hexanone	ND		50.0	64.2		ug/L		128	47 - 150
Methyl bromide	0.68	J F2	50.0	48.7		ug/L		96	53 - 146
Methyl chloride	ND		50.0	50.1		ug/L		100	61 - 137
Methylene bromide	ND		50.0	54.2		ug/L		108	61 - 136
Methylene Chloride	ND		50.0	51.4		ug/L		103	80 - 120
Methyl Ethyl Ketone	ND		50.0	59.8		ug/L		120	58 - 143
Methyl iodide	ND	F1 F2	50.0	65.1	F1	ug/L		130	69 - 124
4-Methyl-2-pentanone (MIBK)	ND		50.0	64.1		ug/L		128	53 - 150
Styrene	ND		50.0	57.0		ug/L		114	44 - 150
1,1,1,2-Tetrachloroethane	ND		50.0	50.1		ug/L		100	80 - 120
1,1,2,2-Tetrachloroethane	ND		50.0	54.5		ug/L		109	60 - 150
Tetrachloroethene	ND		50.0	51.2		ug/L		102	66 - 132
Toluene	ND		50.0	51.6		ug/L		103	75 - 134
trans-1,4-Dichloro-2-butene	ND		50.0	55.4		ug/L		111	55 - 146
trans-1,2-Dichloroethene	ND		50.0	51.6		ug/L		103	79 - 121
trans-1,3-Dichloropropene	ND		50.0	54.9		ug/L		110	68 - 143
1,1,1-Trichloroethane	ND		50.0	51.4		ug/L		103	74 - 123
1,1,2-Trichloroethane	ND		50.0	53.2		ug/L		106	70 - 134
Trichloroethene	ND		50.0	49.4		ug/L		99	63 - 120
Trichlorofluoromethane	ND		50.0	48.9		ug/L		98	53 - 150
1,2,3-Trichloropropane	ND		50.0	54.0		ug/L		108	62 - 137
Vinyl acetate	ND		50.0	64.4		ug/L		129	63 - 150
Vinyl chloride	ND		50.0	52.8		ug/L		106	54 - 140
Xylenes, Total	ND		100	115		ug/L		115	80 - 124

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*71 - 139*
Dibromofluoromethane (Surr)	*99*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*102*		*76 - 121*
Toluene-d8 (Surr)	*104*		*80 - 129*

Lab Sample ID: 160-22117-2 MSD
Matrix: Water
Analysis Batch: 307897

Client Sample ID: MO-3-SDR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		50.0	60.7		ug/L		121	52 - 138	0	20
Acrylonitrile	ND		500	588		ug/L		118	58 - 142	2	20
Benzene	2.2	J	50.0	54.9		ug/L		105	80 - 120	1	20
Bromochloromethane	ND		50.0	53.1		ug/L		106	72 - 125	1	20
Bromodichloromethane	ND		50.0	53.4		ug/L		107	71 - 128	3	20

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

Lab Sample ID: 160-22117-2 MSD
Matrix: Water
Analysis Batch: 307897

Client Sample ID: MO-3-SDR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	ND		50.0	53.0		ug/L		106	65 - 133	1	20
Carbon disulfide	ND		50.0	52.0		ug/L		104	69 - 139	1	20
Carbon tetrachloride	ND		50.0	51.5		ug/L		103	70 - 126	1	20
Chlorobenzene	ND		50.0	52.1		ug/L		104	80 - 120	0	20
Chloroethane	ND		50.0	47.9		ug/L		96	59 - 144	0	20
Chloroform	ND		50.0	52.5		ug/L		105	80 - 120	3	20
cis-1,2-Dichloroethene	ND		50.0	53.7		ug/L		107	80 - 124	2	20
cis-1,3-Dichloropropene	ND		50.0	54.5		ug/L		109	67 - 130	1	20
Dibromochloromethane	ND		50.0	53.1		ug/L		106	68 - 133	1	20
1,2-Dibromo-3-Chloropropane	ND		50.0	56.8		ug/L		114	58 - 148	4	20
1,2-Dibromoethane (EDB)	ND		50.0	54.2		ug/L		108	65 - 138	1	20
1,2-Dichlorobenzene	ND		50.0	53.3		ug/L		107	80 - 124	0	20
1,4-Dichlorobenzene	ND		50.0	53.0		ug/L		106	80 - 120	1	20
1,1-Dichloroethane	ND		50.0	52.6		ug/L		105	80 - 120	2	20
1,2-Dichloroethane	ND		50.0	52.8		ug/L		106	56 - 136	0	20
1,1-Dichloroethene	ND		50.0	52.6		ug/L		105	66 - 137	1	20
1,2-Dichloropropane	ND		50.0	54.0		ug/L		108	80 - 123	3	20
Ethylbenzene	ND		50.0	52.5		ug/L		105	80 - 121	1	20
2-Hexanone	ND		50.0	64.4		ug/L		129	47 - 150	0	20
Methyl bromide	0.68	J F2	50.0	35.7	F2	ug/L		70	53 - 146	31	20
Methyl chloride	ND		50.0	47.1		ug/L		94	61 - 137	6	20
Methylene bromide	ND		50.0	54.0		ug/L		108	61 - 136	0	20
Methylene Chloride	ND		50.0	51.8		ug/L		104	80 - 120	1	20
Methyl Ethyl Ketone	ND		50.0	59.9		ug/L		120	58 - 143	0	20
Methyl iodide	ND	F1 F2	50.0	45.2	F2	ug/L		90	69 - 124	36	20
4-Methyl-2-pentanone (MIBK)	ND		50.0	62.9		ug/L		126	53 - 150	2	20
Styrene	ND		50.0	57.7		ug/L		115	44 - 150	1	20
1,1,1,2-Tetrachloroethane	ND		50.0	51.4		ug/L		103	80 - 120	3	20
1,1,2,2-Tetrachloroethane	ND		50.0	54.2		ug/L		108	60 - 150	1	20
Tetrachloroethene	ND		50.0	51.1		ug/L		102	66 - 132	0	20
Toluene	ND		50.0	51.3		ug/L		103	75 - 134	1	20
trans-1,4-Dichloro-2-butene	ND		50.0	54.1		ug/L		108	55 - 146	2	20
trans-1,2-Dichloroethene	ND		50.0	52.0		ug/L		104	79 - 121	1	20
trans-1,3-Dichloropropene	ND		50.0	55.1		ug/L		110	68 - 143	0	20
1,1,1-Trichloroethane	ND		50.0	52.1		ug/L		104	74 - 123	2	20
1,1,2-Trichloroethane	ND		50.0	54.2		ug/L		108	70 - 134	2	20
Trichloroethene	ND		50.0	50.1		ug/L		100	63 - 120	1	20
Trichlorofluoromethane	ND		50.0	49.5		ug/L		99	53 - 150	1	20
1,2,3-Trichloropropane	ND		50.0	52.3		ug/L		105	62 - 137	3	20
Vinyl acetate	ND		50.0	65.1		ug/L		130	63 - 150	1	20
Vinyl chloride	ND		50.0	50.6		ug/L		101	54 - 140	4	20
Xylenes, Total	ND		100	116		ug/L		116	80 - 124	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*71 - 139*
Dibromofluoromethane (Surr)	*103*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*105*		*76 - 121*
Toluene-d8 (Surr)	*105*		*80 - 129*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 160-307475/43
Matrix: Water
Analysis Batch: 307475

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.0510	J	0.20	0.020	mg/L			05/06/17 03:57	1

Lab Sample ID: LCS 160-307475/44
Matrix: Water
Analysis Batch: 307475

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.00	1.93		mg/L		97	90 - 110

Lab Sample ID: MB 160-307678/38
Matrix: Water
Analysis Batch: 307678

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	ND		1.0	0.10	mg/L			05/08/17 21:35	1

Lab Sample ID: LCS 160-307678/39
Matrix: Water
Analysis Batch: 307678

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iodide	4.00	3.91		mg/L		98	90 - 110

Lab Sample ID: 160-22117-2 MS
Matrix: Water
Analysis Batch: 307678

Client Sample ID: MO-3-SDR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iodide	0.44	J	4.00	4.29		mg/L		96	90 - 110

Lab Sample ID: 160-22117-2 DU
Matrix: Water
Analysis Batch: 307678

Client Sample ID: MO-3-SDR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Iodide	0.44	J	0.435	J	mg/L		1	20

Lab Sample ID: MB 160-312598/3
Matrix: Water
Analysis Batch: 312598

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10	0.026	mg/L			06/08/17 14:33	1
Sulfate	ND		0.50	0.050	mg/L			06/08/17 14:33	1

Method: 300.0 - Anions, Ion Chromatography (Continued)

Lab Sample ID: LCS 160-312598/4
Matrix: Water
Analysis Batch: 312598

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	1.00	1.03		mg/L		103	90 - 110
Sulfate	8.00	7.87		mg/L		98	90 - 110

Lab Sample ID: 160-22117-6 MS
Matrix: Water
Analysis Batch: 312598

Client Sample ID: MO-2-SD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	1.6	H F1	2.00	3.91	E F1	mg/L		113	90 - 110

Lab Sample ID: 160-22310-F-6 MS
Matrix: Water
Analysis Batch: 312598

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride	0.44		2.00	2.50		mg/L		103	90 - 110

Lab Sample ID: 160-22310-F-6 DU
Matrix: Water
Analysis Batch: 312598

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride	0.44		0.443		mg/L		0.5	20

Method: 300.0 - Anions, Ion Chromatography - DL

Lab Sample ID: 160-22117-2 MS
Matrix: Water
Analysis Batch: 307475

Client Sample ID: MO-3-SDR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride - DL	87	B	50.0	133	E	mg/L		91	90 - 110

Lab Sample ID: 160-22117-2 DU
Matrix: Water
Analysis Batch: 307475

Client Sample ID: MO-3-SDR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chloride - DL	87	B	85.9		mg/L		2	20

Lab Sample ID: 160-22117-6 MS
Matrix: Water
Analysis Batch: 312598

Client Sample ID: MO-2-SD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate - DL	44	H	100	136		mg/L		92	90 - 110

Method: 300.0 - Anions, Ion Chromatography - DL (Continued)

Lab Sample ID: 160-22310-F-6 MS
Matrix: Water
Analysis Batch: 312598

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Sulfate - DL	20		100	115		mg/L		95	90 - 110

Lab Sample ID: 160-22310-F-6 DU
Matrix: Water
Analysis Batch: 312598

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Sulfate - DL	20		19.1		mg/L		4	20

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 160-307263/1-A
Matrix: Water
Analysis Batch: 308370

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 307263

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	3.0	ug/L		05/04/17 13:22	05/11/17 18:37	1
Iron	57.4	J	100	30	ug/L		05/04/17 13:22	05/11/17 18:37	1
Arsenic	ND		10	4.0	ug/L		05/04/17 13:22	05/11/17 18:37	1
Barium	ND		50	15	ug/L		05/04/17 13:22	05/11/17 18:37	1
Beryllium	ND		5.0	1.5	ug/L		05/04/17 13:22	05/11/17 18:37	1
Boron	ND		100	25	ug/L		05/04/17 13:22	05/11/17 18:37	1
Cadmium	ND		5.0	1.5	ug/L		05/04/17 13:22	05/11/17 18:37	1
Chromium	ND		10	3.0	ug/L		05/04/17 13:22	05/11/17 18:37	1
Cobalt	ND		50	15	ug/L		05/04/17 13:22	05/11/17 18:37	1
Copper	ND		25	7.0	ug/L		05/04/17 13:22	05/11/17 18:37	1
Lead	ND		10	3.0	ug/L		05/04/17 13:22	05/11/17 18:37	1
Magnesium	ND		1000	300	ug/L		05/04/17 13:22	05/11/17 18:37	1
Manganese	ND		15	4.0	ug/L		05/04/17 13:22	05/11/17 18:37	1
MgHard	ND		4100	1200	ug/L		05/04/17 13:22	05/11/17 18:37	1
Nickel	ND		40	10	ug/L		05/04/17 13:22	05/11/17 18:37	1
Phosphorus	ND		250	75	ug/L		05/04/17 13:22	05/11/17 18:37	1
Selenium	ND	^	15	8.0	ug/L		05/04/17 13:22	05/11/17 18:37	1
Silver	ND		10	3.0	ug/L		05/04/17 13:22	05/11/17 18:37	1
Thallium	ND	^	20	5.0	ug/L		05/04/17 13:22	05/11/17 18:37	1
Total Hardness	ND		6600	2000	ug/L		05/04/17 13:22	05/11/17 18:37	1
Vanadium	ND		50	25	ug/L		05/04/17 13:22	05/11/17 18:37	1
Zinc	ND		20	6.0	ug/L		05/04/17 13:22	05/11/17 18:37	1

Lab Sample ID: MB 160-307263/1-A
Matrix: Water
Analysis Batch: 312045

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 307263

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
CaHard	ND		2500	750	ug/L		05/04/17 13:22	06/05/17 17:58	1
Calcium	ND		1000	300	ug/L		05/04/17 13:22	06/05/17 17:58	1
Sodium	ND		1000	300	ug/L		05/04/17 13:22	06/05/17 17:58	1

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

Lab Sample ID: LCS 160-307263/2-A
Matrix: Water
Analysis Batch: 308370

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 307263

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	500	470		ug/L		94	80 - 120
Iron	10000	10200		ug/L		102	80 - 120
Arsenic	1000	954		ug/L		95	80 - 120
Barium	1000	1020		ug/L		102	80 - 120
Beryllium	100	105		ug/L		105	80 - 120
Boron	200	206		ug/L		103	80 - 120
Cadmium	1000	968		ug/L		97	80 - 120
Chromium	1000	1020		ug/L		102	80 - 120
Cobalt	1000	1030		ug/L		103	80 - 120
Copper	1000	1020		ug/L		102	80 - 120
Lead	1000	1020		ug/L		102	80 - 120
Magnesium	10000	10400		ug/L		104	80 - 120
Manganese	1000	1050		ug/L		105	80 - 120
Nickel	1000	1030		ug/L		103	80 - 120
Phosphorus	1000	1010		ug/L		101	80 - 120
Selenium	500	479	^	ug/L		96	80 - 120
Silver	200	206		ug/L		103	80 - 120
Thallium	200	216	^	ug/L		108	80 - 120
Vanadium	1000	1030		ug/L		103	80 - 120
Zinc	1000	976		ug/L		98	80 - 120

Lab Sample ID: LCS 160-307263/2-A
Matrix: Water
Analysis Batch: 312045

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 307263

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	10000	10100		ug/L		101	80 - 120
Sodium	10000	9520		ug/L		95	80 - 120

Lab Sample ID: 160-22117-2 MS
Matrix: Water
Analysis Batch: 308370

Client Sample ID: MO-3-SDR
Prep Type: Total/NA
Prep Batch: 307263

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		500	512		ug/L		102	75 - 125
Iron	1300	B	10000	11900		ug/L		106	75 - 125
Arsenic	ND		1000	1070		ug/L		107	75 - 125
Barium	230		1000	1270		ug/L		105	75 - 125
Beryllium	ND		100	108		ug/L		108	75 - 125
Boron	170		200	385		ug/L		107	75 - 125
Cadmium	ND		1000	1060		ug/L		106	75 - 125
Chromium	ND		1000	1090		ug/L		109	75 - 125
Cobalt	ND		1000	1080		ug/L		108	75 - 125
Copper	ND		1000	1090		ug/L		109	75 - 125
Lead	ND		1000	1060		ug/L		106	75 - 125
Magnesium	48000		10000	59700	4	ug/L		113	75 - 125
Manganese	1100		1000	2130		ug/L		107	75 - 125
Nickel	12	J	1000	1090		ug/L		107	75 - 125

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

Lab Sample ID: 160-22117-2 MS
Matrix: Water
Analysis Batch: 308370

Client Sample ID: MO-3-SDR
Prep Type: Total/NA
Prep Batch: 307263

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Phosphorus	ND		1000	1200		ug/L		120	75 - 125
Selenium	ND	^	500	433	^	ug/L		87	75 - 125
Silver	ND		200	216		ug/L		108	75 - 125
Thallium	ND	^	200	217	^	ug/L		108	75 - 125
Vanadium	ND		1000	1070		ug/L		107	75 - 125
Zinc	ND		1000	1080		ug/L		108	75 - 125

Lab Sample ID: 160-22117-2 MS
Matrix: Water
Analysis Batch: 312045

Client Sample ID: MO-3-SDR
Prep Type: Total/NA
Prep Batch: 307263

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Calcium	92000		10000	101000	4	ug/L		94	75 - 125
Sodium	130000		10000	138000	4	ug/L		105	75 - 125

Lab Sample ID: 160-22117-2 MSD
Matrix: Water
Analysis Batch: 308370

Client Sample ID: MO-3-SDR
Prep Type: Total/NA
Prep Batch: 307263

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		500	462		ug/L		92	75 - 125	10	20
Iron	1300	B	10000	12000		ug/L		107	75 - 125	1	20
Arsenic	ND		1000	958		ug/L		96	75 - 125	11	20
Barium	230		1000	1270		ug/L		104	75 - 125	0	20
Beryllium	ND		100	107		ug/L		107	75 - 125	1	20
Boron	170		200	387		ug/L		107	75 - 125	0	20
Cadmium	ND		1000	951		ug/L		95	75 - 125	11	20
Chromium	ND		1000	978		ug/L		98	75 - 125	11	20
Cobalt	ND		1000	966		ug/L		97	75 - 125	11	20
Copper	ND		1000	976		ug/L		98	75 - 125	11	20
Lead	ND		1000	951		ug/L		95	75 - 125	11	20
Magnesium	48000		10000	59400	4	ug/L		110	75 - 125	0	20
Manganese	1100		1000	2100		ug/L		105	75 - 125	1	20
Nickel	12	J	1000	975		ug/L		96	75 - 125	11	20
Phosphorus	ND		1000	1080		ug/L		108	75 - 125	11	20
Selenium	ND	^	500	389	^	ug/L		78	75 - 125	11	20
Silver	ND		200	215		ug/L		108	75 - 125	0	20
Thallium	ND	^	200	194	^	ug/L		97	75 - 125	11	20
Vanadium	ND		1000	1060		ug/L		106	75 - 125	1	20
Zinc	ND		1000	969		ug/L		97	75 - 125	11	20

Lab Sample ID: 160-22117-2 MSD
Matrix: Water
Analysis Batch: 312045

Client Sample ID: MO-3-SDR
Prep Type: Total/NA
Prep Batch: 307263

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Calcium	92000		10000	103000	4	ug/L		114	75 - 125	2	20
Sodium	130000		10000	141000	4	ug/L		128	75 - 125	2	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 160-309787/1-A
Matrix: Water
Analysis Batch: 309862

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 309787

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		05/22/17 09:55	05/22/17 19:17	1

Lab Sample ID: LCS 160-309787/2-A
Matrix: Water
Analysis Batch: 309862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 309787

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury			5.00	4.56		ug/L		91	80 - 120		

Lab Sample ID: 160-22117-3 MS
Matrix: Water
Analysis Batch: 309862

Client Sample ID: MO-3-SS
Prep Type: Total/NA
Prep Batch: 309787

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Mercury	ND		5.00	4.17		ug/L		83	80 - 120		

Lab Sample ID: 160-22117-3 MSD
Matrix: Water
Analysis Batch: 309862

Client Sample ID: MO-3-SS
Prep Type: Total/NA
Prep Batch: 309787

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		5.00	4.21		ug/L		84	80 - 120	1	20

Method: 160.1 - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 160-307314/1
Matrix: Water
Analysis Batch: 307314

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	ND		5.0	3.5	mg/L			05/05/17 07:13	1

Lab Sample ID: LCS 160-307314/2
Matrix: Water
Analysis Batch: 307314

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Dissolved Solids (TDS)			500	500		mg/L		100	90 - 110		

Lab Sample ID: 160-22117-2 DU
Matrix: Water
Analysis Batch: 307314

Client Sample ID: MO-3-SDR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids (TDS)	780			785		mg/L				0.1	5

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 160-310709/15
Matrix: Water
Analysis Batch: 310709

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	25.4	J	50	22	ug/L			05/25/17 16:46	1

Lab Sample ID: LCS 160-310709/16
Matrix: Water
Analysis Batch: 310709

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia	500	493		ug/L		99	90 - 110

Method: 350.1 - Nitrogen, Ammonia - DL

Lab Sample ID: 160-22117-2 MS
Matrix: Water
Analysis Batch: 310709

Client Sample ID: MO-3-SDR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Ammonia - DL	2900	B F1	5000	5380	F1	ug/L		51	90 - 110

Lab Sample ID: 160-22117-2 DU
Matrix: Water
Analysis Batch: 310709

Client Sample ID: MO-3-SDR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Ammonia - DL	2900	B F1	2980		ug/L		4	20

Method: 353.1 Preserved - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 160-310165/17
Matrix: Water
Analysis Batch: 310165

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	41.1	J	50	22	ug/L			05/23/17 16:23	1

Lab Sample ID: LCS 160-310165/18
Matrix: Water
Analysis Batch: 310165

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	500	493		ug/L		99	90 - 110

Lab Sample ID: 160-22117-2 MS
Matrix: Water
Analysis Batch: 310165

Client Sample ID: MO-3-SDR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	24	J B F1	500	28.0	J F1	ug/L		0.8	90 - 110

Method: 353.1 Preserved - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: 160-22117-2 DU
Matrix: Water
Analysis Batch: 310165

Client Sample ID: MO-3-SDR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	24	J B F1	24.0	J	ug/L		0	20

Method: 410.4 - COD

Lab Sample ID: MB 160-309415/3-A
Matrix: Water
Analysis Batch: 309630

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 309415

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		5.0	2.4	mg/L		05/19/17 10:13	05/19/17 14:15	1

Lab Sample ID: LCS 160-309415/4-A
Matrix: Water
Analysis Batch: 309630

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 309415

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	50.0	51.0		mg/L		102	90 - 110

Lab Sample ID: 160-22141-E-1-C MS
Matrix: Water
Analysis Batch: 309630

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 309415

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	3.0	J	50.0	52.0		mg/L		98	90 - 110

Lab Sample ID: 160-22141-E-1-B DU
Matrix: Water
Analysis Batch: 309630

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 309415

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chemical Oxygen Demand	3.0	J	ND		mg/L		NC	20

Method: 415.1 - TOC

Lab Sample ID: MB 160-310102/4
Matrix: Water
Analysis Batch: 310102

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	ND		1.0	0.72	mg/L			05/22/17 15:58	1

Lab Sample ID: LCS 160-310102/5
Matrix: Water
Analysis Batch: 310102

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	10.0	9.82		mg/L		98	90 - 110

Method: 415.1 - TOC - DL

Lab Sample ID: 160-22117-2 MS
Matrix: Water
Analysis Batch: 310102

Client Sample ID: MO-3-SDR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Total Organic Carbon - DL	14		25.0	43.3		mg/L		116	76 - 120		

Lab Sample ID: 160-22117-2 DU
Matrix: Water
Analysis Batch: 310102

Client Sample ID: MO-3-SDR
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Organic Carbon - DL	14			16.7		mg/L				16	20

Method: 906.0 - Tritium, Total (LSC)

Lab Sample ID: MB 160-311188/1-A
Matrix: Water
Analysis Batch: 311507

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 311188

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-95.04	U	130	130	500	255	pCi/L	05/30/17 19:12	05/31/17 10:07	1

Lab Sample ID: LCS 160-311188/2-A
Matrix: Water
Analysis Batch: 311507

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 311188

Analyte			Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Tritium			2910	2594		388	500	254	pCi/L	89	74 - 114		

Lab Sample ID: 160-22141-H-2-C MS
Matrix: Water
Analysis Batch: 311507

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 311188

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits		
Tritium	-98.2	U	5810	4945		603	500	260	pCi/L	85	67 - 130		

Lab Sample ID: 160-22141-H-1-C DU
Matrix: Water
Analysis Batch: 311507

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 311188

Analyte	Sample Result	Sample Qual		DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit			RER	RER Limit
Tritium	-37.8	U		26.58	U	142	500	251	pCi/L			0.23	1

QC Association Summary

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22117-1

GC/MS VOA

Analysis Batch: 307897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22117-1	TRIP BLANK	Total/NA	Water	8260C	
160-22117-2	MO-3-SDR	Total/NA	Water	8260C	
160-22117-3	MO-3-SS	Total/NA	Water	8260C	
160-22117-4	MO-1-SS	Total/NA	Water	8260C	
160-22117-5	MO-1-SDR	Total/NA	Water	8260C	
160-22117-6	MO-2-SD	Total/NA	Water	8260C	
MB 160-307897/7	Method Blank	Total/NA	Water	8260C	
LCS 160-307897/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 160-307897/4	Lab Control Sample Dup	Total/NA	Water	8260C	
160-22117-2 MS	MO-3-SDR	Total/NA	Water	8260C	
160-22117-2 MSD	MO-3-SDR	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 307475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22117-2 - DL	MO-3-SDR	Total/NA	Water	300.0	
160-22117-3 - DL	MO-3-SS	Total/NA	Water	300.0	
160-22117-4 - DL	MO-1-SS	Total/NA	Water	300.0	
160-22117-5 - DL	MO-1-SDR	Total/NA	Water	300.0	
160-22117-6 - DL	MO-2-SD	Total/NA	Water	300.0	
MB 160-307475/43	Method Blank	Total/NA	Water	300.0	
LCS 160-307475/44	Lab Control Sample	Total/NA	Water	300.0	
160-22117-2 MS - DL	MO-3-SDR	Total/NA	Water	300.0	
160-22117-2 DU - DL	MO-3-SDR	Total/NA	Water	300.0	

Analysis Batch: 307678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22117-2	MO-3-SDR	Total/NA	Water	300.0	
160-22117-3	MO-3-SS	Total/NA	Water	300.0	
160-22117-4	MO-1-SS	Total/NA	Water	300.0	
160-22117-5	MO-1-SDR	Total/NA	Water	300.0	
160-22117-6	MO-2-SD	Total/NA	Water	300.0	
MB 160-307678/38	Method Blank	Total/NA	Water	300.0	
LCS 160-307678/39	Lab Control Sample	Total/NA	Water	300.0	
160-22117-2 MS	MO-3-SDR	Total/NA	Water	300.0	
160-22117-2 DU	MO-3-SDR	Total/NA	Water	300.0	

Analysis Batch: 312598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22117-2	MO-3-SDR	Total/NA	Water	300.0	
160-22117-2 - DL	MO-3-SDR	Total/NA	Water	300.0	
160-22117-3	MO-3-SS	Total/NA	Water	300.0	
160-22117-3 - DL	MO-3-SS	Total/NA	Water	300.0	
160-22117-4 - DL	MO-1-SS	Total/NA	Water	300.0	
160-22117-4 - DL2	MO-1-SS	Total/NA	Water	300.0	
160-22117-5	MO-1-SDR	Total/NA	Water	300.0	
160-22117-5 - DL	MO-1-SDR	Total/NA	Water	300.0	
160-22117-6	MO-2-SD	Total/NA	Water	300.0	
160-22117-6 - DL	MO-2-SD	Total/NA	Water	300.0	

HPLC/IC (Continued)

Analysis Batch: 312598 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 160-312598/3	Method Blank	Total/NA	Water	300.0	
LCS 160-312598/4	Lab Control Sample	Total/NA	Water	300.0	
160-22117-6 MS	MO-2-SD	Total/NA	Water	300.0	
160-22117-6 MS - DL	MO-2-SD	Total/NA	Water	300.0	
160-22310-F-6 MS	Matrix Spike	Total/NA	Water	300.0	
160-22310-F-6 MS - DL	Matrix Spike	Total/NA	Water	300.0	
160-22310-F-6 DU	Duplicate	Total/NA	Water	300.0	
160-22310-F-6 DU - DL	Duplicate	Total/NA	Water	300.0	

Metals

Prep Batch: 307263

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22117-2	MO-3-SDR	Total/NA	Water	3010A	
160-22117-3	MO-3-SS	Total/NA	Water	3010A	
160-22117-4	MO-1-SS	Total/NA	Water	3010A	
160-22117-5	MO-1-SDR	Total/NA	Water	3010A	
160-22117-6	MO-2-SD	Total/NA	Water	3010A	
MB 160-307263/1-A	Method Blank	Total/NA	Water	3010A	
LCS 160-307263/2-A	Lab Control Sample	Total/NA	Water	3010A	
160-22117-2 MS	MO-3-SDR	Total/NA	Water	3010A	
160-22117-2 MSD	MO-3-SDR	Total/NA	Water	3010A	

Analysis Batch: 308370

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22117-2	MO-3-SDR	Total/NA	Water	6010C	307263
160-22117-3	MO-3-SS	Total/NA	Water	6010C	307263
160-22117-4	MO-1-SS	Total/NA	Water	6010C	307263
160-22117-5	MO-1-SDR	Total/NA	Water	6010C	307263
160-22117-6	MO-2-SD	Total/NA	Water	6010C	307263
MB 160-307263/1-A	Method Blank	Total/NA	Water	6010C	307263
LCS 160-307263/2-A	Lab Control Sample	Total/NA	Water	6010C	307263
160-22117-2 MS	MO-3-SDR	Total/NA	Water	6010C	307263
160-22117-2 MSD	MO-3-SDR	Total/NA	Water	6010C	307263

Prep Batch: 309787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22117-2	MO-3-SDR	Total/NA	Water	7470A	
160-22117-3	MO-3-SS	Total/NA	Water	7470A	
160-22117-4	MO-1-SS	Total/NA	Water	7470A	
160-22117-5	MO-1-SDR	Total/NA	Water	7470A	
160-22117-6	MO-2-SD	Total/NA	Water	7470A	
MB 160-309787/1-A	Method Blank	Total/NA	Water	7470A	
LCS 160-309787/2-A	Lab Control Sample	Total/NA	Water	7470A	
160-22117-3 MS	MO-3-SS	Total/NA	Water	7470A	
160-22117-3 MSD	MO-3-SS	Total/NA	Water	7470A	

Analysis Batch: 309862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22117-2	MO-3-SDR	Total/NA	Water	7470A	309787

Metals (Continued)

Analysis Batch: 309862 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22117-3	MO-3-SS	Total/NA	Water	7470A	309787
160-22117-4	MO-1-SS	Total/NA	Water	7470A	309787
160-22117-5	MO-1-SDR	Total/NA	Water	7470A	309787
160-22117-6	MO-2-SD	Total/NA	Water	7470A	309787
MB 160-309787/1-A	Method Blank	Total/NA	Water	7470A	309787
LCS 160-309787/2-A	Lab Control Sample	Total/NA	Water	7470A	309787
160-22117-3 MS	MO-3-SS	Total/NA	Water	7470A	309787
160-22117-3 MSD	MO-3-SS	Total/NA	Water	7470A	309787

Analysis Batch: 312045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22117-2	MO-3-SDR	Total/NA	Water	6010C	307263
160-22117-3	MO-3-SS	Total/NA	Water	6010C	307263
160-22117-4	MO-1-SS	Total/NA	Water	6010C	307263
160-22117-4	MO-1-SS	Total/NA	Water	6010C	307263
160-22117-5	MO-1-SDR	Total/NA	Water	6010C	307263
160-22117-6	MO-2-SD	Total/NA	Water	6010C	307263
MB 160-307263/1-A	Method Blank	Total/NA	Water	6010C	307263
LCS 160-307263/2-A	Lab Control Sample	Total/NA	Water	6010C	307263
160-22117-2 MS	MO-3-SDR	Total/NA	Water	6010C	307263
160-22117-2 MSD	MO-3-SDR	Total/NA	Water	6010C	307263

General Chemistry

Analysis Batch: 307314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22117-2	MO-3-SDR	Total/NA	Water	160.1	
160-22117-3	MO-3-SS	Total/NA	Water	160.1	
160-22117-4	MO-1-SS	Total/NA	Water	160.1	
160-22117-5	MO-1-SDR	Total/NA	Water	160.1	
160-22117-6	MO-2-SD	Total/NA	Water	160.1	
MB 160-307314/1	Method Blank	Total/NA	Water	160.1	
LCS 160-307314/2	Lab Control Sample	Total/NA	Water	160.1	
160-22117-2 DU	MO-3-SDR	Total/NA	Water	160.1	

Prep Batch: 309415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22117-2	MO-3-SDR	Total/NA	Water	410.4	
160-22117-3	MO-3-SS	Total/NA	Water	410.4	
160-22117-4	MO-1-SS	Total/NA	Water	410.4	
160-22117-5	MO-1-SDR	Total/NA	Water	410.4	
160-22117-6	MO-2-SD	Total/NA	Water	410.4	
MB 160-309415/3-A	Method Blank	Total/NA	Water	410.4	
LCS 160-309415/4-A	Lab Control Sample	Total/NA	Water	410.4	
160-22141-E-1-C MS	Matrix Spike	Total/NA	Water	410.4	
160-22141-E-1-B DU	Duplicate	Total/NA	Water	410.4	

Analysis Batch: 309630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22117-2	MO-3-SDR	Total/NA	Water	410.4	309415

General Chemistry (Continued)

Analysis Batch: 309630 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22117-3	MO-3-SS	Total/NA	Water	410.4	309415
160-22117-4	MO-1-SS	Total/NA	Water	410.4	309415
160-22117-5	MO-1-SDR	Total/NA	Water	410.4	309415
160-22117-6	MO-2-SD	Total/NA	Water	410.4	309415
MB 160-309415/3-A	Method Blank	Total/NA	Water	410.4	309415
LCS 160-309415/4-A	Lab Control Sample	Total/NA	Water	410.4	309415
160-22141-E-1-C MS	Matrix Spike	Total/NA	Water	410.4	309415
160-22141-E-1-B DU	Duplicate	Total/NA	Water	410.4	309415

Analysis Batch: 310102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22117-2 - DL	MO-3-SDR	Total/NA	Water	415.1	
160-22117-3	MO-3-SS	Total/NA	Water	415.1	
160-22117-4 - DL	MO-1-SS	Total/NA	Water	415.1	
160-22117-5 - DL	MO-1-SDR	Total/NA	Water	415.1	
160-22117-6	MO-2-SD	Total/NA	Water	415.1	
MB 160-310102/4	Method Blank	Total/NA	Water	415.1	
LCS 160-310102/5	Lab Control Sample	Total/NA	Water	415.1	
160-22117-2 MS - DL	MO-3-SDR	Total/NA	Water	415.1	
160-22117-2 DU - DL	MO-3-SDR	Total/NA	Water	415.1	

Analysis Batch: 310165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22117-2	MO-3-SDR	Total/NA	Water	353.1 Preserved	
160-22117-3	MO-3-SS	Total/NA	Water	353.1 Preserved	
160-22117-4	MO-1-SS	Total/NA	Water	353.1 Preserved	
160-22117-5	MO-1-SDR	Total/NA	Water	353.1 Preserved	
160-22117-6	MO-2-SD	Total/NA	Water	353.1 Preserved	
MB 160-310165/17	Method Blank	Total/NA	Water	353.1 Preserved	
LCS 160-310165/18	Lab Control Sample	Total/NA	Water	353.1 Preserved	
160-22117-2 MS	MO-3-SDR	Total/NA	Water	353.1 Preserved	
160-22117-2 DU	MO-3-SDR	Total/NA	Water	353.1 Preserved	

Analysis Batch: 310709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22117-2 - DL	MO-3-SDR	Total/NA	Water	350.1	
160-22117-3	MO-3-SS	Total/NA	Water	350.1	
160-22117-4	MO-1-SS	Total/NA	Water	350.1	
160-22117-5	MO-1-SDR	Total/NA	Water	350.1	
160-22117-6	MO-2-SD	Total/NA	Water	350.1	
MB 160-310709/15	Method Blank	Total/NA	Water	350.1	
LCS 160-310709/16	Lab Control Sample	Total/NA	Water	350.1	
160-22117-2 MS - DL	MO-3-SDR	Total/NA	Water	350.1	
160-22117-2 DU - DL	MO-3-SDR	Total/NA	Water	350.1	

Rad

Prep Batch: 311188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22117-2	MO-3-SDR	Total/NA	Water	LSC_Dist_Susp	

Rad (Continued)

Prep Batch: 311188 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22117-3	MO-3-SS	Total/NA	Water	LSC_Dist_Susp	
160-22117-4	MO-1-SS	Total/NA	Water	LSC_Dist_Susp	
160-22117-5	MO-1-SDR	Total/NA	Water	LSC_Dist_Susp	
160-22117-6	MO-2-SD	Total/NA	Water	LSC_Dist_Susp	
MB 160-311188/1-A	Method Blank	Total/NA	Water	LSC_Dist_Susp	
LCS 160-311188/2-A	Lab Control Sample	Total/NA	Water	LSC_Dist_Susp	
160-22141-H-2-C MS	Matrix Spike	Total/NA	Water	LSC_Dist_Susp	
160-22141-H-1-C DU	Duplicate	Total/NA	Water	LSC_Dist_Susp	

Surrogate Summary

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22117-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	12DCE	TOL
Lab Sample ID	Client Sample ID	(71-139)	(80-121)	(76-121)	(80-129)
160-22117-1	TRIP BLANK	120	94	94	104
160-22117-2	MO-3-SDR	118	100	102	106
160-22117-2 MS	MO-3-SDR	104	99	102	104
160-22117-2 MSD	MO-3-SDR	107	103	105	105
160-22117-3	MO-3-SS	126	109	110	113
160-22117-4	MO-1-SS	120	105	104	110
160-22117-5	MO-1-SDR	119	103	103	108
160-22117-6	MO-2-SD	119	103	102	109
LCS 160-307897/3	Lab Control Sample	102	98	97	104
LCSD 160-307897/4	Lab Control Sample Dup	102	98	97	103
MB 160-307897/7	Method Blank	121	97	99	106

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)

TestAmerica

THE LEADER IN ENVIRONMENTAL TESTING

ANALYTICAL REPORT

TestAmerica Laboratories, Inc.
TestAmerica St. Louis
13715 Rider Trail North
Earth City, MO 63045
Tel: (314)298-8566

TestAmerica Job ID: 160-22141-1
Client Project/Site: Groundwater -2nd Quarter Sampling Event

For:
Missouri Attorney General's Office
PO BOX 899
Jefferson City, Missouri 65102

Attn: Brenna McDonald

Authorized for release by:
6/14/2017 5:20:23 AM

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LINKS

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Visit us at: www.testamericainc.com

This report has been electronically signed and authorized by the signatory. Electronic signature is intended to be the legally binding equivalent of a traditionally handwritten signature.

Results relate only to the items tested and the sample(s) as received by the laboratory.

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Job ID: 160-22141-1

Laboratory: TestAmerica St. Louis

Narrative

CASE NARRATIVE

Client: Missouri Attorney General's Office

Project: Groundwater - 2nd Quarter 2017 Sampling Event

Report Number: 160-22141-1

With the exceptions noted as flags or footnotes, standard analytical protocols were followed in the analysis of the samples and no problems were encountered or anomalies observed. In addition all laboratory quality control samples were within established control limits, with any exceptions noted below. Each sample was analyzed to achieve the lowest possible reporting limit within the constraints of the method. In some cases, due to interference or analytes present at high concentrations, samples were diluted. For diluted samples, the reporting limits are adjusted relative to the dilution required.

TestAmerica St. Louis attests to the validity of the laboratory data generated by TestAmerica facilities reported herein. All analyses performed by TestAmerica facilities were done using established laboratory SOPs that incorporate QA/QC procedures described in the application methods. TestAmerica's operations groups have reviewed the data for compliance with the laboratory QA/QC plan, and data have been found to be compliant with laboratory protocols unless otherwise noted below.

The test results in this report meet all NELAP requirements for parameters for which accreditation is required or available. Any exceptions to NELAP requirements are noted in this report. Pursuant to NELAP, this report may not be reproduced, except in full, without the written approval of the laboratory.

Calculations are performed before rounding to avoid round-off errors in calculated results.

All holding times were met and proper preservation noted for the methods performed on these samples, unless otherwise detailed in the individual sections below.

All solid sample results for Chemistry analyses are reported on an "as received" basis unless otherwise indicated by the presence of a % solids value in the method header. All soil/sediment sample results for radiochemistry analyses are based upon sample as dried and disaggregated with the exception of tritium, carbon-14, and iodine-129 by gamma spectroscopy unless requested as wet weight by the client.

This laboratory report is confidential and is intended for the sole use of TestAmerica and its client.

RECEIPT

The samples were received on 05/03/2017; the samples arrived in good condition, properly preserved and where required on ice. The temperatures of the 2 coolers at receipt time were 4.9º C and 8.6º C.

Receipt Exceptions

A trip blank was submitted for analysis with these samples; however, it was not listed on the Chain of Custody (COC).

VOLATILE ORGANIC COMPOUNDS (GC MS)

Samples PZ-111-SD (160-22141-1), PZ-109-SS (160-22141-2), PZ-210-SD (160-22141-3), PZ-210-SS (160-22141-4), PZ-211-SD (160-22141-5), PZ-211-SS (160-22141-6), PZ-202-SS (160-22141-7), PZ-209-SD (160-22141-8), PZ-209-SS (160-22141-9), TRIP BLANK (160-22141-10) and TRIP BLANK (160-22141-11) were analyzed for volatile organic compounds (GC MS) in accordance with EPA SW-846 Method 8260C. The samples were analyzed on 05/10/2017, 05/12/2017 and 05/14/2017.

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 160-307897 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected, because the associated laboratory control samples' (LCS/LCSD) recoveries were within acceptance limits. (160-22117-A-2 MS)

Job ID: 160-22141-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

The matrix spike / matrix spike duplicate(MS/MSD) precision for analytical batch 160-307897 was outside control limits. Sample matrix interference and/or non-homogeneity are suspected, because the associated laboratory control sample / laboratory control sample duplicate (LCS/LCSD) precision was within acceptance limits. (160-22117-A-2 MSD)

The following compounds did not meet the minimum relative response factor limits in the continuing calibration verification (CCV) associated with batch 160-307897: Acetone and 2-Butanone (MEK). A low-level LOQV was analyzed at the reporting limit (5ug/L) and the affected analytes were detected. Target analytes recovering above the reporting limit will be qualified and reported. (CCVIS 160-307897/2)

The matrix spike / matrix spike duplicate (MS/MSD) recoveries for analytical batch 160-308357 were outside control limits. Sample matrix interference and/or non-homogeneity are suspected because the associated laboratory control samples' (LCS/LCSD) recoveries were within acceptance limits. (160-22271-A-3 MS) and (160-22271-A-3 MSD)

The following sample in analytical batch 160-308357 was analyzed at reduced volume due to high concentrations of target analytes: PZ-202-SS (160-22141-7). The reporting limits have been elevated by the appropriate factor.

The following compounds did not meet the minimum relative response factor limits in the continuing calibration verification (CCV) associated with batch 160-308357: Acetone and 2-Butanone (MEK). A low-level LOQV was analyzed at the reporting limit (5ug/L) and the affected analytes were detected. Target analytes recovering above the reporting limit will be qualified and reported. (CCVIS 160-308357/3)

The following compounds did not meet the minimum relative response factor limits in the continuing calibration verification (CCV) associated with batch 160-308482: Acetone and 2-Butanone (MEK). A low-level LOQV was analyzed at the reporting limit (5ug/L) and the affected analytes were detected. Target analytes recovering above the reporting limit will be qualified and reported. (CCVIS 160-308482/3)

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

TOTAL METALS (ICP)

Samples PZ-111-SD (160-22141-1), PZ-109-SS (160-22141-2), PZ-210-SD (160-22141-3), PZ-210-SS (160-22141-4), PZ-211-SD (160-22141-5), PZ-211-SS (160-22141-6), PZ-202-SS (160-22141-7), PZ-209-SD (160-22141-8) and PZ-209-SS (160-22141-9) were analyzed for total metals (ICP) in accordance with EPA SW-846 Method 6010C. The samples were prepared on 05/09/2017 and analyzed on 05/15/2017, 05/16/2017 and 06/05/2017.

The following samples in preparation batch 160-307841 and analytical batch 160-308716 were diluted to bring the concentration of target analytes within the calibration range: PZ-111-SD (160-22141-1), PZ-109-SS (160-22141-2), PZ-210-SD (160-22141-3), PZ-210-SS (160-22141-4), PZ-211-SD (160-22141-5), PZ-211-SS (160-22141-6), PZ-202-SS (160-22141-7), PZ-209-SD (160-22141-8), PZ-209-SS (160-22141-9), (160-22141-I-1-B MS ^), (160-22141-I-1-C MSD) and (160-22141-I-1-A SD ^). Elevated reporting limits (RLs) are provided.

Due to the high concentration of calcium, the matrix spike / matrix spike duplicate (MS/MSD) for preparation batch 160-307841 and analytical batch 160-308716 could not be evaluated for accuracy and precision. The associated laboratory control sample (LCS) met acceptance criteria. (160-22141-I-1-B MS ^) and (160-22141-I-1-C MSD)

The following sample in preparation batch 160-307841 and analytical batch 160-312045 was diluted to bring the concentration of target analytes within the calibration range: PZ-202-SS (160-22141-7). Elevated reporting limits (RLs) are provided.

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

TOTAL MERCURY

Samples PZ-111-SD (160-22141-1), PZ-109-SS (160-22141-2), PZ-210-SD (160-22141-3), PZ-210-SS (160-22141-4), PZ-211-SD (160-22141-5), PZ-211-SS (160-22141-6), PZ-202-SS (160-22141-7), PZ-209-SD (160-22141-8) and PZ-209-SS (160-22141-9) were analyzed for total mercury in accordance with EPA SW-846 Methods 7470A. The samples were prepared and analyzed on 05/22/2017.

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

TOTAL DISSOLVED SOLIDS

Samples PZ-111-SD (160-22141-1), PZ-109-SS (160-22141-2), PZ-210-SD (160-22141-3), PZ-210-SS (160-22141-4), PZ-211-SD (160-22141-5), PZ-211-SS (160-22141-6), PZ-202-SS (160-22141-7), PZ-209-SD (160-22141-8) and PZ-209-SS (160-22141-9) were

Job ID: 160-22141-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

analyzed for total dissolved solids in accordance with EPA Method 160.1. The samples were analyzed on 05/05/2017 and 05/08/2017.

The sample volume was reduced for the following samples in TDS batch 160- 307546 to meet the method requirement of less than 200 mg dried weight remaining after evaporation: PZ-202-SS (160-22141-7).

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

ANIONS, ION CHROMATOGRAPHY

Samples PZ-111-SD (160-22141-1), PZ-109-SS (160-22141-2), PZ-210-SD (160-22141-3), PZ-210-SS (160-22141-4), PZ-211-SD (160-22141-5), PZ-211-SS (160-22141-6), PZ-202-SS (160-22141-7), PZ-209-SD (160-22141-8) and PZ-209-SS (160-22141-9) were analyzed for Anions, Ion Chromatography in accordance with EPA Method 300.0. The samples were analyzed on 05/06/2017, 05/08/2017, 05/09/2017 and 06/10/2017.

The following samples in Anion batch 160-307475 were diluted to bring the concentrations of Chloride within the calibration range: PZ-111-SD (160-22141-1), PZ-109-SS (160-22141-2), PZ-210-SD (160-22141-3), PZ-210-SS (160-22141-4), PZ-211-SD (160-22141-5), PZ-211-SS (160-22141-6) and PZ-209-SD (160-22141-8). Elevated reporting limits (RLs) are provided.

The following samples in Anion batch 160-307675 were diluted to bring the concentrations of target analytes within the calibration range: PZ-202-SS (160-22141-7) and PZ-209-SS (160-22141-9). Elevated reporting limits (RLs) are provided.

The following samples in Anion batch 160-312598 were diluted to bring the concentrations of target analytes within the calibration range: PZ-111-SD (160-22141-1), PZ-109-SS (160-22141-2), PZ-210-SD (160-22141-3), PZ-210-SS (160-22141-4), PZ-211-SD (160-22141-5), PZ-211-SS (160-22141-6), PZ-202-SS (160-22141-7), PZ-209-SD (160-22141-8) and PZ-209-SS (160-22141-9). Elevated reporting limits (RLs) are provided.

The following samples in Anion batch 160-312598 were re-analyzed out of 28 day holding time in this batch for Fluoride and Sulfate: PZ-111-SD (160-22141-1), PZ-109-SS (160-22141-2), PZ-210-SD (160-22141-3), PZ-210-SS (160-22141-4), PZ-211-SD (160-22141-5), PZ-211-SS (160-22141-6), PZ-202-SS (160-22141-7), PZ-209-SD (160-22141-8) and PZ-209-SS (160-22141-9). The previous in-hold runs for Chloride were not reportable for Fluoride and Sulfate from the same dilutions, thus out of hold reanalysis was required. The samples were analyzed approximately 11 days outside of holding time, but within two times hold.

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

AMMONIA

Samples PZ-111-SD (160-22141-1), PZ-109-SS (160-22141-2), PZ-210-SD (160-22141-3), PZ-210-SS (160-22141-4), PZ-211-SD (160-22141-5), PZ-211-SS (160-22141-6), PZ-202-SS (160-22141-7), PZ-209-SD (160-22141-8) and PZ-209-SS (160-22141-9) were analyzed for ammonia in accordance with EPA Method 350.1. The samples were analyzed on 05/25/2017.

Ammonia in analytical batch 160-310709 was detected in method blank MB 160-310709/15 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

The following samples in Ammonia analytical batch 160-310709 were diluted to bring the concentration of the target analyte within the calibration range: PZ-210-SD (160-22141-3). Elevated reporting limits (RLs) are provided.

The following matrix spike (MS) recoveries for Ammonia analytical batch 160-310709 were outside control limits: (160-22117-G-2 MS ^10). Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits.

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

NITROGEN, NITRATE-NITRITE

Samples PZ-111-SD (160-22141-1), PZ-109-SS (160-22141-2), PZ-210-SD (160-22141-3), PZ-210-SS (160-22141-4), PZ-211-SD (160-22141-5), PZ-211-SS (160-22141-6), PZ-202-SS (160-22141-7), PZ-209-SD (160-22141-8) and PZ-209-SS (160-22141-9) were analyzed for Nitrogen, Nitrate-Nitrite in accordance with Method 353.1 Preserved. The samples were analyzed on 05/23/2017.

Job ID: 160-22141-1 (Continued)

Laboratory: TestAmerica St. Louis (Continued)

Nitrate Nitrite as N in analytical batch 160-310165 was detected in method blank MB 160-310165/17 at a level that was above the method detection limit but below the reporting limit. The value should be considered an estimate, and has been flagged. If the associated sample reported a result above the MDL and/or RL, the result has been flagged. Refer to the QC report for details.

The following matrix spike (MS) recoveries for Nitrate-Nitrite analytical batch 160-310165 were outside control limits: (160-22117-G-2 MS). Sample matrix interference is suspected because the associated laboratory control sample (LCS) recovery was within acceptance limits, as well as the historical poor performance of matrix spikes from this client.

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

CHEMICAL OXYGEN DEMAND

Samples PZ-111-SD (160-22141-1), PZ-109-SS (160-22141-2), PZ-210-SD (160-22141-3), PZ-210-SS (160-22141-4), PZ-211-SD (160-22141-5), PZ-211-SS (160-22141-6), PZ-202-SS (160-22141-7), PZ-209-SD (160-22141-8) and PZ-209-SS (160-22141-9) were analyzed for chemical oxygen demand in accordance with EPA Method 410.4. The samples were prepared and analyzed on 05/19/2017 and 05/30/2017.

The following samples in COD batch 160-311134 were diluted to bring the concentration of target analytes within the calibration range: PZ-202-SS (160-22141-7). Elevated reporting limits (RLs) are provided.

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

TOTAL ORGANIC CARBON

Samples PZ-111-SD (160-22141-1), PZ-109-SS (160-22141-2), PZ-210-SD (160-22141-3), PZ-210-SS (160-22141-4), PZ-211-SD (160-22141-5), PZ-211-SS (160-22141-6), PZ-202-SS (160-22141-7), PZ-209-SD (160-22141-8) and PZ-209-SS (160-22141-9) were analyzed for total organic carbon in accordance with EPA Method 415.1. The samples were analyzed on 05/22/2017.

The following samples in TOC batch 160-310102 were diluted to bring the concentrations of the target analyte within the calibration range: PZ-210-SD (160-22141-3), PZ-210-SS (160-22141-4) and PZ-202-SS (160-22141-7). Elevated reporting limits (RLs) are provided.

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

TRITIUM, TOTAL (LSC)

Samples PZ-111-SD (160-22141-1), PZ-109-SS (160-22141-2), PZ-210-SD (160-22141-3), PZ-210-SS (160-22141-4), PZ-211-SD (160-22141-5), PZ-211-SS (160-22141-6), PZ-202-SS (160-22141-7), PZ-209-SD (160-22141-8) and PZ-209-SS (160-22141-9) were analyzed for Tritium, Total (LSC) in accordance with USEPA 906.0. The samples were prepared on 05/30/2017 and analyzed on 05/31/2017.

Insufficient sample was provided to run the following samples in batch 160-311188 at the normal aliquot of 100mL: PZ-111-SD (160-22141-1), PZ-109-SS (160-22141-2), (160-22141-H-1 DU) and (160-22141-H-2 MS). The sample was reduced to 50mL for job 160-22141 sample 1, 1 DU, 2, 2 MS.

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

Chain of Custody Record

THE LEADER IN ENVIRONMENTAL TESTING

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Earth City, MO 63045
Phone (314) 298-8566 Fax (314) 298-8757

Client Information

Client Contact: Brenna McDonald
Company: Missouri Attorney General's Office
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Email: brenna.mcdonald@dnr.mo.gov
Project Name: Groundwater - May 2017 Sampling Event
Site: Bridgeton Landfill

Sampler: Brenna McDonald
Phone: 573-453-4329
Lab PM: Lambert-Sykes, Chenise Y
E-Mail: chenise.lambert-sykes@testamericainc.com
Carrier Tracking No(s):
COC No: 160-5226-2622.1
Page: Page 1 of 1
Job #:

Due Date Requested: Standard
TAT Requested (days): Standard
PO #: Purchase Order not required
WO #:
Project #: 16006007
SSOW#:

Analysis Requested

Sample Identification	Sample Date	Sample Time	Sample Type (C=comp, G=grab)	Matrix (W=water, S=solid, O=wasteoil, BT=Tissue, A=Air)	Field Filtered Sample (Yes or No)	906.0 - Tritium	350.1, 353.1_Pres, 365.2, 410.4_LL	160.1_Calcd, 300_ORGFM_28D	6010C - Metals	415.1 - TOC	8260C - (MOD) CILM 4.2	Total Number of containers
			Preservation Code:			N	S	N	D	S	A	
PZ-111-SD	5/2/17	0825	G	Water		1	2	1	1	1	3	9
PZ-109-SS	5/2/17	0958	G	Water		1	2	1	1	1	3	9
PZ-210-SD	5/2/17	1122	G	Water		1	2	1	1	1	3	9
PZ-210-SS	5/2/17	1339	G	Water		1	2	1	1	1	3	9
PZ-211-SD	5/2/17	1457	G	W		1	2	1	1	1	3	9
PZ-211-SS	5/2/17	1617	G	W		1	2	1	1	1	3	9
PZ-202-SS	5/2/17	1803	G	W		1	2	1	1	1	3	9
PZ-209-SD	5/3/17	0850	G	W		1	2	1	1	1	3	9
PZ-209-SS	5/3/17	1023	G	W		1	2	1	1	1	3	9
Tripblank	5/2/17	0800		W							2	2

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:

Special Instructions/Note:

160-22141 Chain of Custody

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: 5/8/17

	Date/Time	Company	Received by	Date/Time	Company
Relinquished by: Brenna C McDonald	5/3/17 1213	MANR		5/8/17 0800	T4
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:

Login Sample Receipt Checklist

Client: Missouri Attorney General's Office

Job Number: 160-22141-1

Login Number: 22141
List Number: 1
Creator: Clarke, Jill C

List Source: TestAmerica St. Louis

Question	Answer	Comment
Radioactivity wasn't checked or is </= background as measured by a survey meter.	True	
The cooler's custody seal, if present, is intact.	N/A	
Sample custody seals, if present, are intact.	N/A	
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	Received same day of collection; chilling process has begun.
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 containers received and the COC.	False	
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").	False	Samples -1 and -4 have headspace in one of three vials.
Multiphasic samples are not present.	True	
Samples do not require splitting or compositing.	True	
Residual Chlorine Checked.	N/A	

Qualifiers

GC/MS VOA

Qualifier	Qualifier Description
F1	MS and/or MSD Recovery is outside acceptance limits.
F2	MS/MSD RPD exceeds control limits
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.

HPLC/IC

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
E	Result exceeded calibration range.
B	Compound was found in the blank and sample.
H	Sample was prepped or analyzed beyond the specified holding time

Metals

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
4	MS, MSD: The analyte present in the original sample is greater than 4 times the matrix spike concentration; therefore, control limits are not applicable.

General Chemistry

Qualifier	Qualifier Description
J	Result is less than the RL but greater than or equal to the MDL and the concentration is an approximate value.
F1	MS and/or MSD Recovery is outside acceptance limits.
B	Compound was found in the blank and sample.

Rad

Qualifier	Qualifier Description
U	Result is less than the sample detection limit.

Glossary

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

Glossary (Continued)

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

Method Summary

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22141-1

Method	Method Description	Protocol	Laboratory
8260C	Volatile Organic Compounds by GC/MS	SW846	TAL SL
300.0	Anions, Ion Chromatography	MCAWW	TAL SL
6010C	Metals (ICP)	SW846	TAL SL
7470A	Mercury (CVAA)	SW846	TAL SL
160.1	Solids, Total Dissolved (TDS)	MCAWW	TAL SL
350.1	Nitrogen, Ammonia	MCAWW	TAL SL
353.1 Preserved	Nitrogen, Nitrate-Nitrite	MCAWW	TAL SL
410.4	COD	MCAWW	TAL SL
415.1	TOC	MCAWW	TAL SL
906.0	Tritium, Total (LSC)	EPA	TAL SL

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.

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

Laboratory References:

TAL SL = TestAmerica St. Louis, 13715 Rider Trail North, Earth City, MO 63045, TEL (314)298-8566

Sample Summary

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22141-1

Lab Sample ID	Client Sample ID	Matrix	Collected	Received
160-22141-1	PZ-111-SD	Water	05/02/17 08:25	05/03/17 12:13
160-22141-2	PZ-109-SS	Water	05/02/17 09:53	05/03/17 12:13
160-22141-3	PZ-210-SD	Water	05/02/17 11:22	05/03/17 12:13
160-22141-4	PZ-210-SS	Water	05/02/17 13:39	05/03/17 12:13
160-22141-5	PZ-211-SD	Water	05/02/17 14:57	05/03/17 12:13
160-22141-6	PZ-211-SS	Water	05/02/17 16:17	05/03/17 12:13
160-22141-7	PZ-202-SS	Water	05/02/17 18:03	05/03/17 12:13
160-22141-8	PZ-209-SD	Water	05/03/17 08:50	05/03/17 12:13
160-22141-9	PZ-209-SS	Water	05/03/17 10:23	05/03/17 12:13
160-22141-10	TRIP BLANK	Water	05/02/17 08:00	05/03/17 12:13
160-22141-11	TRIP BLANK	Water	05/03/17 00:00	05/03/17 12:13

Detection Summary

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22141-1

Client Sample ID: PZ-111-SD — Lab Sample ID: 160-22141-1

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride - DL	12	B	5.0	0.50	mg/L	25		300.0	Total/NA
Fluoride - DL	2.0	H	1.0	0.26	mg/L	10		300.0	Total/NA
Sulfate - DL	44	H	5.0	0.50	mg/L	10		300.0	Total/NA
Iron	900		500	150	ug/L	5		6010C	Total/NA
Barium	110	J	250	75	ug/L	5		6010C	Total/NA
CaHard	220000		12000	3700	ug/L	5		6010C	Total/NA
Calcium	89000		5000	1500	ug/L	5		6010C	Total/NA
Magnesium	54		5.0	1.5	mg/L	5		6010C	Total/NA
Manganese	110		75	20	ug/L	5		6010C	Total/NA
MgHard	220000		21000	6200	ug/L	5		6010C	Total/NA
Sodium	19000		5000	1500	ug/L	5		6010C	Total/NA
Total Hardness	440000		33000	9900	ug/L	5		6010C	Total/NA
Total Dissolved Solids (TDS)	500		5.0	3.5	mg/L	1		160.1	Total/NA
Ammonia	87	B	50	22	ug/L	1		350.1	Total/NA
Chemical Oxygen Demand	3.0	J	5.0	2.4	mg/L	1		410.4	Total/NA
Total Organic Carbon	2.2		1.0	0.72	mg/L	1		415.1	Total/NA

Client Sample ID: PZ-109-SS — Lab Sample ID: 160-22141-2

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride - DL	5.3	B	5.0	0.50	mg/L	25		300.0	Total/NA
Fluoride - DL	2.3	H	1.0	0.26	mg/L	10		300.0	Total/NA
Sulfate - DL	21	H	5.0	0.50	mg/L	10		300.0	Total/NA
Boron	180	J	500	130	ug/L	5		6010C	Total/NA
CaHard	230000		12000	3700	ug/L	5		6010C	Total/NA
Calcium	92000		5000	1500	ug/L	5		6010C	Total/NA
Magnesium	54		5.0	1.5	mg/L	5		6010C	Total/NA
MgHard	220000		21000	6200	ug/L	5		6010C	Total/NA
Sodium	10000		5000	1500	ug/L	5		6010C	Total/NA
Total Hardness	450000		33000	9900	ug/L	5		6010C	Total/NA
Total Dissolved Solids (TDS)	470		5.0	3.5	mg/L	1		160.1	Total/NA
Ammonia	34	J B	50	22	ug/L	1		350.1	Total/NA
Total Organic Carbon	3.7		1.0	0.72	mg/L	1		415.1	Total/NA

Client Sample ID: PZ-210-SD — Lab Sample ID: 160-22141-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Iodide	0.10	J	1.0	0.10	mg/L	1		300.0	Total/NA
Chloride - DL	35	B	5.0	0.50	mg/L	25		300.0	Total/NA
Fluoride - DL	2.0	H	0.50	0.13	mg/L	5		300.0	Total/NA
Sulfate - DL	39	H	2.5	0.25	mg/L	5		300.0	Total/NA
Iron	3500		500	150	ug/L	5		6010C	Total/NA
Barium	76	J	250	75	ug/L	5		6010C	Total/NA
Boron	190	J	500	130	ug/L	5		6010C	Total/NA
CaHard	190000		12000	3700	ug/L	5		6010C	Total/NA
Calcium	75000		5000	1500	ug/L	5		6010C	Total/NA
Magnesium	48		5.0	1.5	mg/L	5		6010C	Total/NA
Manganese	87		75	20	ug/L	5		6010C	Total/NA
MgHard	200000		21000	6200	ug/L	5		6010C	Total/NA
Sodium	71000		5000	1500	ug/L	5		6010C	Total/NA

This Detection Summary does not include radiochemical test results.

Client Sample ID: PZ-210-SD (Continued) — Lab Sample ID: 160-22141-3

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Total Hardness	380000		33000	9900	ug/L	5		6010C	Total/NA
Total Dissolved Solids (TDS)	560		5.0	3.5	mg/L	1		160.1	Total/NA
Chemical Oxygen Demand	15		5.0	2.4	mg/L	1		410.4	Total/NA
Ammonia - DL	2100	B	250	110	ug/L	5		350.1	Total/NA
Total Organic Carbon - DL	7.3		2.0	1.4	mg/L	2		415.1	Total/NA

Client Sample ID: PZ-210-SS — Lab Sample ID: 160-22141-4

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride - DL	22	B	5.0	0.50	mg/L	25		300.0	Total/NA
Fluoride - DL	0.56	H	0.20	0.052	mg/L	2		300.0	Total/NA
Sulfate - DL	7.0	H	1.0	0.10	mg/L	2		300.0	Total/NA
Iron	1300		500	150	ug/L	5		6010C	Total/NA
Barium	89	J	250	75	ug/L	5		6010C	Total/NA
CaHard	220000		12000	3700	ug/L	5		6010C	Total/NA
Calcium	88000		5000	1500	ug/L	5		6010C	Total/NA
Magnesium	47		5.0	1.5	mg/L	5		6010C	Total/NA
Manganese	87		75	20	ug/L	5		6010C	Total/NA
MgHard	190000		21000	6200	ug/L	5		6010C	Total/NA
Sodium	19000		5000	1500	ug/L	5		6010C	Total/NA
Total Hardness	410000		33000	9900	ug/L	5		6010C	Total/NA
Total Dissolved Solids (TDS)	460		5.0	3.5	mg/L	1		160.1	Total/NA
Ammonia	120	B	50	22	ug/L	1		350.1	Total/NA
Chemical Oxygen Demand	13		5.0	2.4	mg/L	1		410.4	Total/NA
Total Organic Carbon - DL	7.9		2.0	1.4	mg/L	2		415.1	Total/NA

Client Sample ID: PZ-211-SD — Lab Sample ID: 160-22141-5

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	3.4	J	5.0	0.25	ug/L	1		8260C	Total/NA
Chloride - DL	26	B	5.0	0.50	mg/L	25		300.0	Total/NA
Fluoride - DL	2.1	H	0.50	0.13	mg/L	5		300.0	Total/NA
Sulfate - DL	59	H	2.5	0.25	mg/L	5		300.0	Total/NA
Iron	150	J	500	150	ug/L	5		6010C	Total/NA
Boron	130	J	500	130	ug/L	5		6010C	Total/NA
CaHard	140000		12000	3700	ug/L	5		6010C	Total/NA
Calcium	58000		5000	1500	ug/L	5		6010C	Total/NA
Magnesium	29		5.0	1.5	mg/L	5		6010C	Total/NA
Manganese	54	J	75	20	ug/L	5		6010C	Total/NA
MgHard	120000		21000	6200	ug/L	5		6010C	Total/NA
Sodium	120000		5000	1500	ug/L	5		6010C	Total/NA
Total Hardness	270000		33000	9900	ug/L	5		6010C	Total/NA
Total Dissolved Solids (TDS)	570		5.0	3.5	mg/L	1		160.1	Total/NA
Ammonia	550	B	50	22	ug/L	1		350.1	Total/NA
Chemical Oxygen Demand	6.0		5.0	2.4	mg/L	1		410.4	Total/NA
Total Organic Carbon	3.4		1.0	0.72	mg/L	1		415.1	Total/NA

Client Sample ID: PZ-211-SS — Lab Sample ID: 160-22141-6

This Detection Summary does not include radiochemical test results.

Client Sample ID: PZ-211-SS (Continued) — Lab Sample ID: 160-22141-6

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Benzene	0.84	J	5.0	0.25	ug/L	1		8260C	Total/NA
Chloride - DL	10	B	5.0	0.50	mg/L	25		300.0	Total/NA
Fluoride - DL	1.7	H	0.50	0.13	mg/L	5		300.0	Total/NA
Sulfate - DL	32	H	2.5	0.25	mg/L	5		300.0	Total/NA
Iron	1100		500	150	ug/L	5		6010C	Total/NA
Boron	450	J	500	130	ug/L	5		6010C	Total/NA
CaHard	180000		12000	3700	ug/L	5		6010C	Total/NA
Calcium	70000		5000	1500	ug/L	5		6010C	Total/NA
Magnesium	43		5.0	1.5	mg/L	5		6010C	Total/NA
Manganese	67	J	75	20	ug/L	5		6010C	Total/NA
MgHard	180000		21000	6200	ug/L	5		6010C	Total/NA
Sodium	25000		5000	1500	ug/L	5		6010C	Total/NA
Total Hardness	350000		33000	9900	ug/L	5		6010C	Total/NA
Total Dissolved Solids (TDS)	420		5.0	3.5	mg/L	1		160.1	Total/NA
Ammonia	180	B	50	22	ug/L	1		350.1	Total/NA
Chemical Oxygen Demand	3.0	J	5.0	2.4	mg/L	1		410.4	Total/NA
Total Organic Carbon	2.8		1.0	0.72	mg/L	1		415.1	Total/NA

Client Sample ID: PZ-202-SS — Lab Sample ID: 160-22141-7

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Acetone	21		20	6.7	ug/L	1		8260C	Total/NA
Ethylbenzene	0.42	J	5.0	0.30	ug/L	1		8260C	Total/NA
Methyl bromide	0.46	J	10	0.40	ug/L	1		8260C	Total/NA
Methyl Ethyl Ketone	3.4	J	20	0.39	ug/L	1		8260C	Total/NA
Toluene	5.4		5.0	1.0	ug/L	1		8260C	Total/NA
Benzene - DL	200		10	0.50	ug/L	2		8260C	Total/NA
Iodide	0.86	J	1.0	0.10	mg/L	1		300.0	Total/NA
Fluoride - DL	0.46	H	0.20	0.052	mg/L	2		300.0	Total/NA
Sulfate - DL	2.2	H	1.0	0.10	mg/L	2		300.0	Total/NA
Chloride - DL2	2300		200	20	mg/L	1000		300.0	Total/NA
Iron	110000		500	150	ug/L	5		6010C	Total/NA
Arsenic	130		50	20	ug/L	5		6010C	Total/NA
Barium	3200		250	75	ug/L	5		6010C	Total/NA
CaHard	1700000		25000	7500	ug/L	10		6010C	Total/NA
Calcium	660000		10000	3000	ug/L	10		6010C	Total/NA
Magnesium	320		5.0	1.5	mg/L	5		6010C	Total/NA
Manganese	2400		75	20	ug/L	5		6010C	Total/NA
MgHard	1300000		21000	6200	ug/L	5		6010C	Total/NA
Nickel	0.073	J	0.20	0.050	mg/L	5		6010C	Total/NA
Sodium	290000		5000	1500	ug/L	5		6010C	Total/NA
Total Hardness	2900000		33000	9900	ug/L	5		6010C	Total/NA
Mercury	0.060	J	0.20	0.060	ug/L	1		7470A	Total/NA
Total Dissolved Solids (TDS)	6600		50	35	mg/L	1		160.1	Total/NA
Ammonia	590	B	50	22	ug/L	1		350.1	Total/NA
Chemical Oxygen Demand - DL	1100		50	24	mg/L	10		410.4	Total/NA
Total Organic Carbon - DL	280		100	72	mg/L	100		415.1	Total/NA

Client Sample ID: PZ-209-SD — Lab Sample ID: 160-22141-8

This Detection Summary does not include radiochemical test results.

Detection Summary

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22141-1

Client Sample ID: PZ-209-SD (Continued) — Lab Sample ID: 160-22141-8

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride - DL	12	B	5.0	0.50	mg/L	25		300.0	Total/NA
Fluoride - DL	2.2	H	0.50	0.13	mg/L	5		300.0	Total/NA
Sulfate - DL	33	H	2.5	0.25	mg/L	5		300.0	Total/NA
Iron	1100		500	150	ug/L	5		6010C	Total/NA
CaHard	180000		12000	3700	ug/L	5		6010C	Total/NA
Calcium	71000		5000	1500	ug/L	5		6010C	Total/NA
Magnesium	43		5.0	1.5	mg/L	5		6010C	Total/NA
Manganese	150		75	20	ug/L	5		6010C	Total/NA
MgHard	180000		21000	6200	ug/L	5		6010C	Total/NA
Sodium	61000		5000	1500	ug/L	5		6010C	Total/NA
Total Hardness	360000		33000	9900	ug/L	5		6010C	Total/NA
Total Dissolved Solids (TDS)	490		5.0	3.5	mg/L	1		160.1	Total/NA
Ammonia	130	B	50	22	ug/L	1		350.1	Total/NA
Total Organic Carbon	2.4		1.0	0.72	mg/L	1		415.1	Total/NA

Client Sample ID: PZ-209-SS — Lab Sample ID: 160-22141-9

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Chloride - DL	2.5		1.0	0.10	mg/L	5		300.0	Total/NA
Fluoride - DL	1.6	H	0.50	0.13	mg/L	5		300.0	Total/NA
Sulfate - DL	23	H	2.5	0.25	mg/L	5		300.0	Total/NA
Iron	540		500	150	ug/L	5		6010C	Total/NA
Barium	95	J	250	75	ug/L	5		6010C	Total/NA
Boron	260	J	500	130	ug/L	5		6010C	Total/NA
CaHard	180000		12000	3700	ug/L	5		6010C	Total/NA
Calcium	74000		5000	1500	ug/L	5		6010C	Total/NA
Magnesium	53		5.0	1.5	mg/L	5		6010C	Total/NA
Manganese	78		75	20	ug/L	5		6010C	Total/NA
MgHard	220000		21000	6200	ug/L	5		6010C	Total/NA
Sodium	12000		5000	1500	ug/L	5		6010C	Total/NA
Total Hardness	400000		33000	9900	ug/L	5		6010C	Total/NA
Total Dissolved Solids (TDS)	420		5.0	3.5	mg/L	1		160.1	Total/NA
Ammonia	170	B	50	22	ug/L	1		350.1	Total/NA
Chemical Oxygen Demand	3.0	J	5.0	2.4	mg/L	1		410.4	Total/NA
Total Organic Carbon	1.9		1.0	0.72	mg/L	1		415.1	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 160-22141-10

Analyte	Result	Qualifier	RL	MDL	Unit	Dil Fac	D	Method	Prep Type
Methyl bromide	0.45	J	10	0.40	ug/L	1		8260C	Total/NA

Client Sample ID: TRIP BLANK — Lab Sample ID: 160-22141-11

No Detections.

This Detection Summary does not include radiochemical test results.

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22141-1

Client Sample ID: PZ-111-SD
Date Collected: 05/02/17 08:25
Date Received: 05/03/17 12:13

Lab Sample ID: 160-22141-1
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/12/17 05:43	1
Acrylonitrile	ND		50	1.7	ug/L			05/12/17 05:43	1
Benzene	ND		5.0	0.25	ug/L			05/12/17 05:43	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/12/17 05:43	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/12/17 05:43	1
Bromoform	ND		5.0	0.37	ug/L			05/12/17 05:43	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/12/17 05:43	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/12/17 05:43	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/12/17 05:43	1
Chloroethane	ND		10	0.38	ug/L			05/12/17 05:43	1
Chloroform	ND		5.0	0.15	ug/L			05/12/17 05:43	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/12/17 05:43	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/12/17 05:43	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/12/17 05:43	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/12/17 05:43	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/12/17 05:43	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/12/17 05:43	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/12/17 05:43	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/12/17 05:43	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/12/17 05:43	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/12/17 05:43	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/12/17 05:43	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/12/17 05:43	1
2-Hexanone	ND		20	0.59	ug/L			05/12/17 05:43	1
Methyl bromide	ND		10	0.40	ug/L			05/12/17 05:43	1
Methyl chloride	ND		10	0.55	ug/L			05/12/17 05:43	1
Methylene bromide	ND		5.0	0.41	ug/L			05/12/17 05:43	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/12/17 05:43	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/12/17 05:43	1
Methyl iodide	ND		5.0	1.5	ug/L			05/12/17 05:43	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/12/17 05:43	1
Styrene	ND		5.0	0.35	ug/L			05/12/17 05:43	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/12/17 05:43	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/12/17 05:43	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/12/17 05:43	1
Toluene	ND		5.0	1.0	ug/L			05/12/17 05:43	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/12/17 05:43	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/12/17 05:43	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/12/17 05:43	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/12/17 05:43	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/12/17 05:43	1
Trichloroethene	ND		5.0	0.29	ug/L			05/12/17 05:43	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/12/17 05:43	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/12/17 05:43	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/12/17 05:43	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/12/17 05:43	1
Xylenes, Total	ND		10	0.85	ug/L			05/12/17 05:43	1

Client Sample ID: PZ-111-SD

Date Collected: 05/02/17 08:25
Date Received: 05/03/17 12:13

Lab Sample ID: 160-22141-1

Matrix: Water

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*71 - 139*		*05/12/17 05:43*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 121*		*05/12/17 05:43*	*1*
1,2-Dichloroethane-d4 (Surr)	*108*		*76 - 121*		*05/12/17 05:43*	*1*
Toluene-d8 (Surr)	*104*		*80 - 129*		*05/12/17 05:43*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	ND		1.0	0.10	mg/L			05/09/17 02:23	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12**	**B**	5.0	0.50	mg/L			05/06/17 06:24	25
Fluoride	**2.0**	**H**	1.0	0.26	mg/L			06/10/17 01:05	10
Sulfate	**44**	**H**	5.0	0.50	mg/L			06/10/17 01:05	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		50	15	ug/L		05/09/17 12:07	05/15/17 22:55	5
Iron	**900**		500	150	ug/L		05/09/17 12:07	05/15/17 22:55	5
Arsenic	ND		50	20	ug/L		05/09/17 12:07	05/15/17 22:55	5
Barium	**110**	**J**	250	75	ug/L		05/09/17 12:07	05/15/17 22:55	5
Beryllium	ND		25	7.5	ug/L		05/09/17 12:07	05/15/17 22:55	5
Boron	ND		500	130	ug/L		05/09/17 12:07	05/15/17 22:55	5
Cadmium	ND		25	7.5	ug/L		05/09/17 12:07	05/15/17 22:55	5
CaHard	**220000**		12000	3700	ug/L		05/09/17 12:07	05/15/17 22:55	5
Calcium	**89000**		5000	1500	ug/L		05/09/17 12:07	05/15/17 22:55	5
Chromium	ND		50	15	ug/L		05/09/17 12:07	05/15/17 22:55	5
Cobalt	ND		250	75	ug/L		05/09/17 12:07	05/15/17 22:55	5
Copper	ND		130	35	ug/L		05/09/17 12:07	05/15/17 22:55	5
Lead	ND		50	15	ug/L		05/09/17 12:07	05/15/17 22:55	5
Magnesium	**54**		5.0	1.5	mg/L		05/09/17 12:07	05/15/17 22:55	5
Manganese	**110**		75	20	ug/L		05/09/17 12:07	05/15/17 22:55	5
MgHard	**220000**		21000	6200	ug/L		05/09/17 12:07	05/15/17 22:55	5
Nickel	ND		0.20	0.050	mg/L		05/09/17 12:07	05/15/17 22:55	5
Phosphorus	ND		1300	380	ug/L		05/09/17 12:07	05/15/17 22:55	5
Selenium	ND		75	40	ug/L		05/09/17 12:07	05/15/17 22:55	5
Silver	ND		50	15	ug/L		05/09/17 12:07	05/15/17 22:55	5
Sodium	**19000**		5000	1500	ug/L		05/09/17 12:07	05/15/17 22:55	5
Thallium	ND		100	25	ug/L		05/09/17 12:07	05/15/17 22:55	5
Total Hardness	**440000**		33000	9900	ug/L		05/09/17 12:07	05/15/17 22:55	5
Vanadium	ND		250	130	ug/L		05/09/17 12:07	05/15/17 22:55	5
Zinc	ND		100	30	ug/L		05/09/17 12:07	05/15/17 22:55	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		05/22/17 09:55	05/22/17 19:42	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**500**		5.0	3.5	mg/L			05/05/17 07:13	1
Ammonia	**87**	**B**	50	22	ug/L			05/25/17 17:12	1

Client Sample ID: PZ-111-SD

Lab Sample ID: 160-22141-1
Date Collected: 05/02/17 08:25
Matrix: Water
Date Received: 05/03/17 12:13

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		50	22	ug/L			05/23/17 16:57	1
Chemical Oxygen Demand	3.0	J	5.0	2.4	mg/L		05/19/17 10:13	05/19/17 14:15	1
Total Organic Carbon	2.2		1.0	0.72	mg/L			05/22/17 18:06	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-37.8	U	137	137	500	256	pCi/L	05/30/17 19:12	05/31/17 10:53	1

Client Sample ID: PZ-109-SS

Lab Sample ID: 160-22141-2
Date Collected: 05/02/17 09:53
Matrix: Water
Date Received: 05/03/17 12:13

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/12/17 06:08	1
Acrylonitrile	ND		50	1.7	ug/L			05/12/17 06:08	1
Benzene	ND		5.0	0.25	ug/L			05/12/17 06:08	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/12/17 06:08	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/12/17 06:08	1
Bromoform	ND		5.0	0.37	ug/L			05/12/17 06:08	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/12/17 06:08	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/12/17 06:08	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/12/17 06:08	1
Chloroethane	ND		10	0.38	ug/L			05/12/17 06:08	1
Chloroform	ND		5.0	0.15	ug/L			05/12/17 06:08	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/12/17 06:08	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/12/17 06:08	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/12/17 06:08	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/12/17 06:08	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/12/17 06:08	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/12/17 06:08	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/12/17 06:08	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/12/17 06:08	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/12/17 06:08	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/12/17 06:08	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/12/17 06:08	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/12/17 06:08	1
2-Hexanone	ND		20	0.59	ug/L			05/12/17 06:08	1
Methyl bromide	ND		10	0.40	ug/L			05/12/17 06:08	1
Methyl chloride	ND		10	0.55	ug/L			05/12/17 06:08	1
Methylene bromide	ND		5.0	0.41	ug/L			05/12/17 06:08	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/12/17 06:08	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/12/17 06:08	1
Methyl iodide	ND		5.0	1.5	ug/L			05/12/17 06:08	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/12/17 06:08	1
Styrene	ND		5.0	0.35	ug/L			05/12/17 06:08	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/12/17 06:08	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/12/17 06:08	1

Client Sample ID: PZ-109-SS
Date Collected: 05/02/17 09:53
Date Received: 05/03/17 12:13

Lab Sample ID: 160-22141-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Tetrachloroethene	ND		5.0	0.28	ug/L			05/12/17 06:08	1
Toluene	ND		5.0	1.0	ug/L			05/12/17 06:08	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/12/17 06:08	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/12/17 06:08	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/12/17 06:08	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/12/17 06:08	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/12/17 06:08	1
Trichloroethene	ND		5.0	0.29	ug/L			05/12/17 06:08	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/12/17 06:08	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/12/17 06:08	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/12/17 06:08	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/12/17 06:08	1
Xylenes, Total	ND		10	0.85	ug/L			05/12/17 06:08	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*101*		*71 - 139*		*05/12/17 06:08*	*1*
Dibromofluoromethane (Surr)	*108*		*80 - 121*		*05/12/17 06:08*	*1*
1,2-Dichloroethane-d4 (Surr)	*107*		*76 - 121*		*05/12/17 06:08*	*1*
Toluene-d8 (Surr)	*103*		*80 - 129*		*05/12/17 06:08*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	ND		1.0	0.10	mg/L			05/09/17 02:52	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**5.3**	**B**	5.0	0.50	mg/L			05/06/17 07:13	25
Fluoride	**2.3**	**H**	1.0	0.26	mg/L			06/10/17 01:52	10
Sulfate	**21**	**H**	5.0	0.50	mg/L			06/10/17 01:52	10

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		50	15	ug/L		05/09/17 12:07	05/15/17 23:26	5
Iron	ND		500	150	ug/L		05/09/17 12:07	05/15/17 23:26	5
Arsenic	ND		50	20	ug/L		05/09/17 12:07	05/15/17 23:26	5
Barium	ND		250	75	ug/L		05/09/17 12:07	05/15/17 23:26	5
Beryllium	ND		25	7.5	ug/L		05/09/17 12:07	05/15/17 23:26	5
Boron	**180**	**J**	500	130	ug/L		05/09/17 12:07	05/15/17 23:26	5
Cadmium	ND		25	7.5	ug/L		05/09/17 12:07	05/15/17 23:26	5
CaHard	**230000**		12000	3700	ug/L		05/09/17 12:07	05/15/17 23:26	5
Calcium	**92000**		5000	1500	ug/L		05/09/17 12:07	05/15/17 23:26	5
Chromium	ND		50	15	ug/L		05/09/17 12:07	05/15/17 23:26	5
Cobalt	ND		250	75	ug/L		05/09/17 12:07	05/15/17 23:26	5
Copper	ND		130	35	ug/L		05/09/17 12:07	05/15/17 23:26	5
Lead	ND		50	15	ug/L		05/09/17 12:07	05/15/17 23:26	5
Magnesium	**54**		5.0	1.5	mg/L		05/09/17 12:07	05/15/17 23:26	5
Manganese	ND		75	20	ug/L		05/09/17 12:07	05/15/17 23:26	5
MgHard	**220000**		21000	6200	ug/L		05/09/17 12:07	05/15/17 23:26	5
Nickel	ND		0.20	0.050	mg/L		05/09/17 12:07	05/15/17 23:26	5
Phosphorus	ND		1300	380	ug/L		05/09/17 12:07	05/15/17 23:26	5

Client Sample ID: PZ-109-SS

Date Collected: 05/02/17 09:53
Date Received: 05/03/17 12:13

Lab Sample ID: 160-22141-2
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Selenium	ND		75	40	ug/L		05/09/17 12:07	05/15/17 23:26	5
Silver	ND		50	15	ug/L		05/09/17 12:07	05/15/17 23:26	5
Sodium	**10000**		5000	1500	ug/L		05/09/17 12:07	05/15/17 23:26	5
Thallium	ND		100	25	ug/L		05/09/17 12:07	05/15/17 23:26	5
Total Hardness	**450000**		33000	9900	ug/L		05/09/17 12:07	05/15/17 23:26	5
Vanadium	ND		250	130	ug/L		05/09/17 12:07	05/15/17 23:26	5
Zinc	ND		100	30	ug/L		05/09/17 12:07	05/15/17 23:26	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		05/22/17 09:55	05/22/17 19:44	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**470**		5.0	3.5	mg/L			05/05/17 07:13	1
Ammonia	**34**	**J B**	50	22	ug/L			05/25/17 17:15	1
Nitrate Nitrite as N	ND		50	22	ug/L			05/23/17 17:01	1
Chemical Oxygen Demand	ND		5.0	2.4	mg/L		05/19/17 10:13	05/19/17 14:15	1
Total Organic Carbon	**3.7**		1.0	0.72	mg/L			05/22/17 18:17	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-98.2	U	132	133	500	261	pCi/L	05/30/17 19:12	05/31/17 11:38	1

Client Sample ID: PZ-210-SD

Date Collected: 05/02/17 11:22
Date Received: 05/03/17 12:13

Lab Sample ID: 160-22141-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/12/17 06:33	1
Acrylonitrile	ND		50	1.7	ug/L			05/12/17 06:33	1
Benzene	ND		5.0	0.25	ug/L			05/12/17 06:33	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/12/17 06:33	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/12/17 06:33	1
Bromoform	ND		5.0	0.37	ug/L			05/12/17 06:33	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/12/17 06:33	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/12/17 06:33	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/12/17 06:33	1
Chloroethane	ND		10	0.38	ug/L			05/12/17 06:33	1
Chloroform	ND		5.0	0.15	ug/L			05/12/17 06:33	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/12/17 06:33	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/12/17 06:33	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/12/17 06:33	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/12/17 06:33	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/12/17 06:33	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/12/17 06:33	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/12/17 06:33	1

Client Sample ID: PZ-210-SD
Date Collected: 05/02/17 11:22
Date Received: 05/03/17 12:13

Lab Sample ID: 160-22141-3
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/12/17 06:33	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/12/17 06:33	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/12/17 06:33	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/12/17 06:33	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/12/17 06:33	1
2-Hexanone	ND		20	0.59	ug/L			05/12/17 06:33	1
Methyl bromide	ND		10	0.40	ug/L			05/12/17 06:33	1
Methyl chloride	ND		10	0.55	ug/L			05/12/17 06:33	1
Methylene bromide	ND		5.0	0.41	ug/L			05/12/17 06:33	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/12/17 06:33	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/12/17 06:33	1
Methyl iodide	ND		5.0	1.5	ug/L			05/12/17 06:33	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/12/17 06:33	1
Styrene	ND		5.0	0.35	ug/L			05/12/17 06:33	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/12/17 06:33	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/12/17 06:33	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/12/17 06:33	1
Toluene	ND		5.0	1.0	ug/L			05/12/17 06:33	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/12/17 06:33	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/12/17 06:33	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/12/17 06:33	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/12/17 06:33	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/12/17 06:33	1
Trichloroethene	ND		5.0	0.29	ug/L			05/12/17 06:33	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/12/17 06:33	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/12/17 06:33	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/12/17 06:33	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/12/17 06:33	1
Xylenes, Total	ND		10	0.85	ug/L			05/12/17 06:33	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*102*		*71 - 139*		*05/12/17 06:33*	*1*
Dibromofluoromethane (Surr)	*106*		*80 - 121*		*05/12/17 06:33*	*1*
1,2-Dichloroethane-d4 (Surr)	*106*		*76 - 121*		*05/12/17 06:33*	*1*
Toluene-d8 (Surr)	*104*		*80 - 129*		*05/12/17 06:33*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	**0.10**	**J**	1.0	0.10	mg/L			05/09/17 03:21	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**35**	**B**	5.0	0.50	mg/L			05/06/17 07:30	25
Fluoride	**2.0**	**H**	0.50	0.13	mg/L			06/10/17 02:07	5
Sulfate	**39**	**H**	2.5	0.25	mg/L			06/10/17 02:07	5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		50	15	ug/L		05/09/17 12:07	05/15/17 23:31	5
Iron	**3500**		500	150	ug/L		05/09/17 12:07	05/15/17 23:31	5

Client Sample ID: PZ-210-SD

Date Collected: 05/02/17 11:22
Date Received: 05/03/17 12:13

Lab Sample ID: 160-22141-3

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Arsenic	ND		50	20	ug/L		05/09/17 12:07	05/15/17 23:31	5
Barium	**76**	**J**	250	75	ug/L		05/09/17 12:07	05/15/17 23:31	5
Beryllium	ND		25	7.5	ug/L		05/09/17 12:07	05/15/17 23:31	5
Boron	**190**	**J**	500	130	ug/L		05/09/17 12:07	05/15/17 23:31	5
Cadmium	ND		25	7.5	ug/L		05/09/17 12:07	05/15/17 23:31	5
CaHard	**190000**		12000	3700	ug/L		05/09/17 12:07	05/15/17 23:31	5
Calcium	**75000**		5000	1500	ug/L		05/09/17 12:07	05/15/17 23:31	5
Chromium	ND		50	15	ug/L		05/09/17 12:07	05/15/17 23:31	5
Cobalt	ND		250	75	ug/L		05/09/17 12:07	05/15/17 23:31	5
Copper	ND		130	35	ug/L		05/09/17 12:07	05/15/17 23:31	5
Lead	ND		50	15	ug/L		05/09/17 12:07	05/15/17 23:31	5
Magnesium	**48**		5.0	1.5	mg/L		05/09/17 12:07	05/15/17 23:31	5
Manganese	**87**		75	20	ug/L		05/09/17 12:07	05/15/17 23:31	5
MgHard	**200000**		21000	6200	ug/L		05/09/17 12:07	05/15/17 23:31	5
Nickel	ND		0.20	0.050	mg/L		05/09/17 12:07	05/15/17 23:31	5
Phosphorus	ND		1300	380	ug/L		05/09/17 12:07	05/15/17 23:31	5
Selenium	ND		75	40	ug/L		05/09/17 12:07	05/15/17 23:31	5
Silver	ND		50	15	ug/L		05/09/17 12:07	05/15/17 23:31	5
Sodium	**71000**		5000	1500	ug/L		05/09/17 12:07	05/15/17 23:31	5
Thallium	ND		100	25	ug/L		05/09/17 12:07	05/15/17 23:31	5
Total Hardness	**380000**		33000	9900	ug/L		05/09/17 12:07	05/15/17 23:31	5
Vanadium	ND		250	130	ug/L		05/09/17 12:07	05/15/17 23:31	5
Zinc	ND		100	30	ug/L		05/09/17 12:07	05/15/17 23:31	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		05/22/17 09:55	05/22/17 19:46	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**560**		5.0	3.5	mg/L			05/05/17 07:13	1
Nitrate Nitrite as N	ND		50	22	ug/L			05/23/17 17:04	1
Chemical Oxygen Demand	**15**		5.0	2.4	mg/L		05/19/17 10:13	05/19/17 14:15	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	**2100**	**B**	250	110	ug/L			05/25/17 19:20	5
Total Organic Carbon	**7.3**		2.0	1.4	mg/L			05/22/17 18:29	2

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	125	U	153	154	500	253	pCi/L	05/30/17 19:12	05/31/17 12:23	1

Client Sample ID: PZ-210-SS
Date Collected: 05/02/17 13:39
Date Received: 05/03/17 12:13

Lab Sample ID: 160-22141-4
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/12/17 06:58	1
Acrylonitrile	ND		50	1.7	ug/L			05/12/17 06:58	1
Benzene	ND		5.0	0.25	ug/L			05/12/17 06:58	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/12/17 06:58	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/12/17 06:58	1
Bromoform	ND		5.0	0.37	ug/L			05/12/17 06:58	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/12/17 06:58	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/12/17 06:58	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/12/17 06:58	1
Chloroethane	ND		10	0.38	ug/L			05/12/17 06:58	1
Chloroform	ND		5.0	0.15	ug/L			05/12/17 06:58	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/12/17 06:58	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/12/17 06:58	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/12/17 06:58	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/12/17 06:58	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/12/17 06:58	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/12/17 06:58	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/12/17 06:58	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/12/17 06:58	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/12/17 06:58	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/12/17 06:58	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/12/17 06:58	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/12/17 06:58	1
2-Hexanone	ND		20	0.59	ug/L			05/12/17 06:58	1
Methyl bromide	ND		10	0.40	ug/L			05/12/17 06:58	1
Methyl chloride	ND		10	0.55	ug/L			05/12/17 06:58	1
Methylene bromide	ND		5.0	0.41	ug/L			05/12/17 06:58	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/12/17 06:58	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/12/17 06:58	1
Methyl iodide	ND		5.0	1.5	ug/L			05/12/17 06:58	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/12/17 06:58	1
Styrene	ND		5.0	0.35	ug/L			05/12/17 06:58	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/12/17 06:58	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/12/17 06:58	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/12/17 06:58	1
Toluene	ND		5.0	1.0	ug/L			05/12/17 06:58	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/12/17 06:58	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/12/17 06:58	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/12/17 06:58	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/12/17 06:58	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/12/17 06:58	1
Trichloroethene	ND		5.0	0.29	ug/L			05/12/17 06:58	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/12/17 06:58	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/12/17 06:58	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/12/17 06:58	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/12/17 06:58	1
Xylenes, Total	ND		10	0.85	ug/L			05/12/17 06:58	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*71 - 139*		*05/12/17 06:58*	*1*

Client Sample ID: PZ-210-SS

Date Collected: 05/02/17 13:39
Date Received: 05/03/17 12:13

Lab Sample ID: 160-22141-4

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
Dibromofluoromethane (Surr)	*107*		*80 - 121*		*05/12/17 06:58*	*1*
1,2-Dichloroethane-d4 (Surr)	*105*		*76 - 121*		*05/12/17 06:58*	*1*
Toluene-d8 (Surr)	*102*		*80 - 129*		*05/12/17 06:58*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	ND		1.0	0.10	mg/L			05/09/17 03:50	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**22**	**B**	5.0	0.50	mg/L			05/06/17 07:46	25
Fluoride	**0.56**	**H**	0.20	0.052	mg/L			06/10/17 02:23	2
Sulfate	**7.0**	**H**	1.0	0.10	mg/L			06/10/17 02:23	2

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		50	15	ug/L		05/09/17 12:07	05/15/17 23:35	5
Iron	**1300**		500	150	ug/L		05/09/17 12:07	05/15/17 23:35	5
Arsenic	ND		50	20	ug/L		05/09/17 12:07	05/15/17 23:35	5
Barium	**89**	**J**	250	75	ug/L		05/09/17 12:07	05/15/17 23:35	5
Beryllium	ND		25	7.5	ug/L		05/09/17 12:07	05/15/17 23:35	5
Boron	ND		500	130	ug/L		05/09/17 12:07	05/15/17 23:35	5
Cadmium	ND		25	7.5	ug/L		05/09/17 12:07	05/15/17 23:35	5
CaHard	**220000**		12000	3700	ug/L		05/09/17 12:07	05/15/17 23:35	5
Calcium	**88000**		5000	1500	ug/L		05/09/17 12:07	05/15/17 23:35	5
Chromium	ND		50	15	ug/L		05/09/17 12:07	05/15/17 23:35	5
Cobalt	ND		250	75	ug/L		05/09/17 12:07	05/15/17 23:35	5
Copper	ND		130	35	ug/L		05/09/17 12:07	05/15/17 23:35	5
Lead	ND		50	15	ug/L		05/09/17 12:07	05/15/17 23:35	5
Magnesium	**47**		5.0	1.5	mg/L		05/09/17 12:07	05/15/17 23:35	5
Manganese	**87**		75	20	ug/L		05/09/17 12:07	05/15/17 23:35	5
MgHard	**190000**		21000	6200	ug/L		05/09/17 12:07	05/15/17 23:35	5
Nickel	ND		0.20	0.050	mg/L		05/09/17 12:07	05/15/17 23:35	5
Phosphorus	ND		1300	380	ug/L		05/09/17 12:07	05/15/17 23:35	5
Selenium	ND		75	40	ug/L		05/09/17 12:07	05/15/17 23:35	5
Silver	ND		50	15	ug/L		05/09/17 12:07	05/15/17 23:35	5
Sodium	**19000**		5000	1500	ug/L		05/09/17 12:07	05/15/17 23:35	5
Thallium	ND		100	25	ug/L		05/09/17 12:07	05/15/17 23:35	5
Total Hardness	**410000**		33000	9900	ug/L		05/09/17 12:07	05/15/17 23:35	5
Vanadium	ND		250	130	ug/L		05/09/17 12:07	05/15/17 23:35	5
Zinc	ND		100	30	ug/L		05/09/17 12:07	05/15/17 23:35	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		05/22/17 09:55	05/22/17 19:48	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**460**		5.0	3.5	mg/L			05/05/17 07:13	1
Ammonia	**120**	**B**	50	22	ug/L			05/25/17 17:20	1

Client Sample ID: PZ-210-SS

Date Collected: 05/02/17 13:39
Date Received: 05/03/17 12:13

Lab Sample ID: 160-22141-4
Matrix: Water

General Chemistry (Continued)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	ND		50	22	ug/L			05/23/17 17:07	1
Chemical Oxygen Demand	**13**		5.0	2.4	mg/L		05/19/17 10:13	05/19/17 14:15	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Organic Carbon	**7.9**		2.0	1.4	mg/L			05/22/17 18:40	2

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	81.1	U	152	152	500	261	pCi/L	05/30/17 19:12	05/31/17 12:45	1

Client Sample ID: PZ-211-SD

Date Collected: 05/02/17 14:57
Date Received: 05/03/17 12:13

Lab Sample ID: 160-22141-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/14/17 18:30	1
Acrylonitrile	ND		50	1.7	ug/L			05/14/17 18:30	1
Benzene	**3.4**	**J**	5.0	0.25	ug/L			05/14/17 18:30	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/14/17 18:30	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/14/17 18:30	1
Bromoform	ND		5.0	0.37	ug/L			05/14/17 18:30	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/14/17 18:30	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/14/17 18:30	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/14/17 18:30	1
Chloroethane	ND		10	0.38	ug/L			05/14/17 18:30	1
Chloroform	ND		5.0	0.15	ug/L			05/14/17 18:30	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/14/17 18:30	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/14/17 18:30	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/14/17 18:30	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/14/17 18:30	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/14/17 18:30	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/14/17 18:30	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/14/17 18:30	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/14/17 18:30	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/14/17 18:30	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/14/17 18:30	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/14/17 18:30	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/14/17 18:30	1
2-Hexanone	ND		20	0.59	ug/L			05/14/17 18:30	1
Methyl bromide	ND		10	0.40	ug/L			05/14/17 18:30	1
Methyl chloride	ND		10	0.55	ug/L			05/14/17 18:30	1
Methylene bromide	ND		5.0	0.41	ug/L			05/14/17 18:30	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/14/17 18:30	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/14/17 18:30	1
Methyl iodide	ND		5.0	1.5	ug/L			05/14/17 18:30	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/14/17 18:30	1

Client Sample ID: PZ-211-SD

Date Collected: 05/02/17 14:57
Date Received: 05/03/17 12:13

Lab Sample ID: 160-22141-5

Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Styrene	ND		5.0	0.35	ug/L			05/14/17 18:30	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/14/17 18:30	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/14/17 18:30	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/14/17 18:30	1
Toluene	ND		5.0	1.0	ug/L			05/14/17 18:30	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/14/17 18:30	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/14/17 18:30	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/14/17 18:30	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/14/17 18:30	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/14/17 18:30	1
Trichloroethene	ND		5.0	0.29	ug/L			05/14/17 18:30	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/14/17 18:30	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/14/17 18:30	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/14/17 18:30	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/14/17 18:30	1
Xylenes, Total	ND		10	0.85	ug/L			05/14/17 18:30	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*95*		*71 - 139*		*05/14/17 18:30*	*1*
Dibromofluoromethane (Surr)	*98*		*80 - 121*		*05/14/17 18:30*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*76 - 121*		*05/14/17 18:30*	*1*
Toluene-d8 (Surr)	*94*		*80 - 129*		*05/14/17 18:30*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	ND		1.0	0.10	mg/L			05/09/17 04:19	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**26**	**B**	5.0	0.50	mg/L			05/06/17 08:03	25
Fluoride	**2.1**	**H**	0.50	0.13	mg/L			06/10/17 02:38	5
Sulfate	**59**	**H**	2.5	0.25	mg/L			06/10/17 02:38	5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		50	15	ug/L		05/09/17 12:07	05/15/17 23:40	5
Iron	**150**	**J**	500	150	ug/L		05/09/17 12:07	05/15/17 23:40	5
Arsenic	ND		50	20	ug/L		05/09/17 12:07	05/15/17 23:40	5
Barium	ND		250	75	ug/L		05/09/17 12:07	05/15/17 23:40	5
Beryllium	ND		25	7.5	ug/L		05/09/17 12:07	05/15/17 23:40	5
Boron	**130**	**J**	500	130	ug/L		05/09/17 12:07	05/15/17 23:40	5
Cadmium	ND		25	7.5	ug/L		05/09/17 12:07	05/15/17 23:40	5
CaHard	**140000**		12000	3700	ug/L		05/09/17 12:07	05/15/17 23:40	5
Calcium	**58000**		5000	1500	ug/L		05/09/17 12:07	05/15/17 23:40	5
Chromium	ND		50	15	ug/L		05/09/17 12:07	05/15/17 23:40	5
Cobalt	ND		250	75	ug/L		05/09/17 12:07	05/15/17 23:40	5
Copper	ND		130	35	ug/L		05/09/17 12:07	05/15/17 23:40	5
Lead	ND		50	15	ug/L		05/09/17 12:07	05/15/17 23:40	5
Magnesium	**29**		5.0	1.5	mg/L		05/09/17 12:07	05/15/17 23:40	5
Manganese	**54**	**J**	75	20	ug/L		05/09/17 12:07	05/15/17 23:40	5

Client Sample ID: PZ-211-SD

Date Collected: 05/02/17 14:57
Date Received: 05/03/17 12:13

Lab Sample ID: 160-22141-5
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
MgHard	**120000**		21000	6200	ug/L		05/09/17 12:07	05/15/17 23:40	5
Nickel	ND		0.20	0.050	mg/L		05/09/17 12:07	05/15/17 23:40	5
Phosphorus	ND		1300	380	ug/L		05/09/17 12:07	05/15/17 23:40	5
Selenium	ND		75	40	ug/L		05/09/17 12:07	05/15/17 23:40	5
Silver	ND		50	15	ug/L		05/09/17 12:07	05/15/17 23:40	5
Sodium	**120000**		5000	1500	ug/L		05/09/17 12:07	05/15/17 23:40	5
Thallium	ND		100	25	ug/L		05/09/17 12:07	05/15/17 23:40	5
Total Hardness	**270000**		33000	9900	ug/L		05/09/17 12:07	05/15/17 23:40	5
Vanadium	ND		250	130	ug/L		05/09/17 12:07	05/15/17 23:40	5
Zinc	ND		100	30	ug/L		05/09/17 12:07	05/15/17 23:40	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		05/22/17 09:55	05/22/17 19:50	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**570**		5.0	3.5	mg/L			05/05/17 07:13	1
Ammonia	**550**	**B**	50	22	ug/L			05/25/17 17:22	1
Nitrate Nitrite as N	ND		50	22	ug/L			05/23/17 17:10	1
Chemical Oxygen Demand	**6.0**		5.0	2.4	mg/L		05/19/17 10:13	05/19/17 14:15	1
Total Organic Carbon	**3.4**		1.0	0.72	mg/L			05/22/17 18:52	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	**526**		191	196	500	258	pCi/L	05/30/17 19:12	05/31/17 13:08	1

Client Sample ID: PZ-211-SS

Date Collected: 05/02/17 16:17
Date Received: 05/03/17 12:13

Lab Sample ID: 160-22141-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/14/17 18:55	1
Acrylonitrile	ND		50	1.7	ug/L			05/14/17 18:55	1
Benzene	**0.84**	**J**	5.0	0.25	ug/L			05/14/17 18:55	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/14/17 18:55	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/14/17 18:55	1
Bromoform	ND		5.0	0.37	ug/L			05/14/17 18:55	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/14/17 18:55	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/14/17 18:55	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/14/17 18:55	1
Chloroethane	ND		10	0.38	ug/L			05/14/17 18:55	1
Chloroform	ND		5.0	0.15	ug/L			05/14/17 18:55	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/14/17 18:55	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/14/17 18:55	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/14/17 18:55	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/14/17 18:55	1

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22141-1

Client Sample ID: PZ-211-SS
Date Collected: 05/02/17 16:17
Date Received: 05/03/17 12:13

Lab Sample ID: 160-22141-6
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/14/17 18:55	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/14/17 18:55	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/14/17 18:55	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/14/17 18:55	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/14/17 18:55	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/14/17 18:55	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/14/17 18:55	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/14/17 18:55	1
2-Hexanone	ND		20	0.59	ug/L			05/14/17 18:55	1
Methyl bromide	ND		10	0.40	ug/L			05/14/17 18:55	1
Methyl chloride	ND		10	0.55	ug/L			05/14/17 18:55	1
Methylene bromide	ND		5.0	0.41	ug/L			05/14/17 18:55	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/14/17 18:55	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/14/17 18:55	1
Methyl iodide	ND		5.0	1.5	ug/L			05/14/17 18:55	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/14/17 18:55	1
Styrene	ND		5.0	0.35	ug/L			05/14/17 18:55	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/14/17 18:55	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/14/17 18:55	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/14/17 18:55	1
Toluene	ND		5.0	1.0	ug/L			05/14/17 18:55	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/14/17 18:55	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/14/17 18:55	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/14/17 18:55	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/14/17 18:55	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/14/17 18:55	1
Trichloroethene	ND		5.0	0.29	ug/L			05/14/17 18:55	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/14/17 18:55	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/14/17 18:55	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/14/17 18:55	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/14/17 18:55	1
Xylenes, Total	ND		10	0.85	ug/L			05/14/17 18:55	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*97*		*71 - 139*		*05/14/17 18:55*	*1*
Dibromofluoromethane (Surr)	*97*		*80 - 121*		*05/14/17 18:55*	*1*
1,2-Dichloroethane-d4 (Surr)	*97*		*76 - 121*		*05/14/17 18:55*	*1*
Toluene-d8 (Surr)	*94*		*80 - 129*		*05/14/17 18:55*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	ND		1.0	0.10	mg/L			05/09/17 05:16	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**10**	**B**	5.0	0.50	mg/L			05/06/17 08:19	25
Fluoride	**1.7**	**H**	0.50	0.13	mg/L			06/10/17 02:53	5
Sulfate	**32**	**H**	2.5	0.25	mg/L			06/10/17 02:53	5

Client Sample Results

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22141-1

Client Sample ID: PZ-211-SS

Date Collected: 05/02/17 16:17
Date Received: 05/03/17 12:13

Lab Sample ID: 160-22141-6

Matrix: Water

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		50	15	ug/L		05/09/17 12:07	05/15/17 23:45	5
Iron	**1100**		500	150	ug/L		05/09/17 12:07	05/15/17 23:45	5
Arsenic	ND		50	20	ug/L		05/09/17 12:07	05/15/17 23:45	5
Barium	ND		250	75	ug/L		05/09/17 12:07	05/15/17 23:45	5
Beryllium	ND		25	7.5	ug/L		05/09/17 12:07	05/15/17 23:45	5
Boron	**450**	**J**	500	130	ug/L		05/09/17 12:07	05/15/17 23:45	5
Cadmium	ND		25	7.5	ug/L		05/09/17 12:07	05/15/17 23:45	5
CaHard	**180000**		12000	3700	ug/L		05/09/17 12:07	05/15/17 23:45	5
Calcium	**70000**		5000	1500	ug/L		05/09/17 12:07	05/15/17 23:45	5
Chromium	ND		50	15	ug/L		05/09/17 12:07	05/15/17 23:45	5
Cobalt	ND		250	75	ug/L		05/09/17 12:07	05/15/17 23:45	5
Copper	ND		130	35	ug/L		05/09/17 12:07	05/15/17 23:45	5
Lead	ND		50	15	ug/L		05/09/17 12:07	05/15/17 23:45	5
Magnesium	**43**		5.0	1.5	mg/L		05/09/17 12:07	05/15/17 23:45	5
Manganese	**67**	**J**	75	20	ug/L		05/09/17 12:07	05/15/17 23:45	5
MgHard	**180000**		21000	6200	ug/L		05/09/17 12:07	05/15/17 23:45	5
Nickel	ND		0.20	0.050	mg/L		05/09/17 12:07	05/15/17 23:45	5
Phosphorus	ND		1300	380	ug/L		05/09/17 12:07	05/15/17 23:45	5
Selenium	ND		75	40	ug/L		05/09/17 12:07	05/15/17 23:45	5
Silver	ND		50	15	ug/L		05/09/17 12:07	05/15/17 23:45	5
Sodium	**25000**		5000	1500	ug/L		05/09/17 12:07	05/15/17 23:45	5
Thallium	ND		100	25	ug/L		05/09/17 12:07	05/15/17 23:45	5
Total Hardness	**350000**		33000	9900	ug/L		05/09/17 12:07	05/15/17 23:45	5
Vanadium	ND		250	130	ug/L		05/09/17 12:07	05/15/17 23:45	5
Zinc	ND		100	30	ug/L		05/09/17 12:07	05/15/17 23:45	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		05/22/17 09:55	05/22/17 19:52	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**420**		5.0	3.5	mg/L			05/08/17 07:53	1
Ammonia	**180**	**B**	50	22	ug/L			05/25/17 17:24	1
Nitrate Nitrite as N	ND		50	22	ug/L			05/23/17 17:13	1
Chemical Oxygen Demand	**3.0**	**J**	5.0	2.4	mg/L		05/30/17 08:15	05/30/17 14:00	1
Total Organic Carbon	**2.8**		1.0	0.72	mg/L			05/22/17 19:03	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	112	U	155	155	500	260	pCi/L	05/30/17 19:12	05/31/17 13:31	1

Client Sample ID: PZ-202-SS
Date Collected: 05/02/17 18:03
Date Received: 05/03/17 12:13

Lab Sample ID: 160-22141-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	**21**		20	6.7	ug/L			05/10/17 07:05	1
Acrylonitrile	ND		50	1.7	ug/L			05/10/17 07:05	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/10/17 07:05	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/10/17 07:05	1
Bromoform	ND		5.0	0.37	ug/L			05/10/17 07:05	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/10/17 07:05	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/10/17 07:05	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/10/17 07:05	1
Chloroethane	ND		10	0.38	ug/L			05/10/17 07:05	1
Chloroform	ND		5.0	0.15	ug/L			05/10/17 07:05	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/10/17 07:05	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/10/17 07:05	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/10/17 07:05	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/10/17 07:05	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/10/17 07:05	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/10/17 07:05	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/10/17 07:05	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/10/17 07:05	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/10/17 07:05	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/10/17 07:05	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/10/17 07:05	1
Ethylbenzene	**0.42**	**J**	5.0	0.30	ug/L			05/10/17 07:05	1
2-Hexanone	ND		20	0.59	ug/L			05/10/17 07:05	1
Methyl bromide	**0.46**	**J**	10	0.40	ug/L			05/10/17 07:05	1
Methyl chloride	ND		10	0.55	ug/L			05/10/17 07:05	1
Methylene bromide	ND		5.0	0.41	ug/L			05/10/17 07:05	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/10/17 07:05	1
Methyl Ethyl Ketone	**3.4**	**J**	20	0.39	ug/L			05/10/17 07:05	1
Methyl iodide	ND		5.0	1.5	ug/L			05/10/17 07:05	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/10/17 07:05	1
Styrene	ND		5.0	0.35	ug/L			05/10/17 07:05	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/10/17 07:05	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/10/17 07:05	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/10/17 07:05	1
Toluene	**5.4**		5.0	1.0	ug/L			05/10/17 07:05	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/10/17 07:05	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/10/17 07:05	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/10/17 07:05	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/10/17 07:05	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/10/17 07:05	1
Trichloroethene	ND		5.0	0.29	ug/L			05/10/17 07:05	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/10/17 07:05	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/10/17 07:05	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/10/17 07:05	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/10/17 07:05	1
Xylenes, Total	ND		10	0.85	ug/L			05/10/17 07:05	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*121*		*71 - 139*		*05/10/17 07:05*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 121*		*05/10/17 07:05*	*1*

Client Sample ID: PZ-202-SS

Date Collected: 05/02/17 18:03
Date Received: 05/03/17 12:13

Lab Sample ID: 160-22141-7

Matrix: Water

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

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
1,2-Dichloroethane-d4 (Surr)	*105*		*76 - 121*		*05/10/17 07:05*	*1*
Toluene-d8 (Surr)	*111*		*80 - 129*		*05/10/17 07:05*	*1*

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Benzene	**200**		10	0.50	ug/L			05/12/17 05:18	2

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*99*		*71 - 139*		*05/12/17 05:18*	*2*
Dibromofluoromethane (Surr)	*102*		*80 - 121*		*05/12/17 05:18*	*2*
1,2-Dichloroethane-d4 (Surr)	*98*		*76 - 121*		*05/12/17 05:18*	*2*
Toluene-d8 (Surr)	*100*		*80 - 129*		*05/12/17 05:18*	*2*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	**0.86**	**J**	1.0	0.10	mg/L			05/09/17 05:45	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	**0.46**	**H**	0.20	0.052	mg/L			06/10/17 03:09	2
Sulfate	**2.2**	**H**	1.0	0.10	mg/L			06/10/17 03:09	2

Method: 300.0 - Anions, Ion Chromatography - DL2

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2300**		200	20	mg/L			05/09/17 11:37	1000

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		50	15	ug/L		05/09/17 12:07	05/15/17 23:49	5
Iron	**110000**		500	150	ug/L		05/09/17 12:07	05/15/17 23:49	5
Arsenic	**130**		50	20	ug/L		05/09/17 12:07	05/15/17 23:49	5
Barium	**3200**		250	75	ug/L		05/09/17 12:07	05/15/17 23:49	5
Beryllium	ND		25	7.5	ug/L		05/09/17 12:07	05/15/17 23:49	5
Boron	ND		500	130	ug/L		05/09/17 12:07	05/15/17 23:49	5
Cadmium	ND		25	7.5	ug/L		05/09/17 12:07	05/15/17 23:49	5
CaHard	**1700000**		25000	7500	ug/L		05/09/17 12:07	06/05/17 19:01	10
Calcium	**660000**		10000	3000	ug/L		05/09/17 12:07	06/05/17 19:01	10
Chromium	ND		50	15	ug/L		05/09/17 12:07	05/15/17 23:49	5
Cobalt	ND		250	75	ug/L		05/09/17 12:07	05/15/17 23:49	5
Copper	ND		130	35	ug/L		05/09/17 12:07	05/15/17 23:49	5
Lead	ND		50	15	ug/L		05/09/17 12:07	05/15/17 23:49	5
Magnesium	**320**		5.0	1.5	mg/L		05/09/17 12:07	05/15/17 23:49	5
Manganese	**2400**		75	20	ug/L		05/09/17 12:07	05/15/17 23:49	5
MgHard	**1300000**		21000	6200	ug/L		05/09/17 12:07	05/15/17 23:49	5
Nickel	**0.073**	**J**	0.20	0.050	mg/L		05/09/17 12:07	05/15/17 23:49	5
Phosphorus	ND		1300	380	ug/L		05/09/17 12:07	05/15/17 23:49	5
Selenium	ND		75	40	ug/L		05/09/17 12:07	05/15/17 23:49	5
Silver	ND		50	15	ug/L		05/09/17 12:07	05/15/17 23:49	5
Sodium	**290000**		5000	1500	ug/L		05/09/17 12:07	05/15/17 23:49	5
Thallium	ND		100	25	ug/L		05/09/17 12:07	05/15/17 23:49	5

Client Sample ID: PZ-202-SS

Date Collected: 05/02/17 18:03
Date Received: 05/03/17 12:13

Lab Sample ID: 160-22141-7
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Hardness	**2900000**		33000	9900	ug/L		05/09/17 12:07	05/15/17 23:49	5
Vanadium	ND		250	130	ug/L		05/09/17 12:07	05/15/17 23:49	5
Zinc	ND		100	30	ug/L		05/09/17 12:07	05/15/17 23:49	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	**0.060**	**J**	0.20	0.060	ug/L		05/22/17 09:55	05/22/17 19:54	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**6600**		50	35	mg/L			05/08/17 07:53	1
Ammonia	**590**	**B**	50	22	ug/L			05/25/17 17:27	1
Nitrate Nitrite as N	ND		50	22	ug/L			05/23/17 19:21	1

General Chemistry - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	**1100**		50	24	mg/L		05/30/17 08:15	05/30/17 14:00	10
Total Organic Carbon	**280**		100	72	mg/L			05/22/17 19:57	100

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	**24100**		876	2290	500	260	pCi/L	05/30/17 19:12	05/31/17 13:53	1

Client Sample ID: PZ-209-SD

Date Collected: 05/03/17 08:50
Date Received: 05/03/17 12:13

Lab Sample ID: 160-22141-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/10/17 06:40	1
Acrylonitrile	ND		50	1.7	ug/L			05/10/17 06:40	1
Benzene	ND		5.0	0.25	ug/L			05/10/17 06:40	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/10/17 06:40	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/10/17 06:40	1
Bromoform	ND		5.0	0.37	ug/L			05/10/17 06:40	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/10/17 06:40	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/10/17 06:40	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/10/17 06:40	1
Chloroethane	ND		10	0.38	ug/L			05/10/17 06:40	1
Chloroform	ND		5.0	0.15	ug/L			05/10/17 06:40	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/10/17 06:40	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/10/17 06:40	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/10/17 06:40	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/10/17 06:40	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/10/17 06:40	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/10/17 06:40	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/10/17 06:40	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/10/17 06:40	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/10/17 06:40	1

Client Sample ID: PZ-209-SD
Date Collected: 05/03/17 08:50
Date Received: 05/03/17 12:13

Lab Sample ID: 160-22141-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/10/17 06:40	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/10/17 06:40	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/10/17 06:40	1
2-Hexanone	ND		20	0.59	ug/L			05/10/17 06:40	1
Methyl bromide	ND		10	0.40	ug/L			05/10/17 06:40	1
Methyl chloride	ND		10	0.55	ug/L			05/10/17 06:40	1
Methylene bromide	ND		5.0	0.41	ug/L			05/10/17 06:40	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/10/17 06:40	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/10/17 06:40	1
Methyl iodide	ND		5.0	1.5	ug/L			05/10/17 06:40	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/10/17 06:40	1
Styrene	ND		5.0	0.35	ug/L			05/10/17 06:40	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/10/17 06:40	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/10/17 06:40	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/10/17 06:40	1
Toluene	ND		5.0	1.0	ug/L			05/10/17 06:40	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/10/17 06:40	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/10/17 06:40	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/10/17 06:40	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/10/17 06:40	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/10/17 06:40	1
Trichloroethene	ND		5.0	0.29	ug/L			05/10/17 06:40	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/10/17 06:40	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/10/17 06:40	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/10/17 06:40	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/10/17 06:40	1
Xylenes, Total	ND		10	0.85	ug/L			05/10/17 06:40	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*113*		*71 - 139*		*05/10/17 06:40*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 121*		*05/10/17 06:40*	*1*
1,2-Dichloroethane-d4 (Surr)	*98*		*76 - 121*		*05/10/17 06:40*	*1*
Toluene-d8 (Surr)	*103*		*80 - 129*		*05/10/17 06:40*	*1*

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	ND		1.0	0.10	mg/L			05/09/17 06:14	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**12**	**B**	5.0	0.50	mg/L			05/06/17 08:52	25
Fluoride	**2.2**	**H**	0.50	0.13	mg/L			06/10/17 03:24	5
Sulfate	**33**	**H**	2.5	0.25	mg/L			06/10/17 03:24	5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		50	15	ug/L		05/09/17 12:07	05/15/17 23:54	5
Iron	**1100**		500	150	ug/L		05/09/17 12:07	05/15/17 23:54	5
Arsenic	ND		50	20	ug/L		05/09/17 12:07	05/15/17 23:54	5
Barium	ND		250	75	ug/L		05/09/17 12:07	05/15/17 23:54	5

Client Sample ID: PZ-209-SD

Date Collected: 05/03/17 08:50
Date Received: 05/03/17 12:13

Lab Sample ID: 160-22141-8
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Beryllium	ND		25	7.5	ug/L		05/09/17 12:07	05/15/17 23:54	5
Boron	ND		500	130	ug/L		05/09/17 12:07	05/15/17 23:54	5
Cadmium	ND		25	7.5	ug/L		05/09/17 12:07	05/15/17 23:54	5
CaHard	**180000**		12000	3700	ug/L		05/09/17 12:07	05/15/17 23:54	5
Calcium	**71000**		5000	1500	ug/L		05/09/17 12:07	05/15/17 23:54	5
Chromium	ND		50	15	ug/L		05/09/17 12:07	05/15/17 23:54	5
Cobalt	ND		250	75	ug/L		05/09/17 12:07	05/15/17 23:54	5
Copper	ND		130	35	ug/L		05/09/17 12:07	05/15/17 23:54	5
Lead	ND		50	15	ug/L		05/09/17 12:07	05/15/17 23:54	5
Magnesium	**43**		5.0	1.5	mg/L		05/09/17 12:07	05/15/17 23:54	5
Manganese	**150**		75	20	ug/L		05/09/17 12:07	05/15/17 23:54	5
MgHard	**180000**		21000	6200	ug/L		05/09/17 12:07	05/15/17 23:54	5
Nickel	ND		0.20	0.050	mg/L		05/09/17 12:07	05/15/17 23:54	5
Phosphorus	ND		1300	380	ug/L		05/09/17 12:07	05/15/17 23:54	5
Selenium	ND		75	40	ug/L		05/09/17 12:07	05/15/17 23:54	5
Silver	ND		50	15	ug/L		05/09/17 12:07	05/15/17 23:54	5
Sodium	**61000**		5000	1500	ug/L		05/09/17 12:07	05/15/17 23:54	5
Thallium	ND		100	25	ug/L		05/09/17 12:07	05/15/17 23:54	5
Total Hardness	**360000**		33000	9900	ug/L		05/09/17 12:07	05/15/17 23:54	5
Vanadium	ND		250	130	ug/L		05/09/17 12:07	05/15/17 23:54	5
Zinc	ND		100	30	ug/L		05/09/17 12:07	05/15/17 23:54	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		05/22/17 09:55	05/22/17 19:56	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**490**		5.0	3.5	mg/L			05/08/17 07:53	1
Ammonia	**130**	**B**	50	22	ug/L			05/25/17 17:34	1
Nitrate Nitrite as N	ND		50	22	ug/L			05/23/17 17:25	1
Chemical Oxygen Demand	ND		5.0	2.4	mg/L		05/30/17 08:15	05/30/17 14:00	1
Total Organic Carbon	**2.4**		1.0	0.72	mg/L			05/22/17 20:08	1

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-38.3	U	142	142	500	268	pCi/L	05/30/17 19:12	05/31/17 14:16	1

Client Sample ID: PZ-209-SS

Date Collected: 05/03/17 10:23
Date Received: 05/03/17 12:13

Lab Sample ID: 160-22141-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/10/17 06:14	1
Acrylonitrile	ND		50	1.7	ug/L			05/10/17 06:14	1
Benzene	ND		5.0	0.25	ug/L			05/10/17 06:14	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/10/17 06:14	1

Client Sample ID: PZ-209-SS
Date Collected: 05/03/17 10:23
Date Received: 05/03/17 12:13

Lab Sample ID: 160-22141-9
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Bromodichloromethane	ND		5.0	0.25	ug/L			05/10/17 06:14	1
Bromoform	ND		5.0	0.37	ug/L			05/10/17 06:14	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/10/17 06:14	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/10/17 06:14	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/10/17 06:14	1
Chloroethane	ND		10	0.38	ug/L			05/10/17 06:14	1
Chloroform	ND		5.0	0.15	ug/L			05/10/17 06:14	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/10/17 06:14	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/10/17 06:14	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/10/17 06:14	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/10/17 06:14	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/10/17 06:14	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/10/17 06:14	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/10/17 06:14	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/10/17 06:14	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/10/17 06:14	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/10/17 06:14	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/10/17 06:14	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/10/17 06:14	1
2-Hexanone	ND		20	0.59	ug/L			05/10/17 06:14	1
Methyl bromide	ND		10	0.40	ug/L			05/10/17 06:14	1
Methyl chloride	ND		10	0.55	ug/L			05/10/17 06:14	1
Methylene bromide	ND		5.0	0.41	ug/L			05/10/17 06:14	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/10/17 06:14	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/10/17 06:14	1
Methyl iodide	ND		5.0	1.5	ug/L			05/10/17 06:14	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/10/17 06:14	1
Styrene	ND		5.0	0.35	ug/L			05/10/17 06:14	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/10/17 06:14	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/10/17 06:14	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/10/17 06:14	1
Toluene	ND		5.0	1.0	ug/L			05/10/17 06:14	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/10/17 06:14	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/10/17 06:14	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/10/17 06:14	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/10/17 06:14	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/10/17 06:14	1
Trichloroethene	ND		5.0	0.29	ug/L			05/10/17 06:14	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/10/17 06:14	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/10/17 06:14	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/10/17 06:14	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/10/17 06:14	1
Xylenes, Total	ND		10	0.85	ug/L			05/10/17 06:14	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*71 - 139*		*05/10/17 06:14*	*1*
Dibromofluoromethane (Surr)	*104*		*80 - 121*		*05/10/17 06:14*	*1*
1,2-Dichloroethane-d4 (Surr)	*104*		*76 - 121*		*05/10/17 06:14*	*1*
Toluene-d8 (Surr)	*107*		*80 - 129*		*05/10/17 06:14*	*1*

Client Sample ID: PZ-209-SS

Date Collected: 05/03/17 10:23
Date Received: 05/03/17 12:13

Lab Sample ID: 160-22141-9

Matrix: Water

Method: 300.0 - Anions, Ion Chromatography

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	ND		1.0	0.10	mg/L			05/09/17 06:43	1

Method: 300.0 - Anions, Ion Chromatography - DL

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	**2.5**		1.0	0.10	mg/L			05/08/17 19:49	5
Fluoride	**1.6**	**H**	0.50	0.13	mg/L			06/10/17 04:10	5
Sulfate	**23**	**H**	2.5	0.25	mg/L			06/10/17 04:10	5

Method: 6010C - Metals (ICP)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:12	5
Iron	**540**		500	150	ug/L		05/09/17 12:07	05/16/17 00:12	5
Arsenic	ND		50	20	ug/L		05/09/17 12:07	05/16/17 00:12	5
Barium	**95**	**J**	250	75	ug/L		05/09/17 12:07	05/16/17 00:12	5
Beryllium	ND		25	7.5	ug/L		05/09/17 12:07	05/16/17 00:12	5
Boron	**260**	**J**	500	130	ug/L		05/09/17 12:07	05/16/17 00:12	5
Cadmium	ND		25	7.5	ug/L		05/09/17 12:07	05/16/17 00:12	5
CaHard	**180000**		12000	3700	ug/L		05/09/17 12:07	05/16/17 00:12	5
Calcium	**74000**		5000	1500	ug/L		05/09/17 12:07	05/16/17 00:12	5
Chromium	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:12	5
Cobalt	ND		250	75	ug/L		05/09/17 12:07	05/16/17 00:12	5
Copper	ND		130	35	ug/L		05/09/17 12:07	05/16/17 00:12	5
Lead	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:12	5
Magnesium	**53**		5.0	1.5	mg/L		05/09/17 12:07	05/16/17 00:12	5
Manganese	**78**		75	20	ug/L		05/09/17 12:07	05/16/17 00:12	5
MgHard	**220000**		21000	6200	ug/L		05/09/17 12:07	05/16/17 00:12	5
Nickel	ND		0.20	0.050	mg/L		05/09/17 12:07	05/16/17 00:12	5
Phosphorus	ND		1300	380	ug/L		05/09/17 12:07	05/16/17 00:12	5
Selenium	ND		75	40	ug/L		05/09/17 12:07	05/16/17 00:12	5
Silver	ND		50	15	ug/L		05/09/17 12:07	05/16/17 00:12	5
Sodium	**12000**		5000	1500	ug/L		05/09/17 12:07	05/16/17 00:12	5
Thallium	ND		100	25	ug/L		05/09/17 12:07	05/16/17 00:12	5
Total Hardness	**400000**		33000	9900	ug/L		05/09/17 12:07	05/16/17 00:12	5
Vanadium	ND		250	130	ug/L		05/09/17 12:07	05/16/17 00:12	5
Zinc	ND		100	30	ug/L		05/09/17 12:07	05/16/17 00:12	5

Method: 7470A - Mercury (CVAA)

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		05/22/17 09:55	05/22/17 19:58	1

General Chemistry

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	**420**		5.0	3.5	mg/L			05/08/17 07:53	1
Ammonia	**170**	**B**	50	22	ug/L			05/25/17 17:36	1
Nitrate Nitrite as N	ND		50	22	ug/L			05/23/17 17:29	1
Chemical Oxygen Demand	**3.0**	**J**	5.0	2.4	mg/L		05/30/17 08:15	05/30/17 14:00	1
Total Organic Carbon	**1.9**		1.0	0.72	mg/L			05/22/17 20:19	1

Client Sample ID: PZ-209-SS

Lab Sample ID: 160-22141-9
Date Collected: 05/03/17 10:23
Matrix: Water
Date Received: 05/03/17 12:13

Method: 906.0 - Tritium, Total (LSC)

Analyte	Result	Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-9.91	U	140	140	500	255	pCi/L	05/30/17 19:12	05/31/17 14:39	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 160-22141-10
Date Collected: 05/02/17 08:00
Matrix: Water
Date Received: 05/03/17 12:13

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/10/17 05:49	1
Acrylonitrile	ND		50	1.7	ug/L			05/10/17 05:49	1
Benzene	ND		5.0	0.25	ug/L			05/10/17 05:49	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/10/17 05:49	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/10/17 05:49	1
Bromoform	ND		5.0	0.37	ug/L			05/10/17 05:49	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/10/17 05:49	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/10/17 05:49	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/10/17 05:49	1
Chloroethane	ND		10	0.38	ug/L			05/10/17 05:49	1
Chloroform	ND		5.0	0.15	ug/L			05/10/17 05:49	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/10/17 05:49	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/10/17 05:49	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/10/17 05:49	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/10/17 05:49	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/10/17 05:49	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/10/17 05:49	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/10/17 05:49	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/10/17 05:49	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/10/17 05:49	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/10/17 05:49	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/10/17 05:49	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/10/17 05:49	1
2-Hexanone	ND		20	0.59	ug/L			05/10/17 05:49	1
Methyl bromide	**0.45**	**J**	10	0.40	ug/L			05/10/17 05:49	1
Methyl chloride	ND		10	0.55	ug/L			05/10/17 05:49	1
Methylene bromide	ND		5.0	0.41	ug/L			05/10/17 05:49	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/10/17 05:49	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/10/17 05:49	1
Methyl iodide	ND		5.0	1.5	ug/L			05/10/17 05:49	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/10/17 05:49	1
Styrene	ND		5.0	0.35	ug/L			05/10/17 05:49	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/10/17 05:49	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/10/17 05:49	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/10/17 05:49	1
Toluene	ND		5.0	1.0	ug/L			05/10/17 05:49	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/10/17 05:49	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/10/17 05:49	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/10/17 05:49	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/10/17 05:49	1

Client Sample ID: TRIP BLANK

Lab Sample ID: 160-22141-10

Date Collected: 05/02/17 08:00

Matrix: Water

Date Received: 05/03/17 12:13

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/10/17 05:49	1
Trichloroethene	ND		5.0	0.29	ug/L			05/10/17 05:49	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/10/17 05:49	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/10/17 05:49	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/10/17 05:49	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/10/17 05:49	1
Xylenes, Total	ND		10	0.85	ug/L			05/10/17 05:49	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*114*		*71 - 139*		*05/10/17 05:49*	*1*
Dibromofluoromethane (Surr)	*96*		*80 - 121*		*05/10/17 05:49*	*1*
1,2-Dichloroethane-d4 (Surr)	*96*		*76 - 121*		*05/10/17 05:49*	*1*
Toluene-d8 (Surr)	*104*		*80 - 129*		*05/10/17 05:49*	*1*

Client Sample ID: TRIP BLANK

Lab Sample ID: 160-22141-11

Date Collected: 05/03/17 00:00

Matrix: Water

Date Received: 05/03/17 12:13

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/10/17 05:24	1
Acrylonitrile	ND		50	1.7	ug/L			05/10/17 05:24	1
Benzene	ND		5.0	0.25	ug/L			05/10/17 05:24	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/10/17 05:24	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/10/17 05:24	1
Bromoform	ND		5.0	0.37	ug/L			05/10/17 05:24	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/10/17 05:24	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/10/17 05:24	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/10/17 05:24	1
Chloroethane	ND		10	0.38	ug/L			05/10/17 05:24	1
Chloroform	ND		5.0	0.15	ug/L			05/10/17 05:24	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/10/17 05:24	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/10/17 05:24	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/10/17 05:24	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/10/17 05:24	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/10/17 05:24	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/10/17 05:24	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/10/17 05:24	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/10/17 05:24	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/10/17 05:24	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/10/17 05:24	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/10/17 05:24	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/10/17 05:24	1
2-Hexanone	ND		20	0.59	ug/L			05/10/17 05:24	1
Methyl bromide	ND		10	0.40	ug/L			05/10/17 05:24	1
Methyl chloride	ND		10	0.55	ug/L			05/10/17 05:24	1
Methylene bromide	ND		5.0	0.41	ug/L			05/10/17 05:24	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/10/17 05:24	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/10/17 05:24	1
Methyl iodide	ND		5.0	1.5	ug/L			05/10/17 05:24	1

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22141-1

Client Sample ID: TRIP BLANK
Date Collected: 05/03/17 00:00
Date Received: 05/03/17 12:13

Lab Sample ID: 160-22141-11
Matrix: Water

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

Analyte	Result	Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/10/17 05:24	1
Styrene	ND		5.0	0.35	ug/L			05/10/17 05:24	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/10/17 05:24	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/10/17 05:24	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/10/17 05:24	1
Toluene	ND		5.0	1.0	ug/L			05/10/17 05:24	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/10/17 05:24	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/10/17 05:24	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/10/17 05:24	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/10/17 05:24	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/10/17 05:24	1
Trichloroethene	ND		5.0	0.29	ug/L			05/10/17 05:24	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/10/17 05:24	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/10/17 05:24	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/10/17 05:24	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/10/17 05:24	1
Xylenes, Total	ND		10	0.85	ug/L			05/10/17 05:24	1

Surrogate	*%Recovery*	*Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*115*		*71 - 139*		*05/10/17 05:24*	*1*
Dibromofluoromethane (Surr)	*99*		*80 - 121*		*05/10/17 05:24*	*1*
1,2-Dichloroethane-d4 (Surr)	*99*		*76 - 121*		*05/10/17 05:24*	*1*
Toluene-d8 (Surr)	*105*		*80 - 129*		*05/10/17 05:24*	*1*

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

Lab Sample ID: MB 160-307897/7
Matrix: Water
Analysis Batch: 307897

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/09/17 23:28	1
Acrylonitrile	ND		50	1.7	ug/L			05/09/17 23:28	1
Benzene	ND		5.0	0.25	ug/L			05/09/17 23:28	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/09/17 23:28	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/09/17 23:28	1
Bromoform	ND		5.0	0.37	ug/L			05/09/17 23:28	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/09/17 23:28	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/09/17 23:28	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/09/17 23:28	1
Chloroethane	ND		10	0.38	ug/L			05/09/17 23:28	1
Chloroform	ND		5.0	0.15	ug/L			05/09/17 23:28	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/09/17 23:28	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/09/17 23:28	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/09/17 23:28	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/09/17 23:28	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/09/17 23:28	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/09/17 23:28	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/09/17 23:28	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/09/17 23:28	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/09/17 23:28	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/09/17 23:28	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/09/17 23:28	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/09/17 23:28	1
2-Hexanone	ND		20	0.59	ug/L			05/09/17 23:28	1
Methyl bromide	ND		10	0.40	ug/L			05/09/17 23:28	1
Methyl chloride	ND		10	0.55	ug/L			05/09/17 23:28	1
Methylene bromide	ND		5.0	0.41	ug/L			05/09/17 23:28	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/09/17 23:28	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/09/17 23:28	1
Methyl iodide	ND		5.0	1.5	ug/L			05/09/17 23:28	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/09/17 23:28	1
Styrene	ND		5.0	0.35	ug/L			05/09/17 23:28	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/09/17 23:28	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/09/17 23:28	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/09/17 23:28	1
Toluene	ND		5.0	1.0	ug/L			05/09/17 23:28	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/09/17 23:28	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/09/17 23:28	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/09/17 23:28	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/09/17 23:28	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/09/17 23:28	1
Trichloroethene	ND		5.0	0.29	ug/L			05/09/17 23:28	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/09/17 23:28	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/09/17 23:28	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/09/17 23:28	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/09/17 23:28	1
Xylenes, Total	ND		10	0.85	ug/L			05/09/17 23:28	1

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

Lab Sample ID: MB 160-307897/7
Matrix: Water
Analysis Batch: 307897

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	121		71 - 139		05/09/17 23:28	1
Dibromofluoromethane (Surr)	97		80 - 121		05/09/17 23:28	1
1,2-Dichloroethane-d4 (Surr)	99		76 - 121		05/09/17 23:28	1
Toluene-d8 (Surr)	106		80 - 129		05/09/17 23:28	1

Lab Sample ID: LCS 160-307897/3
Matrix: Water
Analysis Batch: 307897

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	50.0	49.9		ug/L		100	63 - 131
Acrylonitrile	500	513		ug/L		103	81 - 117
Benzene	50.0	50.9		ug/L		102	80 - 120
Bromochloromethane	50.0	50.3		ug/L		101	80 - 120
Bromodichloromethane	50.0	50.7		ug/L		101	80 - 120
Bromoform	50.0	49.8		ug/L		100	80 - 120
Carbon disulfide	50.0	50.5		ug/L		101	79 - 126
Carbon tetrachloride	50.0	50.3		ug/L		101	73 - 123
Chlorobenzene	50.0	51.3		ug/L		103	80 - 120
Chloroethane	50.0	44.0		ug/L		88	52 - 140
Chloroform	50.0	50.5		ug/L		101	80 - 120
cis-1,2-Dichloroethene	50.0	51.5		ug/L		103	80 - 120
cis-1,3-Dichloropropene	50.0	53.3		ug/L		107	80 - 122
Dibromochloromethane	50.0	50.4		ug/L		101	80 - 120
1,2-Dibromo-3-Chloropropane	50.0	50.4		ug/L		101	77 - 125
1,2-Dibromoethane (EDB)	50.0	50.7		ug/L		101	80 - 120
1,2-Dichlorobenzene	50.0	51.6		ug/L		103	80 - 120
1,4-Dichlorobenzene	50.0	51.6		ug/L		103	80 - 120
1,1-Dichloroethane	50.0	50.8		ug/L		102	80 - 120
1,2-Dichloroethane	50.0	49.8		ug/L		100	69 - 124
1,1-Dichloroethene	50.0	51.1		ug/L		102	77 - 126
1,2-Dichloropropane	50.0	51.0		ug/L		102	80 - 120
Ethylbenzene	50.0	52.3		ug/L		105	80 - 120
2-Hexanone	50.0	55.4		ug/L		111	64 - 136
Methyl bromide	50.0	44.6		ug/L		89	57 - 139
Methyl chloride	50.0	48.9		ug/L		98	70 - 127
Methylene bromide	50.0	49.7		ug/L		99	78 - 120
Methylene Chloride	50.0	49.3		ug/L		99	80 - 120
Methyl Ethyl Ketone	50.0	50.2		ug/L		100	70 - 130
Methyl iodide	50.0	46.0		ug/L		92	73 - 125
4-Methyl-2-pentanone (MIBK)	50.0	54.7		ug/L		109	76 - 129
Styrene	50.0	56.3		ug/L		113	80 - 120
1,1,1,2-Tetrachloroethane	50.0	51.0		ug/L		102	80 - 120
1,1,2,2-Tetrachloroethane	50.0	48.1		ug/L		96	80 - 120
Tetrachloroethene	50.0	51.8		ug/L		104	80 - 120
Toluene	50.0	50.8		ug/L		102	80 - 120
trans-1,4-Dichloro-2-butene	50.0	49.8		ug/L		100	75 - 127
trans-1,2-Dichloroethene	50.0	50.9		ug/L		102	80 - 120

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

Lab Sample ID: LCS 160-307897/3
Matrix: Water
Analysis Batch: 307897

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			50.0	53.7		ug/L		107	80 - 130		
1,1,1-Trichloroethane			50.0	50.7		ug/L		101	76 - 120		
1,1,2-Trichloroethane			50.0	50.4		ug/L		101	80 - 120		
Trichloroethene			50.0	49.3		ug/L		99	73 - 120		
Trichlorofluoromethane			50.0	49.2		ug/L		98	74 - 130		
1,2,3-Trichloropropane			50.0	48.5		ug/L		97	80 - 120		
Vinyl acetate			50.0	56.5		ug/L		113	37 - 140		
Vinyl chloride			50.0	51.1		ug/L		102	51 - 140		
Xylenes, Total			100	115		ug/L		115	80 - 121		

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*71 - 139*
Dibromofluoromethane (Surr)	*98*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*97*		*76 - 121*
Toluene-d8 (Surr)	*104*		*80 - 129*

Lab Sample ID: LCSD 160-307897/4
Matrix: Water
Analysis Batch: 307897

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
Acetone			50.0	49.4		ug/L		99	63 - 131	1	20
Acrylonitrile			500	504		ug/L		101	81 - 117	2	20
Benzene			50.0	49.8		ug/L		100	80 - 120	2	20
Bromochloromethane			50.0	49.4		ug/L		99	80 - 120	2	20
Bromodichloromethane			50.0	49.6		ug/L		99	80 - 120	2	20
Bromoform			50.0	48.7		ug/L		97	80 - 120	2	20
Carbon disulfide			50.0	48.9		ug/L		98	79 - 126	3	20
Carbon tetrachloride			50.0	48.8		ug/L		98	73 - 123	3	20
Chlorobenzene			50.0	49.8		ug/L		100	80 - 120	3	20
Chloroethane			50.0	40.3		ug/L		81	52 - 140	9	20
Chloroform			50.0	49.1		ug/L		98	80 - 120	3	20
cis-1,2-Dichloroethene			50.0	50.6		ug/L		101	80 - 120	2	20
cis-1,3-Dichloropropene			50.0	52.2		ug/L		104	80 - 122	2	20
Dibromochloromethane			50.0	49.5		ug/L		99	80 - 120	2	20
1,2-Dibromo-3-Chloropropane			50.0	50.1		ug/L		100	77 - 125	1	20
1,2-Dibromoethane (EDB)			50.0	49.4		ug/L		99	80 - 120	3	20
1,2-Dichlorobenzene			50.0	50.1		ug/L		100	80 - 120	3	20
1,4-Dichlorobenzene			50.0	49.8		ug/L		100	80 - 120	4	20
1,1-Dichloroethane			50.0	49.3		ug/L		99	80 - 120	3	20
1,2-Dichloroethane			50.0	48.7		ug/L		97	69 - 124	2	20
1,1-Dichloroethene			50.0	49.2		ug/L		98	77 - 126	4	20
1,2-Dichloropropane			50.0	50.4		ug/L		101	80 - 120	1	20
Ethylbenzene			50.0	50.2		ug/L		100	80 - 120	4	20
2-Hexanone			50.0	53.9		ug/L		108	64 - 136	3	20
Methyl bromide			50.0	42.9		ug/L		86	57 - 139	4	20
Methyl chloride			50.0	47.0		ug/L		94	70 - 127	4	20
Methylene bromide			50.0	48.8		ug/L		98	78 - 120	2	20

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

Lab Sample ID: LCSD 160-307897/4
Matrix: Water
Analysis Batch: 307897

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
Methylene Chloride			50.0	48.4		ug/L		97	80 - 120	2	20
Methyl Ethyl Ketone			50.0	50.0		ug/L		100	70 - 130	0	20
Methyl iodide			50.0	46.6		ug/L		93	73 - 125	1	20
4-Methyl-2-pentanone (MIBK)			50.0	54.4		ug/L		109	76 - 129	1	20
Styrene			50.0	54.2		ug/L		108	80 - 120	4	20
1,1,1,2-Tetrachloroethane			50.0	49.4		ug/L		99	80 - 120	3	20
1,1,2,2-Tetrachloroethane			50.0	47.7		ug/L		95	80 - 120	1	20
Tetrachloroethene			50.0	49.5		ug/L		99	80 - 120	4	20
Toluene			50.0	49.3		ug/L		99	80 - 120	3	20
trans-1,4-Dichloro-2-butene			50.0	48.8		ug/L		98	75 - 127	2	20
trans-1,2-Dichloroethene			50.0	49.1		ug/L		98	80 - 120	4	20
trans-1,3-Dichloropropene			50.0	51.9		ug/L		104	80 - 130	3	20
1,1,1-Trichloroethane			50.0	49.5		ug/L		99	76 - 120	2	20
1,1,2-Trichloroethane			50.0	48.7		ug/L		97	80 - 120	3	20
Trichloroethene			50.0	47.5		ug/L		95	73 - 120	4	20
Trichlorofluoromethane			50.0	46.7		ug/L		93	74 - 130	5	20
1,2,3-Trichloropropane			50.0	47.4		ug/L		95	80 - 120	2	20
Vinyl acetate			50.0	55.1		ug/L		110	37 - 140	3	20
Vinyl chloride			50.0	48.5		ug/L		97	51 - 140	5	20
Xylenes, Total			100	110		ug/L		110	80 - 121	4	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*71 - 139*
Dibromofluoromethane (Surr)	*98*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*97*		*76 - 121*
Toluene-d8 (Surr)	*103*		*80 - 129*

Lab Sample ID: 160-22117-A-2 MS
Matrix: Water
Analysis Batch: 307897

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		50.0	60.5		ug/L		121	52 - 138
Acrylonitrile	ND		500	602		ug/L		120	58 - 142
Benzene	2.2	J	50.0	54.3		ug/L		104	80 - 120
Bromochloromethane	ND		50.0	52.4		ug/L		105	72 - 125
Bromodichloromethane	ND		50.0	51.7		ug/L		103	71 - 128
Bromoform	ND		50.0	52.7		ug/L		105	65 - 133
Carbon disulfide	ND		50.0	52.4		ug/L		105	69 - 139
Carbon tetrachloride	ND		50.0	50.9		ug/L		102	70 - 126
Chlorobenzene	ND		50.0	51.9		ug/L		104	80 - 120
Chloroethane	ND		50.0	48.1		ug/L		96	59 - 144
Chloroform	ND		50.0	51.1		ug/L		102	80 - 120
cis-1,2-Dichloroethene	ND		50.0	52.7		ug/L		105	80 - 124
cis-1,3-Dichloropropene	ND		50.0	53.9		ug/L		108	67 - 130
Dibromochloromethane	ND		50.0	52.4		ug/L		105	68 - 133
1,2-Dibromo-3-Chloropropane	ND		50.0	59.1		ug/L		118	58 - 148
1,2-Dibromoethane (EDB)	ND		50.0	53.8		ug/L		108	65 - 138

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

Lab Sample ID: 160-22117-A-2 MS
Matrix: Water
Analysis Batch: 307897

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	ND		50.0	53.1		ug/L		106	80 - 124
1,4-Dichlorobenzene	ND		50.0	52.7		ug/L		105	80 - 120
1,1-Dichloroethane	ND		50.0	51.3		ug/L		103	80 - 120
1,2-Dichloroethane	ND		50.0	53.0		ug/L		106	56 - 136
1,1-Dichloroethene	ND		50.0	52.1		ug/L		104	66 - 137
1,2-Dichloropropane	ND		50.0	52.3		ug/L		105	80 - 123
Ethylbenzene	ND		50.0	52.8		ug/L		106	80 - 121
2-Hexanone	ND		50.0	64.2		ug/L		128	47 - 150
Methyl bromide	0.68	J F2	50.0	48.7		ug/L		96	53 - 146
Methyl chloride	ND		50.0	50.1		ug/L		100	61 - 137
Methylene bromide	ND		50.0	54.2		ug/L		108	61 - 136
Methylene Chloride	ND		50.0	51.4		ug/L		103	80 - 120
Methyl Ethyl Ketone	ND		50.0	59.8		ug/L		120	58 - 143
Methyl iodide	ND	F1 F2	50.0	65.1	F1	ug/L		130	69 - 124
4-Methyl-2-pentanone (MIBK)	ND		50.0	64.1		ug/L		128	53 - 150
Styrene	ND		50.0	57.0		ug/L		114	44 - 150
1,1,1,2-Tetrachloroethane	ND		50.0	50.1		ug/L		100	80 - 120
1,1,2,2-Tetrachloroethane	ND		50.0	54.5		ug/L		109	60 - 150
Tetrachloroethene	ND		50.0	51.2		ug/L		102	66 - 132
Toluene	ND		50.0	51.6		ug/L		103	75 - 134
trans-1,4-Dichloro-2-butene	ND		50.0	55.4		ug/L		111	55 - 146
trans-1,2-Dichloroethene	ND		50.0	51.6		ug/L		103	79 - 121
trans-1,3-Dichloropropene	ND		50.0	54.9		ug/L		110	68 - 143
1,1,1-Trichloroethane	ND		50.0	51.4		ug/L		103	74 - 123
1,1,2-Trichloroethane	ND		50.0	53.2		ug/L		106	70 - 134
Trichloroethene	ND		50.0	49.4		ug/L		99	63 - 120
Trichlorofluoromethane	ND		50.0	48.9		ug/L		98	53 - 150
1,2,3-Trichloropropane	ND		50.0	54.0		ug/L		108	62 - 137
Vinyl acetate	ND		50.0	64.4		ug/L		129	63 - 150
Vinyl chloride	ND		50.0	52.8		ug/L		106	54 - 140
Xylenes, Total	ND		100	115		ug/L		115	80 - 124

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*71 - 139*
Dibromofluoromethane (Surr)	*99*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*102*		*76 - 121*
Toluene-d8 (Surr)	*104*		*80 - 129*

Lab Sample ID: 160-22117-A-2 MSD
Matrix: Water
Analysis Batch: 307897

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		50.0	60.7		ug/L		121	52 - 138	0	20
Acrylonitrile	ND		500	588		ug/L		118	58 - 142	2	20
Benzene	2.2	J	50.0	54.9		ug/L		105	80 - 120	1	20
Bromochloromethane	ND		50.0	53.1		ug/L		106	72 - 125	1	20
Bromodichloromethane	ND		50.0	53.4		ug/L		107	71 - 128	3	20

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

Lab Sample ID: 160-22117-A-2 MSD
Matrix: Water
Analysis Batch: 307897

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	ND		50.0	53.0		ug/L		106	65 - 133	1	20
Carbon disulfide	ND		50.0	52.0		ug/L		104	69 - 139	1	20
Carbon tetrachloride	ND		50.0	51.5		ug/L		103	70 - 126	1	20
Chlorobenzene	ND		50.0	52.1		ug/L		104	80 - 120	0	20
Chloroethane	ND		50.0	47.9		ug/L		96	59 - 144	0	20
Chloroform	ND		50.0	52.5		ug/L		105	80 - 120	3	20
cis-1,2-Dichloroethene	ND		50.0	53.7		ug/L		107	80 - 124	2	20
cis-1,3-Dichloropropene	ND		50.0	54.5		ug/L		109	67 - 130	1	20
Dibromochloromethane	ND		50.0	53.1		ug/L		106	68 - 133	1	20
1,2-Dibromo-3-Chloropropane	ND		50.0	56.8		ug/L		114	58 - 148	4	20
1,2-Dibromoethane (EDB)	ND		50.0	54.2		ug/L		108	65 - 138	1	20
1,2-Dichlorobenzene	ND		50.0	53.3		ug/L		107	80 - 124	0	20
1,4-Dichlorobenzene	ND		50.0	53.0		ug/L		106	80 - 120	1	20
1,1-Dichloroethane	ND		50.0	52.6		ug/L		105	80 - 120	2	20
1,2-Dichloroethane	ND		50.0	52.8		ug/L		106	56 - 136	0	20
1,1-Dichloroethene	ND		50.0	52.6		ug/L		105	66 - 137	1	20
1,2-Dichloropropane	ND		50.0	54.0		ug/L		108	80 - 123	3	20
Ethylbenzene	ND		50.0	52.5		ug/L		105	80 - 121	1	20
2-Hexanone	ND		50.0	64.4		ug/L		129	47 - 150	0	20
Methyl bromide	0.68	J F2	50.0	35.7	F2	ug/L		70	53 - 146	31	20
Methyl chloride	ND		50.0	47.1		ug/L		94	61 - 137	6	20
Methylene bromide	ND		50.0	54.0		ug/L		108	61 - 136	0	20
Methylene Chloride	ND		50.0	51.8		ug/L		104	80 - 120	1	20
Methyl Ethyl Ketone	ND		50.0	59.9		ug/L		120	58 - 143	0	20
Methyl iodide	ND	F1 F2	50.0	45.2	F2	ug/L		90	69 - 124	36	20
4-Methyl-2-pentanone (MIBK)	ND		50.0	62.9		ug/L		126	53 - 150	2	20
Styrene	ND		50.0	57.7		ug/L		115	44 - 150	1	20
1,1,1,2-Tetrachloroethane	ND		50.0	51.4		ug/L		103	80 - 120	3	20
1,1,2,2-Tetrachloroethane	ND		50.0	54.2		ug/L		108	60 - 150	1	20
Tetrachloroethene	ND		50.0	51.1		ug/L		102	66 - 132	0	20
Toluene	ND		50.0	51.3		ug/L		103	75 - 134	1	20
trans-1,4-Dichloro-2-butene	ND		50.0	54.1		ug/L		108	55 - 146	2	20
trans-1,2-Dichloroethene	ND		50.0	52.0		ug/L		104	79 - 121	1	20
trans-1,3-Dichloropropene	ND		50.0	55.1		ug/L		110	68 - 143	0	20
1,1,1-Trichloroethane	ND		50.0	52.1		ug/L		104	74 - 123	2	20
1,1,2-Trichloroethane	ND		50.0	54.2		ug/L		108	70 - 134	2	20
Trichloroethene	ND		50.0	50.1		ug/L		100	63 - 120	1	20
Trichlorofluoromethane	ND		50.0	49.5		ug/L		99	53 - 150	1	20
1,2,3-Trichloropropane	ND		50.0	52.3		ug/L		105	62 - 137	3	20
Vinyl acetate	ND		50.0	65.1		ug/L		130	63 - 150	1	20
Vinyl chloride	ND		50.0	50.6		ug/L		101	54 - 140	4	20
Xylenes, Total	ND		100	116		ug/L		116	80 - 124	1	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*107*		*71 - 139*
Dibromofluoromethane (Surr)	*103*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*105*		*76 - 121*
Toluene-d8 (Surr)	*105*		*80 - 129*

Lab Sample ID: MB 160-308357/13
Matrix: Water
Analysis Batch: 308357

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/12/17 00:18	1
Acrylonitrile	ND		50	1.7	ug/L			05/12/17 00:18	1
Benzene	ND		5.0	0.25	ug/L			05/12/17 00:18	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/12/17 00:18	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/12/17 00:18	1
Bromoform	ND		5.0	0.37	ug/L			05/12/17 00:18	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/12/17 00:18	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/12/17 00:18	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/12/17 00:18	1
Chloroethane	ND		10	0.38	ug/L			05/12/17 00:18	1
Chloroform	ND		5.0	0.15	ug/L			05/12/17 00:18	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/12/17 00:18	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/12/17 00:18	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/12/17 00:18	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/12/17 00:18	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/12/17 00:18	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/12/17 00:18	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/12/17 00:18	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/12/17 00:18	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/12/17 00:18	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/12/17 00:18	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/12/17 00:18	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/12/17 00:18	1
2-Hexanone	ND		20	0.59	ug/L			05/12/17 00:18	1
Methyl bromide	ND		10	0.40	ug/L			05/12/17 00:18	1
Methyl chloride	ND		10	0.55	ug/L			05/12/17 00:18	1
Methylene bromide	ND		5.0	0.41	ug/L			05/12/17 00:18	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/12/17 00:18	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/12/17 00:18	1
Methyl iodide	ND		5.0	1.5	ug/L			05/12/17 00:18	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/12/17 00:18	1
Styrene	ND		5.0	0.35	ug/L			05/12/17 00:18	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/12/17 00:18	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/12/17 00:18	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/12/17 00:18	1
Toluene	ND		5.0	1.0	ug/L			05/12/17 00:18	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/12/17 00:18	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/12/17 00:18	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/12/17 00:18	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/12/17 00:18	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/12/17 00:18	1
Trichloroethene	ND		5.0	0.29	ug/L			05/12/17 00:18	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/12/17 00:18	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/12/17 00:18	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/12/17 00:18	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/12/17 00:18	1
Xylenes, Total	ND		10	0.85	ug/L			05/12/17 00:18	1

Surrogate	*MB %Recovery*	*MB Qualifier*	*Limits*	*Prepared*	*Analyzed*	*Dil Fac*
4-Bromofluorobenzene (Surr)	*100*		*71 - 139*		*05/12/17 00:18*	*1*

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

Lab Sample ID: MB 160-308357/13
Matrix: Water
Analysis Batch: 308357

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
Dibromofluoromethane (Surr)	*101*		*80 - 121*		*05/12/17 00:18*	*1*
1,2-Dichloroethane-d4 (Surr)	*94*		*76 - 121*		*05/12/17 00:18*	*1*
Toluene-d8 (Surr)	*104*		*80 - 129*		*05/12/17 00:18*	*1*

Lab Sample ID: LCS 160-308357/4
Matrix: Water
Analysis Batch: 308357

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	50.0	44.1		ug/L		88	63 - 131
Acrylonitrile	500	482		ug/L		96	81 - 117
Benzene	50.0	43.3		ug/L		87	80 - 120
Bromochloromethane	50.0	47.0		ug/L		94	80 - 120
Bromodichloromethane	50.0	48.7		ug/L		97	80 - 120
Bromoform	50.0	50.3		ug/L		101	80 - 120
Carbon disulfide	50.0	48.8		ug/L		98	79 - 126
Carbon tetrachloride	50.0	47.3		ug/L		95	73 - 123
Chlorobenzene	50.0	45.5		ug/L		91	80 - 120
Chloroethane	50.0	45.1		ug/L		90	52 - 140
Chloroform	50.0	46.9		ug/L		94	80 - 120
cis-1,2-Dichloroethene	50.0	50.0		ug/L		100	80 - 120
cis-1,3-Dichloropropene	50.0	52.1		ug/L		104	80 - 122
Dibromochloromethane	50.0	47.9		ug/L		96	80 - 120
1,2-Dibromo-3-Chloropropane	50.0	49.7		ug/L		99	77 - 125
1,2-Dibromoethane (EDB)	50.0	47.6		ug/L		95	80 - 120
1,2-Dichlorobenzene	50.0	47.8		ug/L		96	80 - 120
1,4-Dichlorobenzene	50.0	46.6		ug/L		93	80 - 120
1,1-Dichloroethane	50.0	46.8		ug/L		94	80 - 120
1,2-Dichloroethane	50.0	44.7		ug/L		89	69 - 124
1,1-Dichloroethene	50.0	48.2		ug/L		96	77 - 126
1,2-Dichloropropane	50.0	49.1		ug/L		98	80 - 120
Ethylbenzene	50.0	51.0		ug/L		102	80 - 120
2-Hexanone	50.0	46.7		ug/L		93	64 - 136
Methyl bromide	50.0	48.0		ug/L		96	57 - 139
Methyl chloride	50.0	46.7		ug/L		93	70 - 127
Methylene bromide	50.0	47.5		ug/L		95	78 - 120
Methylene Chloride	50.0	47.5		ug/L		95	80 - 120
Methyl Ethyl Ketone	50.0	47.2		ug/L		94	70 - 130
Methyl iodide	50.0	48.6		ug/L		97	73 - 125
4-Methyl-2-pentanone (MIBK)	50.0	51.2		ug/L		102	76 - 129
Styrene	50.0	50.0		ug/L		100	80 - 120
1,1,1,2-Tetrachloroethane	50.0	46.1		ug/L		92	80 - 120
1,1,2,2-Tetrachloroethane	50.0	47.5		ug/L		95	80 - 120
Tetrachloroethene	50.0	47.4		ug/L		95	80 - 120
Toluene	50.0	48.7		ug/L		97	80 - 120
trans-1,4-Dichloro-2-butene	50.0	49.0		ug/L		98	75 - 127
trans-1,2-Dichloroethene	50.0	49.7		ug/L		99	80 - 120
trans-1,3-Dichloropropene	50.0	50.2		ug/L		100	80 - 130

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

Lab Sample ID: LCS 160-308357/4
Matrix: Water
Analysis Batch: 308357

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	50.0	47.3		ug/L		95	76 - 120
1,1,2-Trichloroethane	50.0	46.9		ug/L		94	80 - 120
Trichloroethene	50.0	46.8		ug/L		94	73 - 120
Trichlorofluoromethane	50.0	47.1		ug/L		94	74 - 130
1,2,3-Trichloropropane	50.0	48.5		ug/L		97	80 - 120
Vinyl acetate	50.0	50.8		ug/L		102	37 - 140
Vinyl chloride	50.0	45.4		ug/L		91	51 - 140
Xylenes, Total	100	96.9		ug/L		97	80 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*106*		*71 - 139*
Dibromofluoromethane (Surr)	*97*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*94*		*76 - 121*
Toluene-d8 (Surr)	*103*		*80 - 129*

Lab Sample ID: LCSD 160-308357/5
Matrix: Water
Analysis Batch: 308357

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
Acetone	50.0	42.0		ug/L		84	63 - 131	5	20
Acrylonitrile	500	476		ug/L		95	81 - 117	1	20
Benzene	50.0	43.0		ug/L		86	80 - 120	1	20
Bromochloromethane	50.0	47.1		ug/L		94	80 - 120	0	20
Bromodichloromethane	50.0	47.5		ug/L		95	80 - 120	2	20
Bromoform	50.0	48.9		ug/L		98	80 - 120	3	20
Carbon disulfide	50.0	48.0		ug/L		96	79 - 126	2	20
Carbon tetrachloride	50.0	45.6		ug/L		91	73 - 123	4	20
Chlorobenzene	50.0	46.5		ug/L		93	80 - 120	2	20
Chloroethane	50.0	45.1		ug/L		90	52 - 140	0	20
Chloroform	50.0	46.1		ug/L		92	80 - 120	2	20
cis-1,2-Dichloroethene	50.0	49.6		ug/L		99	80 - 120	1	20
cis-1,3-Dichloropropene	50.0	52.4		ug/L		105	80 - 122	0	20
Dibromochloromethane	50.0	47.3		ug/L		95	80 - 120	1	20
1,2-Dibromo-3-Chloropropane	50.0	47.3		ug/L		95	77 - 125	5	20
1,2-Dibromoethane (EDB)	50.0	47.7		ug/L		95	80 - 120	0	20
1,2-Dichlorobenzene	50.0	47.7		ug/L		95	80 - 120	0	20
1,4-Dichlorobenzene	50.0	46.7		ug/L		93	80 - 120	0	20
1,1-Dichloroethane	50.0	45.7		ug/L		91	80 - 120	2	20
1,2-Dichloroethane	50.0	43.7		ug/L		87	69 - 124	2	20
1,1-Dichloroethene	50.0	47.3		ug/L		95	77 - 126	2	20
1,2-Dichloropropane	50.0	49.6		ug/L		99	80 - 120	1	20
Ethylbenzene	50.0	47.6		ug/L		95	80 - 120	7	20
2-Hexanone	50.0	46.5		ug/L		93	64 - 136	0	20
Methyl bromide	50.0	49.5		ug/L		99	57 - 139	3	20
Methyl chloride	50.0	45.0		ug/L		90	70 - 127	4	20
Methylene bromide	50.0	46.2		ug/L		92	78 - 120	3	20
Methylene Chloride	50.0	47.0		ug/L		94	80 - 120	1	20

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

Lab Sample ID: LCSD 160-308357/5
Matrix: Water
Analysis Batch: 308357

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
Methyl Ethyl Ketone			50.0	45.4		ug/L		91	70 - 130	4	20
Methyl iodide			50.0	47.7		ug/L		95	73 - 125	2	20
4-Methyl-2-pentanone (MIBK)			50.0	50.8		ug/L		102	76 - 129	1	20
Styrene			50.0	50.4		ug/L		101	80 - 120	1	20
1,1,1,2-Tetrachloroethane			50.0	45.0		ug/L		90	80 - 120	2	20
1,1,2,2-Tetrachloroethane			50.0	45.8		ug/L		92	80 - 120	4	20
Tetrachloroethene			50.0	47.5		ug/L		95	80 - 120	0	20
Toluene			50.0	49.3		ug/L		99	80 - 120	1	20
trans-1,4-Dichloro-2-butene			50.0	47.1		ug/L		94	75 - 127	4	20
trans-1,2-Dichloroethene			50.0	50.0		ug/L		100	80 - 120	1	20
trans-1,3-Dichloropropene			50.0	49.9		ug/L		100	80 - 130	1	20
1,1,1-Trichloroethane			50.0	46.2		ug/L		92	76 - 120	2	20
1,1,2-Trichloroethane			50.0	47.6		ug/L		95	80 - 120	1	20
Trichloroethene			50.0	46.6		ug/L		93	73 - 120	0	20
Trichlorofluoromethane			50.0	45.5		ug/L		91	74 - 130	4	20
1,2,3-Trichloropropane			50.0	47.6		ug/L		95	80 - 120	2	20
Vinyl acetate			50.0	50.4		ug/L		101	37 - 140	1	20
Vinyl chloride			50.0	45.1		ug/L		90	51 - 140	1	20
Xylenes, Total			100	98.9		ug/L		99	80 - 121	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*71 - 139*
Dibromofluoromethane (Surr)	*96*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*90*		*76 - 121*
Toluene-d8 (Surr)	*104*		*80 - 129*

Lab Sample ID: 160-22271-A-3 MS
Matrix: Water
Analysis Batch: 308357

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		50.0	44.9		ug/L		90	52 - 138
Acrylonitrile	ND		500	477		ug/L		95	58 - 142
Benzene	ND		50.0	41.3		ug/L		83	80 - 120
Bromochloromethane	ND		50.0	46.6		ug/L		93	72 - 125
Bromodichloromethane	ND		50.0	46.5		ug/L		93	71 - 128
Bromoform	ND		50.0	48.0		ug/L		96	65 - 133
Carbon disulfide	ND		50.0	45.9		ug/L		92	69 - 139
Carbon tetrachloride	ND		50.0	42.2		ug/L		84	70 - 126
Chlorobenzene	ND		50.0	45.4		ug/L		91	80 - 120
Chloroethane	ND		50.0	43.6		ug/L		87	59 - 144
Chloroform	ND		50.0	44.3		ug/L		89	80 - 120
cis-1,2-Dichloroethene	170	F1	50.0	186	F1	ug/L		37	80 - 124
cis-1,3-Dichloropropene	ND		50.0	50.1		ug/L		100	67 - 130
Dibromochloromethane	ND		50.0	45.7		ug/L		91	68 - 133
1,2-Dibromo-3-Chloropropane	ND		50.0	47.7		ug/L		95	58 - 148
1,2-Dibromoethane (EDB)	ND		50.0	46.8		ug/L		94	65 - 138
1,2-Dichlorobenzene	ND		50.0	46.0		ug/L		92	80 - 124

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

Lab Sample ID: 160-22271-A-3 MS
Matrix: Water
Analysis Batch: 308357

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,4-Dichlorobenzene	0.39	J	50.0	45.7		ug/L		91	80 - 120
1,1-Dichloroethane	ND		50.0	44.9		ug/L		90	80 - 120
1,2-Dichloroethane	2.5	J	50.0	45.1		ug/L		85	56 - 136
1,1-Dichloroethene	3.6	J	50.0	47.9		ug/L		89	66 - 137
1,2-Dichloropropane	ND		50.0	47.8		ug/L		96	80 - 123
Ethylbenzene	ND		50.0	45.9		ug/L		92	80 - 121
2-Hexanone	ND		50.0	48.0		ug/L		96	47 - 150
Methyl bromide	ND		50.0	46.5		ug/L		93	53 - 146
Methyl chloride	ND		50.0	42.6		ug/L		85	61 - 137
Methylene bromide	ND		50.0	45.5		ug/L		91	61 - 136
Methylene Chloride	ND		50.0	46.1		ug/L		92	80 - 120
Methyl Ethyl Ketone	ND		50.0	49.4		ug/L		99	58 - 143
Methyl iodide	ND		50.0	45.9		ug/L		92	69 - 124
4-Methyl-2-pentanone (MIBK)	ND		50.0	51.8		ug/L		104	53 - 150
Styrene	ND		50.0	48.4		ug/L		97	44 - 150
1,1,1,2-Tetrachloroethane	ND		50.0	43.8		ug/L		88	80 - 120
1,1,2,2-Tetrachloroethane	ND		50.0	45.9		ug/L		92	60 - 150
Tetrachloroethene	ND		50.0	44.6		ug/L		89	66 - 132
Toluene	ND		50.0	48.0		ug/L		96	75 - 134
trans-1,4-Dichloro-2-butene	ND		50.0	46.0		ug/L		92	55 - 146
trans-1,2-Dichloroethene	ND		50.0	47.8		ug/L		96	79 - 121
trans-1,3-Dichloropropene	ND		50.0	48.5		ug/L		97	68 - 143
1,1,1-Trichloroethane	ND		50.0	43.7		ug/L		87	74 - 123
1,1,2-Trichloroethane	ND		50.0	46.6		ug/L		93	70 - 134
Trichloroethene	1.1	J	50.0	45.5		ug/L		89	63 - 120
Trichlorofluoromethane	ND		50.0	41.2		ug/L		82	53 - 150
1,2,3-Trichloropropane	ND		50.0	45.8		ug/L		92	62 - 137
Vinyl acetate	ND		50.0	52.5		ug/L		105	63 - 150
Vinyl chloride	0.76	J	50.0	42.0		ug/L		82	54 - 140
Xylenes, Total	ND		100	94.1		ug/L		94	80 - 124

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*101*		*71 - 139*
Dibromofluoromethane (Surr)	*94*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*91*		*76 - 121*
Toluene-d8 (Surr)	*99*		*80 - 129*

Lab Sample ID: 160-22271-A-3 MSD
Matrix: Water
Analysis Batch: 308357

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		50.0	46.6		ug/L		93	52 - 138	4	20
Acrylonitrile	ND		500	472		ug/L		94	58 - 142	1	20
Benzene	ND		50.0	42.8		ug/L		86	80 - 120	4	20
Bromochloromethane	ND		50.0	47.4		ug/L		95	72 - 125	2	20
Bromodichloromethane	ND		50.0	48.2		ug/L		96	71 - 128	4	20
Bromoform	ND		50.0	47.9		ug/L		96	65 - 133	0	20

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

Lab Sample ID: 160-22271-A-3 MSD
Matrix: Water
Analysis Batch: 308357

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Carbon disulfide	ND		50.0	47.2		ug/L		94	69 - 139	3	20
Carbon tetrachloride	ND		50.0	44.2		ug/L		88	70 - 126	5	20
Chlorobenzene	ND		50.0	46.6		ug/L		93	80 - 120	3	20
Chloroethane	ND		50.0	44.8		ug/L		90	59 - 144	3	20
Chloroform	ND		50.0	45.6		ug/L		91	80 - 120	3	20
cis-1,2-Dichloroethene	170	F1	50.0	189	F1	ug/L		43	80 - 124	2	20
cis-1,3-Dichloropropene	ND		50.0	51.9		ug/L		104	67 - 130	3	20
Dibromochloromethane	ND		50.0	46.5		ug/L		93	68 - 133	2	20
1,2-Dibromo-3-Chloropropane	ND		50.0	50.9		ug/L		102	58 - 148	6	20
1,2-Dibromoethane (EDB)	ND		50.0	48.6		ug/L		97	65 - 138	4	20
1,2-Dichlorobenzene	ND		50.0	47.9		ug/L		96	80 - 124	4	20
1,4-Dichlorobenzene	0.39	J	50.0	46.6		ug/L		92	80 - 120	2	20
1,1-Dichloroethane	ND		50.0	46.5		ug/L		93	80 - 120	3	20
1,2-Dichloroethane	2.5	J	50.0	45.1		ug/L		85	56 - 136	0	20
1,1-Dichloroethene	3.6	J	50.0	49.4		ug/L		92	66 - 137	3	20
1,2-Dichloropropane	ND		50.0	49.6		ug/L		99	80 - 123	4	20
Ethylbenzene	ND		50.0	47.8		ug/L		96	80 - 121	4	20
2-Hexanone	ND		50.0	46.6		ug/L		93	47 - 150	3	20
Methyl bromide	ND		50.0	47.2		ug/L		94	53 - 146	1	20
Methyl chloride	ND		50.0	44.7		ug/L		89	61 - 137	5	20
Methylene bromide	ND		50.0	46.8		ug/L		94	61 - 136	3	20
Methylene Chloride	ND		50.0	46.9		ug/L		94	80 - 120	2	20
Methyl Ethyl Ketone	ND		50.0	46.3		ug/L		93	58 - 143	7	20
Methyl iodide	ND		50.0	47.6		ug/L		95	69 - 124	4	20
4-Methyl-2-pentanone (MIBK)	ND		50.0	51.9		ug/L		104	53 - 150	0	20
Styrene	ND		50.0	50.4		ug/L		101	44 - 150	4	20
1,1,1,2-Tetrachloroethane	ND		50.0	45.7		ug/L		91	80 - 120	4	20
1,1,2,2-Tetrachloroethane	ND		50.0	47.1		ug/L		94	60 - 150	3	20
Tetrachloroethene	ND		50.0	46.5		ug/L		93	66 - 132	4	20
Toluene	ND		50.0	49.8		ug/L		100	75 - 134	4	20
trans-1,4-Dichloro-2-butene	ND		50.0	46.5		ug/L		93	55 - 146	1	20
trans-1,2-Dichloroethene	ND		50.0	49.6		ug/L		99	79 - 121	4	20
trans-1,3-Dichloropropene	ND		50.0	49.3		ug/L		99	68 - 143	2	20
1,1,1-Trichloroethane	ND		50.0	45.0		ug/L		90	74 - 123	3	20
1,1,2-Trichloroethane	ND		50.0	48.3		ug/L		97	70 - 134	4	20
Trichloroethene	1.1	J	50.0	46.3		ug/L		90	63 - 120	2	20
Trichlorofluoromethane	ND		50.0	41.8		ug/L		84	53 - 150	1	20
1,2,3-Trichloropropane	ND		50.0	45.9		ug/L		92	62 - 137	0	20
Vinyl acetate	ND		50.0	53.6		ug/L		107	63 - 150	2	20
Vinyl chloride	0.76	J	50.0	43.3		ug/L		85	54 - 140	3	20
Xylenes, Total	ND		100	98.2		ug/L		98	80 - 124	4	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*104*		*71 - 139*
Dibromofluoromethane (Surr)	*95*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*92*		*76 - 121*
Toluene-d8 (Surr)	*103*		*80 - 129*

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

Lab Sample ID: MB 160-308482/7
Matrix: Water
Analysis Batch: 308482

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Acetone	ND		20	6.7	ug/L			05/14/17 17:41	1
Acrylonitrile	ND		50	1.7	ug/L			05/14/17 17:41	1
Benzene	ND		5.0	0.25	ug/L			05/14/17 17:41	1
Bromochloromethane	ND		5.0	0.55	ug/L			05/14/17 17:41	1
Bromodichloromethane	ND		5.0	0.25	ug/L			05/14/17 17:41	1
Bromoform	ND		5.0	0.37	ug/L			05/14/17 17:41	1
Carbon disulfide	ND		5.0	0.37	ug/L			05/14/17 17:41	1
Carbon tetrachloride	ND		5.0	0.36	ug/L			05/14/17 17:41	1
Chlorobenzene	ND		5.0	0.38	ug/L			05/14/17 17:41	1
Chloroethane	ND		10	0.38	ug/L			05/14/17 17:41	1
Chloroform	ND		5.0	0.15	ug/L			05/14/17 17:41	1
cis-1,2-Dichloroethene	ND		5.0	0.16	ug/L			05/14/17 17:41	1
cis-1,3-Dichloropropene	ND		5.0	0.34	ug/L			05/14/17 17:41	1
Dibromochloromethane	ND		5.0	0.33	ug/L			05/14/17 17:41	1
1,2-Dibromo-3-Chloropropane	ND		10	1.2	ug/L			05/14/17 17:41	1
1,2-Dibromoethane (EDB)	ND		5.0	0.44	ug/L			05/14/17 17:41	1
1,2-Dichlorobenzene	ND		5.0	0.28	ug/L			05/14/17 17:41	1
1,4-Dichlorobenzene	ND		5.0	0.35	ug/L			05/14/17 17:41	1
1,1-Dichloroethane	ND		5.0	0.39	ug/L			05/14/17 17:41	1
1,2-Dichloroethane	ND		5.0	0.37	ug/L			05/14/17 17:41	1
1,1-Dichloroethene	ND		5.0	0.37	ug/L			05/14/17 17:41	1
1,2-Dichloropropane	ND		5.0	0.32	ug/L			05/14/17 17:41	1
Ethylbenzene	ND		5.0	0.30	ug/L			05/14/17 17:41	1
2-Hexanone	ND		20	0.59	ug/L			05/14/17 17:41	1
Methyl bromide	ND		10	0.40	ug/L			05/14/17 17:41	1
Methyl chloride	ND		10	0.55	ug/L			05/14/17 17:41	1
Methylene bromide	ND		5.0	0.41	ug/L			05/14/17 17:41	1
Methylene Chloride	ND		5.0	1.7	ug/L			05/14/17 17:41	1
Methyl Ethyl Ketone	ND		20	0.39	ug/L			05/14/17 17:41	1
Methyl iodide	ND		5.0	1.5	ug/L			05/14/17 17:41	1
4-Methyl-2-pentanone (MIBK)	ND		20	0.33	ug/L			05/14/17 17:41	1
Styrene	ND		5.0	0.35	ug/L			05/14/17 17:41	1
1,1,1,2-Tetrachloroethane	ND		5.0	0.25	ug/L			05/14/17 17:41	1
1,1,2,2-Tetrachloroethane	ND		5.0	0.43	ug/L			05/14/17 17:41	1
Tetrachloroethene	ND		5.0	0.28	ug/L			05/14/17 17:41	1
Toluene	ND		5.0	1.0	ug/L			05/14/17 17:41	1
trans-1,4-Dichloro-2-butene	ND		10	0.95	ug/L			05/14/17 17:41	1
trans-1,2-Dichloroethene	ND		5.0	0.18	ug/L			05/14/17 17:41	1
trans-1,3-Dichloropropene	ND		5.0	0.35	ug/L			05/14/17 17:41	1
1,1,1-Trichloroethane	ND		5.0	0.29	ug/L			05/14/17 17:41	1
1,1,2-Trichloroethane	ND		5.0	0.57	ug/L			05/14/17 17:41	1
Trichloroethene	ND		5.0	0.29	ug/L			05/14/17 17:41	1
Trichlorofluoromethane	ND		5.0	0.22	ug/L			05/14/17 17:41	1
1,2,3-Trichloropropane	ND		5.0	0.56	ug/L			05/14/17 17:41	1
Vinyl acetate	ND		5.0	0.61	ug/L			05/14/17 17:41	1
Vinyl chloride	ND		5.0	0.43	ug/L			05/14/17 17:41	1
Xylenes, Total	ND		10	0.85	ug/L			05/14/17 17:41	1

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

Lab Sample ID: MB 160-308482/7
Matrix: Water
Analysis Batch: 308482

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

Surrogate	MB %Recovery	MB Qualifier	Limits	Prepared	Analyzed	Dil Fac
4-Bromofluorobenzene (Surr)	95		71 - 139		05/14/17 17:41	1
Dibromofluoromethane (Surr)	96		80 - 121		05/14/17 17:41	1
1,2-Dichloroethane-d4 (Surr)	93		76 - 121		05/14/17 17:41	1
Toluene-d8 (Surr)	97		80 - 129		05/14/17 17:41	1

Lab Sample ID: LCS 160-308482/4
Matrix: Water
Analysis Batch: 308482

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	50.0	49.1		ug/L		98	63 - 131
Acrylonitrile	500	506		ug/L		101	81 - 117
Benzene	50.0	43.7		ug/L		87	80 - 120
Bromochloromethane	50.0	48.7		ug/L		97	80 - 120
Bromodichloromethane	50.0	49.3		ug/L		99	80 - 120
Bromoform	50.0	50.8		ug/L		102	80 - 120
Carbon disulfide	50.0	50.5		ug/L		101	79 - 126
Carbon tetrachloride	50.0	48.2		ug/L		96	73 - 123
Chlorobenzene	50.0	46.0		ug/L		92	80 - 120
Chloroethane	50.0	47.7		ug/L		95	52 - 140
Chloroform	50.0	47.0		ug/L		94	80 - 120
cis-1,2-Dichloroethene	50.0	51.1		ug/L		102	80 - 120
cis-1,3-Dichloropropene	50.0	53.9		ug/L		108	80 - 122
Dibromochloromethane	50.0	48.5		ug/L		97	80 - 120
1,2-Dibromo-3-Chloropropane	50.0	48.8		ug/L		98	77 - 125
1,2-Dibromoethane (EDB)	50.0	49.2		ug/L		98	80 - 120
1,2-Dichlorobenzene	50.0	46.4		ug/L		93	80 - 120
1,4-Dichlorobenzene	50.0	45.1		ug/L		90	80 - 120
1,1-Dichloroethane	50.0	46.8		ug/L		94	80 - 120
1,2-Dichloroethane	50.0	46.5		ug/L		93	69 - 124
1,1-Dichloroethene	50.0	48.6		ug/L		97	77 - 126
1,2-Dichloropropane	50.0	49.0		ug/L		98	80 - 120
Ethylbenzene	50.0	47.3		ug/L		95	80 - 120
2-Hexanone	50.0	49.6		ug/L		99	64 - 136
Methyl bromide	50.0	53.9		ug/L		108	57 - 139
Methyl chloride	50.0	52.6		ug/L		105	70 - 127
Methylene bromide	50.0	49.4		ug/L		99	78 - 120
Methylene Chloride	50.0	49.0		ug/L		98	80 - 120
Methyl Ethyl Ketone	50.0	49.2		ug/L		98	70 - 130
Methyl iodide	50.0	49.6		ug/L		99	73 - 125
4-Methyl-2-pentanone (MIBK)	50.0	53.5		ug/L		107	76 - 129
Styrene	50.0	50.3		ug/L		101	80 - 120
1,1,1,2-Tetrachloroethane	50.0	45.8		ug/L		92	80 - 120
1,1,2,2-Tetrachloroethane	50.0	47.3		ug/L		95	80 - 120
Tetrachloroethene	50.0	48.2		ug/L		96	80 - 120
Toluene	50.0	49.3		ug/L		99	80 - 120
trans-1,4-Dichloro-2-butene	50.0	46.6		ug/L		93	75 - 127
trans-1,2-Dichloroethene	50.0	51.2		ug/L		102	80 - 120

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

Lab Sample ID: LCS 160-308482/4
Matrix: Water
Analysis Batch: 308482

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	50.0	51.9		ug/L		104	80 - 130
1,1,1-Trichloroethane	50.0	49.1		ug/L		98	76 - 120
1,1,2-Trichloroethane	50.0	48.4		ug/L		97	80 - 120
Trichloroethene	50.0	47.5		ug/L		95	73 - 120
Trichlorofluoromethane	50.0	50.4		ug/L		101	74 - 130
1,2,3-Trichloropropane	50.0	47.4		ug/L		95	80 - 120
Vinyl acetate	50.0	54.4		ug/L		109	37 - 140
Vinyl chloride	50.0	49.7		ug/L		99	51 - 140
Xylenes, Total	100	97.9		ug/L		98	80 - 121

Surrogate	*LCS %Recovery*	*LCS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*71 - 139*
Dibromofluoromethane (Surr)	*94*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*92*		*76 - 121*
Toluene-d8 (Surr)	*99*		*80 - 129*

Lab Sample ID: LCSD 160-308482/5
Matrix: Water
Analysis Batch: 308482

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
Acetone	50.0	47.0		ug/L		94	63 - 131	4	20
Acrylonitrile	500	500		ug/L		100	81 - 117	1	20
Benzene	50.0	43.7		ug/L		87	80 - 120	0	20
Bromochloromethane	50.0	48.2		ug/L		96	80 - 120	1	20
Bromodichloromethane	50.0	48.9		ug/L		98	80 - 120	1	20
Bromoform	50.0	50.1		ug/L		100	80 - 120	1	20
Carbon disulfide	50.0	50.5		ug/L		101	79 - 126	0	20
Carbon tetrachloride	50.0	47.4		ug/L		95	73 - 123	2	20
Chlorobenzene	50.0	46.2		ug/L		92	80 - 120	0	20
Chloroethane	50.0	48.8		ug/L		98	52 - 140	2	20
Chloroform	50.0	46.7		ug/L		93	80 - 120	1	20
cis-1,2-Dichloroethene	50.0	50.5		ug/L		101	80 - 120	1	20
cis-1,3-Dichloropropene	50.0	52.7		ug/L		105	80 - 122	2	20
Dibromochloromethane	50.0	47.3		ug/L		95	80 - 120	2	20
1,2-Dibromo-3-Chloropropane	50.0	50.2		ug/L		100	77 - 125	3	20
1,2-Dibromoethane (EDB)	50.0	49.3		ug/L		99	80 - 120	0	20
1,2-Dichlorobenzene	50.0	46.7		ug/L		93	80 - 120	1	20
1,4-Dichlorobenzene	50.0	46.3		ug/L		93	80 - 120	3	20
1,1-Dichloroethane	50.0	46.6		ug/L		93	80 - 120	1	20
1,2-Dichloroethane	50.0	45.5		ug/L		91	69 - 124	2	20
1,1-Dichloroethene	50.0	48.2		ug/L		96	77 - 126	1	20
1,2-Dichloropropane	50.0	49.7		ug/L		99	80 - 120	2	20
Ethylbenzene	50.0	47.3		ug/L		95	80 - 120	0	20
2-Hexanone	50.0	48.5		ug/L		97	64 - 136	2	20
Methyl bromide	50.0	55.1		ug/L		110	57 - 139	2	20
Methyl chloride	50.0	51.9		ug/L		104	70 - 127	1	20
Methylene bromide	50.0	48.0		ug/L		96	78 - 120	3	20

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

Lab Sample ID: LCSD 160-308482/5
Matrix: Water
Analysis Batch: 308482

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
Methylene Chloride			50.0	48.1		ug/L		96	80 - 120	2	20
Methyl Ethyl Ketone			50.0	49.5		ug/L		99	70 - 130	1	20
Methyl iodide			50.0	49.2		ug/L		98	73 - 125	1	20
4-Methyl-2-pentanone (MIBK)			50.0	52.5		ug/L		105	76 - 129	2	20
Styrene			50.0	49.0		ug/L		98	80 - 120	3	20
1,1,1,2-Tetrachloroethane			50.0	44.7		ug/L		89	80 - 120	3	20
1,1,2,2-Tetrachloroethane			50.0	46.9		ug/L		94	80 - 120	1	20
Tetrachloroethene			50.0	47.4		ug/L		95	80 - 120	2	20
Toluene			50.0	49.3		ug/L		99	80 - 120	0	20
trans-1,4-Dichloro-2-butene			50.0	47.9		ug/L		96	75 - 127	3	20
trans-1,2-Dichloroethene			50.0	50.1		ug/L		100	80 - 120	2	20
trans-1,3-Dichloropropene			50.0	49.9		ug/L		100	80 - 130	4	20
1,1,1-Trichloroethane			50.0	48.4		ug/L		97	76 - 120	1	20
1,1,2-Trichloroethane			50.0	48.4		ug/L		97	80 - 120	0	20
Trichloroethene			50.0	48.0		ug/L		96	73 - 120	1	20
Trichlorofluoromethane			50.0	48.8		ug/L		98	74 - 130	3	20
1,2,3-Trichloropropane			50.0	48.1		ug/L		96	80 - 120	2	20
Vinyl acetate			50.0	50.7		ug/L		101	37 - 140	7	20
Vinyl chloride			50.0	49.2		ug/L		98	51 - 140	1	20
Xylenes, Total			100	96.2		ug/L		96	80 - 121	2	20

Surrogate	*LCSD %Recovery*	*LCSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*103*		*71 - 139*
Dibromofluoromethane (Surr)	*94*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*90*		*76 - 121*
Toluene-d8 (Surr)	*100*		*80 - 129*

Lab Sample ID: 160-22211-A-1 MS
Matrix: Water
Analysis Batch: 308482

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Acetone	ND		50.0	43.0		ug/L		86	52 - 138
Acrylonitrile	ND		500	479		ug/L		96	58 - 142
Benzene	1.0	J	50.0	42.0		ug/L		82	80 - 120
Bromochloromethane	ND		50.0	47.1		ug/L		94	72 - 125
Bromodichloromethane	ND		50.0	48.6		ug/L		97	71 - 128
Bromoform	ND		50.0	48.7		ug/L		97	65 - 133
Carbon disulfide	ND		50.0	47.2		ug/L		94	69 - 139
Carbon tetrachloride	ND		50.0	43.7		ug/L		87	70 - 126
Chlorobenzene	ND		50.0	44.2		ug/L		88	80 - 120
Chloroethane	ND		50.0	42.9		ug/L		86	59 - 144
Chloroform	ND		50.0	46.0		ug/L		92	80 - 120
cis-1,2-Dichloroethene	ND		50.0	47.7		ug/L		95	80 - 124
cis-1,3-Dichloropropene	ND		50.0	49.2		ug/L		98	67 - 130
Dibromochloromethane	ND		50.0	45.8		ug/L		92	68 - 133
1,2-Dibromo-3-Chloropropane	ND		50.0	46.0		ug/L		92	58 - 148
1,2-Dibromoethane (EDB)	ND		50.0	46.4		ug/L		93	65 - 138

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

Lab Sample ID: 160-22211-A-1 MS
Matrix: Water
Analysis Batch: 308482

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
1,2-Dichlorobenzene	ND		50.0	45.3		ug/L		91	80 - 124
1,4-Dichlorobenzene	ND		50.0	44.2		ug/L		88	80 - 120
1,1-Dichloroethane	ND		50.0	44.7		ug/L		89	80 - 120
1,2-Dichloroethane	ND		50.0	45.3		ug/L		91	56 - 136
1,1-Dichloroethene	ND		50.0	44.2		ug/L		88	66 - 137
1,2-Dichloropropane	ND		50.0	47.2		ug/L		94	80 - 123
Ethylbenzene	ND		50.0	45.2		ug/L		90	80 - 121
2-Hexanone	ND		50.0	44.2		ug/L		88	47 - 150
Methyl bromide	ND		50.0	45.6		ug/L		91	53 - 146
Methyl chloride	ND		50.0	39.7		ug/L		79	61 - 137
Methylene bromide	ND		50.0	46.4		ug/L		93	61 - 136
Methylene Chloride	ND		50.0	46.4		ug/L		93	80 - 120
Methyl Ethyl Ketone	ND		50.0	46.0		ug/L		92	58 - 143
Methyl iodide	ND		50.0	45.8		ug/L		92	69 - 124
4-Methyl-2-pentanone (MIBK)	ND		50.0	49.0		ug/L		98	53 - 150
Styrene	ND		50.0	47.0		ug/L		94	44 - 150
1,1,1,2-Tetrachloroethane	ND		50.0	43.7		ug/L		87	80 - 120
1,1,2,2-Tetrachloroethane	ND		50.0	45.0		ug/L		90	60 - 150
Tetrachloroethene	ND		50.0	44.7		ug/L		89	66 - 132
Toluene	ND		50.0	47.4		ug/L		95	75 - 134
trans-1,4-Dichloro-2-butene	ND		50.0	42.1		ug/L		84	55 - 146
trans-1,2-Dichloroethene	ND		50.0	47.1		ug/L		94	79 - 121
trans-1,3-Dichloropropene	ND		50.0	48.4		ug/L		97	68 - 143
1,1,1-Trichloroethane	ND		50.0	45.5		ug/L		91	74 - 123
1,1,2-Trichloroethane	ND		50.0	46.4		ug/L		93	70 - 134
Trichloroethene	ND		50.0	44.8		ug/L		90	63 - 120
Trichlorofluoromethane	ND		50.0	43.1		ug/L		86	53 - 150
1,2,3-Trichloropropane	ND		50.0	47.0		ug/L		94	62 - 137
Vinyl acetate	ND		50.0	53.6		ug/L		107	63 - 150
Vinyl chloride	ND		50.0	41.8		ug/L		84	54 - 140
Xylenes, Total	ND		100	90.9		ug/L		91	80 - 124

Surrogate	*MS %Recovery*	*MS Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*98*		*71 - 139*
Dibromofluoromethane (Surr)	*91*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*91*		*76 - 121*
Toluene-d8 (Surr)	*93*		*80 - 129*

Lab Sample ID: 160-22211-A-1 MSD
Matrix: Water
Analysis Batch: 308482

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Acetone	ND		50.0	47.9		ug/L		96	52 - 138	11	20
Acrylonitrile	ND		500	527		ug/L		105	58 - 142	10	20
Benzene	1.0	J	50.0	43.5		ug/L		85	80 - 120	4	20
Bromochloromethane	ND		50.0	48.2		ug/L		96	72 - 125	2	20
Bromodichloromethane	ND		50.0	49.5		ug/L		99	71 - 128	2	20

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

Lab Sample ID: 160-22211-A-1 MSD
Matrix: Water
Analysis Batch: 308482

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Bromoform	ND		50.0	52.0		ug/L		104	65 - 133	7	20
Carbon disulfide	ND		50.0	48.1		ug/L		96	69 - 139	2	20
Carbon tetrachloride	ND		50.0	44.6		ug/L		89	70 - 126	2	20
Chlorobenzene	ND		50.0	45.0		ug/L		90	80 - 120	2	20
Chloroethane	ND		50.0	46.2		ug/L		92	59 - 144	7	20
Chloroform	ND		50.0	46.5		ug/L		93	80 - 120	1	20
cis-1,2-Dichloroethene	ND		50.0	49.5		ug/L		99	80 - 124	4	20
cis-1,3-Dichloropropene	ND		50.0	52.0		ug/L		104	67 - 130	6	20
Dibromochloromethane	ND		50.0	48.1		ug/L		96	68 - 133	5	20
1,2-Dibromo-3-Chloropropane	ND		50.0	51.5		ug/L		103	58 - 148	11	20
1,2-Dibromoethane (EDB)	ND		50.0	50.1		ug/L		100	65 - 138	8	20
1,2-Dichlorobenzene	ND		50.0	47.7		ug/L		95	80 - 124	5	20
1,4-Dichlorobenzene	ND		50.0	45.9		ug/L		92	80 - 120	4	20
1,1-Dichloroethane	ND		50.0	45.7		ug/L		91	80 - 120	2	20
1,2-Dichloroethane	ND		50.0	47.7		ug/L		95	56 - 136	5	20
1,1-Dichloroethene	ND		50.0	45.6		ug/L		91	66 - 137	3	20
1,2-Dichloropropane	ND		50.0	49.3		ug/L		99	80 - 123	4	20
Ethylbenzene	ND		50.0	46.0		ug/L		92	80 - 121	2	20
2-Hexanone	ND		50.0	50.0		ug/L		100	47 - 150	12	20
Methyl bromide	ND		50.0	50.4		ug/L		101	53 - 146	10	20
Methyl chloride	ND		50.0	43.3		ug/L		87	61 - 137	9	20
Methylene bromide	ND		50.0	50.6		ug/L		101	61 - 136	9	20
Methylene Chloride	ND		50.0	48.6		ug/L		97	80 - 120	5	20
Methyl Ethyl Ketone	ND		50.0	51.7		ug/L		103	58 - 143	12	20
Methyl iodide	ND		50.0	47.8		ug/L		96	69 - 124	4	20
4-Methyl-2-pentanone (MIBK)	ND		50.0	55.0		ug/L		110	53 - 150	12	20
Styrene	ND		50.0	49.1		ug/L		98	44 - 150	4	20
1,1,1,2-Tetrachloroethane	ND		50.0	45.2		ug/L		90	80 - 120	3	20
1,1,2,2-Tetrachloroethane	ND		50.0	49.3		ug/L		99	60 - 150	9	20
Tetrachloroethene	ND		50.0	45.2		ug/L		90	66 - 132	1	20
Toluene	ND		50.0	48.2		ug/L		96	75 - 134	2	20
trans-1,4-Dichloro-2-butene	ND		50.0	46.1		ug/L		92	55 - 146	9	20
trans-1,2-Dichloroethene	ND		50.0	48.9		ug/L		98	79 - 121	4	20
trans-1,3-Dichloropropene	ND		50.0	50.7		ug/L		101	68 - 143	5	20
1,1,1-Trichloroethane	ND		50.0	46.8		ug/L		94	74 - 123	3	20
1,1,2-Trichloroethane	ND		50.0	49.3		ug/L		99	70 - 134	6	20
Trichloroethene	ND		50.0	45.7		ug/L		91	63 - 120	2	20
Trichlorofluoromethane	ND		50.0	44.7		ug/L		89	53 - 150	4	20
1,2,3-Trichloropropane	ND		50.0	49.7		ug/L		99	62 - 137	5	20
Vinyl acetate	ND		50.0	57.8		ug/L		116	63 - 150	8	20
Vinyl chloride	ND		50.0	43.0		ug/L		86	54 - 140	3	20
Xylenes, Total	ND		100	93.7		ug/L		94	80 - 124	3	20

Surrogate	*MSD %Recovery*	*MSD Qualifier*	*Limits*
4-Bromofluorobenzene (Surr)	*102*		*71 - 139*
Dibromofluoromethane (Surr)	*93*		*80 - 121*
1,2-Dichloroethane-d4 (Surr)	*93*		*76 - 121*
Toluene-d8 (Surr)	*94*		*80 - 129*

Method: 300.0 - Anions, Ion Chromatography

Lab Sample ID: MB 160-307475/43
Matrix: Water
Analysis Batch: 307475

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	0.0510	J	0.20	0.020	mg/L			05/06/17 03:57	1

Lab Sample ID: LCS 160-307475/44
Matrix: Water
Analysis Batch: 307475

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chloride	2.00	1.93		mg/L		97	90 - 110

Lab Sample ID: MB 160-307675/10
Matrix: Water
Analysis Batch: 307675

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chloride	ND		0.20	0.020	mg/L			05/08/17 15:02	1

Lab Sample ID: LCS 160-307675/11
Matrix: Water
Analysis Batch: 307675

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

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

Lab Sample ID: MB 160-307678/38
Matrix: Water
Analysis Batch: 307678

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Iodide	ND		1.0	0.10	mg/L			05/08/17 21:35	1

Lab Sample ID: LCS 160-307678/39
Matrix: Water
Analysis Batch: 307678

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Iodide	4.00	3.91		mg/L		98	90 - 110

Lab Sample ID: 160-22117-E-2 MS
Matrix: Water
Analysis Batch: 307678

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iodide	0.44	J	4.00	4.29		mg/L		96	90 - 110

Lab Sample ID: 160-22141-9 MS
Matrix: Water
Analysis Batch: 307678

Client Sample ID: PZ-209-SS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Iodide	ND		4.00	3.79		mg/L		95	90 - 110

Lab Sample ID: 160-22117-E-2 DU
Matrix: Water
Analysis Batch: 307678

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Iodide	0.44	J		0.435	J	mg/L				1	20

Lab Sample ID: MB 160-312598/125
Matrix: Water
Analysis Batch: 312598

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Fluoride	ND		0.10	0.026	mg/L			06/10/17 00:04	1
Sulfate	ND		0.50	0.050	mg/L			06/10/17 00:04	1

Lab Sample ID: LCS 160-312598/126
Matrix: Water
Analysis Batch: 312598

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Fluoride			1.00	0.976		mg/L		98	90 - 110		
Sulfate			8.00	7.89		mg/L		99	90 - 110		

Method: 300.0 - Anions, Ion Chromatography - DL

Lab Sample ID: 160-22117-E-2 MS
Matrix: Water
Analysis Batch: 307475

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride - DL	87	B	50.0	133	E	mg/L		91	90 - 110		

Lab Sample ID: 160-22117-E-2 DU
Matrix: Water
Analysis Batch: 307475

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chloride - DL	87	B		85.9		mg/L				2	20

Lab Sample ID: 160-21816-G-7 MS
Matrix: Water
Analysis Batch: 307675

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Chloride - DL	1900		4000	5960		mg/L		100	90 - 110		

Lab Sample ID: 160-21816-G-7 DU
Matrix: Water
Analysis Batch: 307675

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Chloride - DL	1900			1950		mg/L				0.08	20

Method: 300.0 - Anions, Ion Chromatography - DL (Continued)

Lab Sample ID: 160-22141-1 MS
Matrix: Water
Analysis Batch: 312598

Client Sample ID: PZ-111-SD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Fluoride - DL	2.0	H	20.0	21.7		mg/L		98	90 - 110
Sulfate - DL	44	H	40.0	82.1		mg/L		95	90 - 110

Lab Sample ID: 160-22141-1 DU
Matrix: Water
Analysis Batch: 312598

Client Sample ID: PZ-111-SD
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Fluoride - DL	2.0	H	2.04		mg/L		3	20
Sulfate - DL	44	H	45.1		mg/L		2	20

Method: 6010C - Metals (ICP)

Lab Sample ID: MB 160-307841/1-A
Matrix: Water
Analysis Batch: 308716

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 307841

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Antimony	ND		10	3.0	ug/L		05/09/17 12:07	05/15/17 22:46	1
Iron	ND		100	30	ug/L		05/09/17 12:07	05/15/17 22:46	1
Arsenic	ND		10	4.0	ug/L		05/09/17 12:07	05/15/17 22:46	1
Barium	ND		50	15	ug/L		05/09/17 12:07	05/15/17 22:46	1
Beryllium	ND		5.0	1.5	ug/L		05/09/17 12:07	05/15/17 22:46	1
Boron	ND		100	25	ug/L		05/09/17 12:07	05/15/17 22:46	1
Cadmium	ND		5.0	1.5	ug/L		05/09/17 12:07	05/15/17 22:46	1
CaHard	ND		2500	750	ug/L		05/09/17 12:07	05/15/17 22:46	1
Calcium	ND		1000	300	ug/L		05/09/17 12:07	05/15/17 22:46	1
Chromium	ND		10	3.0	ug/L		05/09/17 12:07	05/15/17 22:46	1
Cobalt	ND		50	15	ug/L		05/09/17 12:07	05/15/17 22:46	1
Copper	ND		25	7.0	ug/L		05/09/17 12:07	05/15/17 22:46	1
Lead	ND		10	3.0	ug/L		05/09/17 12:07	05/15/17 22:46	1
Magnesium	ND		1000	300	ug/L		05/09/17 12:07	05/15/17 22:46	1
Manganese	ND		15	4.0	ug/L		05/09/17 12:07	05/15/17 22:46	1
MgHard	ND		4100	1200	ug/L		05/09/17 12:07	05/15/17 22:46	1
Nickel	ND		40	10	ug/L		05/09/17 12:07	05/15/17 22:46	1
Phosphorus	ND		250	75	ug/L		05/09/17 12:07	05/15/17 22:46	1
Selenium	ND		15	8.0	ug/L		05/09/17 12:07	05/15/17 22:46	1
Silver	ND		10	3.0	ug/L		05/09/17 12:07	05/15/17 22:46	1
Sodium	ND		1000	300	ug/L		05/09/17 12:07	05/15/17 22:46	1
Thallium	ND		20	5.0	ug/L		05/09/17 12:07	05/15/17 22:46	1
Total Hardness	ND		6600	2000	ug/L		05/09/17 12:07	05/15/17 22:46	1
Vanadium	ND		50	25	ug/L		05/09/17 12:07	05/15/17 22:46	1
Zinc	ND		20	6.0	ug/L		05/09/17 12:07	05/15/17 22:46	1

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

Lab Sample ID: LCS 160-307841/2-A
Matrix: Water
Analysis Batch: 308716

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 307841

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	500	450		ug/L		90	80 - 120
Iron	10000	10200		ug/L		102	80 - 120
Arsenic	1000	916		ug/L		92	80 - 120
Barium	1000	1030		ug/L		103	80 - 120
Beryllium	100	98.9		ug/L		99	80 - 120
Boron	200	197		ug/L		98	80 - 120
Cadmium	1000	903		ug/L		90	80 - 120
Calcium	10000	9750		ug/L		98	80 - 120
Chromium	1000	948		ug/L		95	80 - 120
Cobalt	1000	964		ug/L		96	80 - 120
Copper	1000	937		ug/L		94	80 - 120
Lead	1000	968		ug/L		97	80 - 120
Magnesium	10000	10000		ug/L		100	80 - 120
Manganese	1000	1000		ug/L		100	80 - 120
Nickel	1000	971		ug/L		97	80 - 120
Phosphorus	1000	982		ug/L		98	80 - 120
Selenium	500	458		ug/L		92	80 - 120
Silver	200	189		ug/L		94	80 - 120
Sodium	10000	10100		ug/L		101	80 - 120
Thallium	200	205		ug/L		102	80 - 120
Vanadium	1000	1010		ug/L		101	80 - 120
Zinc	1000	909		ug/L		91	80 - 120

Lab Sample ID: 160-22141-1 MS
Matrix: Water
Analysis Batch: 308716

Client Sample ID: PZ-111-SD
Prep Type: Total/NA
Prep Batch: 307841

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Antimony	ND		500	464		ug/L		93	75 - 125
Iron	900		10000	11300		ug/L		104	75 - 125
Arsenic	ND		1000	945		ug/L		95	75 - 125
Barium	110	J	1000	1180		ug/L		107	75 - 125
Beryllium	ND		100	101		ug/L		101	75 - 125
Boron	ND		200	235	J	ug/L		118	75 - 125
Cadmium	ND		1000	935		ug/L		93	75 - 125
Calcium	89000		10000	102000	4	ug/L		128	75 - 125
Chromium	ND		1000	960		ug/L		96	75 - 125
Cobalt	ND		1000	980		ug/L		98	75 - 125
Copper	ND		1000	976		ug/L		98	75 - 125
Lead	ND		1000	998		ug/L		100	75 - 125
Magnesium	54000		10000	64000	4	ug/L		102	75 - 125
Manganese	110		1000	1040		ug/L		93	75 - 125
Nickel	ND		1000	989		ug/L		99	75 - 125
Phosphorus	ND		1000	1030	J	ug/L		103	75 - 125
Selenium	ND		500	497		ug/L		99	75 - 125
Silver	ND		200	194		ug/L		97	75 - 125
Sodium	19000		10000	29700		ug/L		111	75 - 125
Thallium	ND		200	215		ug/L		108	75 - 125

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

Lab Sample ID: 160-22141-1 MS
Matrix: Water
Analysis Batch: 308716

Client Sample ID: PZ-111-SD
Prep Type: Total/NA
Prep Batch: 307841

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Vanadium	ND		1000	1020		ug/L		102	75 - 125
Zinc	ND		1000	941		ug/L		94	75 - 125

Lab Sample ID: 160-22141-1 MSD
Matrix: Water
Analysis Batch: 308716

Client Sample ID: PZ-111-SD
Prep Type: Total/NA
Prep Batch: 307841

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Antimony	ND		500	468		ug/L		94	75 - 125	1	20
Iron	900		10000	11000		ug/L		101	75 - 125	3	20
Arsenic	ND		1000	942		ug/L		94	75 - 125	0	20
Barium	110	J	1000	1140		ug/L		102	75 - 125	4	20
Beryllium	ND		100	99.0		ug/L		99	75 - 125	2	20
Boron	ND		200	225	J	ug/L		112	75 - 125	5	20
Cadmium	ND		1000	926		ug/L		93	75 - 125	1	20
Calcium	89000		10000	101000	4	ug/L		121	75 - 125	1	20
Chromium	ND		1000	949		ug/L		95	75 - 125	1	20
Cobalt	ND		1000	968		ug/L		97	75 - 125	1	20
Copper	ND		1000	965		ug/L		97	75 - 125	1	20
Lead	ND		1000	988		ug/L		99	75 - 125	1	20
Magnesium	54000		10000	63000	4	ug/L		93	75 - 125	1	20
Manganese	110		1000	1040		ug/L		93	75 - 125	0	20
Nickel	ND		1000	977		ug/L		98	75 - 125	1	20
Phosphorus	ND		1000	1030	J	ug/L		103	75 - 125	0	20
Selenium	ND		500	472		ug/L		94	75 - 125	5	20
Silver	ND		200	191		ug/L		96	75 - 125	2	20
Sodium	19000		10000	28800		ug/L		102	75 - 125	3	20
Thallium	ND		200	216		ug/L		108	75 - 125	0	20
Vanadium	ND		1000	979		ug/L		98	75 - 125	4	20
Zinc	ND		1000	930		ug/L		93	75 - 125	1	20

Method: 7470A - Mercury (CVAA)

Lab Sample ID: MB 160-309787/1-A
Matrix: Water
Analysis Batch: 309862

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 309787

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Mercury	ND		0.20	0.060	ug/L		05/22/17 09:55	05/22/17 19:17	1

Lab Sample ID: LCS 160-309787/2-A
Matrix: Water
Analysis Batch: 309862

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 309787

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	5.00	4.56		ug/L		91	80 - 120

Method: 7470A - Mercury (CVAA) (Continued)

Lab Sample ID: 160-22117-I-3-C MS
Matrix: Water
Analysis Batch: 309862

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 309787

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Mercury	ND		5.00	4.17		ug/L		83	80 - 120

Lab Sample ID: 160-22117-I-3-D MSD
Matrix: Water
Analysis Batch: 309862

Client Sample ID: Matrix Spike Duplicate
Prep Type: Total/NA
Prep Batch: 309787

Analyte	Sample Result	Sample Qualifier	Spike Added	MSD Result	MSD Qualifier	Unit	D	%Rec	%Rec. Limits	RPD	RPD Limit
Mercury	ND		5.00	4.21		ug/L		84	80 - 120	1	20

Method: 160.1 - Solids, Total Dissolved (TDS)

Lab Sample ID: MB 160-307314/1
Matrix: Water
Analysis Batch: 307314

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	ND		5.0	3.5	mg/L			05/05/17 07:13	1

Lab Sample ID: LCS 160-307314/2
Matrix: Water
Analysis Batch: 307314

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids (TDS)	500	500		mg/L		100	90 - 110

Lab Sample ID: 160-22117-E-2 DU
Matrix: Water
Analysis Batch: 307314

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Dissolved Solids (TDS)	780		785		mg/L		0.1	5

Lab Sample ID: MB 160-307546/1
Matrix: Water
Analysis Batch: 307546

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Total Dissolved Solids (TDS)	ND		5.0	3.5	mg/L			05/08/17 07:53	1

Lab Sample ID: LCS 160-307546/2
Matrix: Water
Analysis Batch: 307546

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Dissolved Solids (TDS)	500	499		mg/L		100	90 - 110

Method: 160.1 - Solids, Total Dissolved (TDS) (Continued)

Lab Sample ID: 680-138197-F-2 DU
Matrix: Water
Analysis Batch: 307546

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Total Dissolved Solids (TDS)	230			234		mg/L				2	5

Method: 350.1 - Nitrogen, Ammonia

Lab Sample ID: MB 160-310709/15
Matrix: Water
Analysis Batch: 310709

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Ammonia	25.4	J	50	22	ug/L			05/25/17 16:46	1

Lab Sample ID: LCS 160-310709/16
Matrix: Water
Analysis Batch: 310709

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

Analyte			Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia			500	493		ug/L		99	90 - 110		

Method: 350.1 - Nitrogen, Ammonia - DL

Lab Sample ID: 160-22117-G-2 MS ^10
Matrix: Water
Analysis Batch: 310709

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits		
Ammonia - DL	2900	B F1	5000	5380	F1	ug/L		51	90 - 110		

Lab Sample ID: 160-22117-G-2 DU ^10
Matrix: Water
Analysis Batch: 310709

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier		DU Result	DU Qualifier	Unit	D			RPD	RPD Limit
Ammonia - DL	2900	B F1		2980		ug/L				4	20

Method: 353.1 Preserved - Nitrogen, Nitrate-Nitrite

Lab Sample ID: MB 160-310165/17
Matrix: Water
Analysis Batch: 310165

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

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Nitrate Nitrite as N	41.1	J	50	22	ug/L			05/23/17 16:23	1

Method: 353.1 Preserved - Nitrogen, Nitrate-Nitrite (Continued)

Lab Sample ID: LCS 160-310165/18
Matrix: Water
Analysis Batch: 310165

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

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	500	493		ug/L		99	90 - 110

Lab Sample ID: 160-22117-G-2 MS
Matrix: Water
Analysis Batch: 310165

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Nitrate Nitrite as N	24	J B F1	500	28.0	J F1	ug/L		0.8	90 - 110

Lab Sample ID: 160-22117-G-2 DU
Matrix: Water
Analysis Batch: 310165

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Nitrate Nitrite as N	24	J B F1	24.0	J	ug/L		0	20

Method: 410.4 - COD

Lab Sample ID: MB 160-309415/3-A
Matrix: Water
Analysis Batch: 309630

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 309415

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		5.0	2.4	mg/L		05/19/17 10:13	05/19/17 14:15	1

Lab Sample ID: LCS 160-309415/4-A
Matrix: Water
Analysis Batch: 309630

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 309415

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	50.0	51.0		mg/L		102	90 - 110

Lab Sample ID: 160-22141-1 MS
Matrix: Water
Analysis Batch: 309630

Client Sample ID: PZ-111-SD
Prep Type: Total/NA
Prep Batch: 309415

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	3.0	J	50.0	52.0		mg/L		98	90 - 110

Lab Sample ID: 160-22141-1 DU
Matrix: Water
Analysis Batch: 309630

Client Sample ID: PZ-111-SD
Prep Type: Total/NA
Prep Batch: 309415

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chemical Oxygen Demand	3.0	J	ND		mg/L		NC	20

Method: 410.4 - COD (Continued)

Lab Sample ID: MB 160-311005/3-A
Matrix: Water
Analysis Batch: 311134

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 311005

Analyte	MB Result	MB Qualifier	RL	MDL	Unit	D	Prepared	Analyzed	Dil Fac
Chemical Oxygen Demand	ND		5.0	2.4	mg/L		05/30/17 08:15	05/30/17 14:00	1

Lab Sample ID: LCS 160-311005/4-A
Matrix: Water
Analysis Batch: 311134

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 311005

Analyte	Spike Added	LCS Result	LCS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	50.0	50.0		mg/L		100	90 - 110

Lab Sample ID: 160-22211-E-2-C MS
Matrix: Water
Analysis Batch: 311134

Client Sample ID: Matrix Spike
Prep Type: Total/NA
Prep Batch: 311005

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Chemical Oxygen Demand	3.0	J	50.0	53.0		mg/L		100	90 - 110

Lab Sample ID: 160-22211-E-2-B DU
Matrix: Water
Analysis Batch: 311134

Client Sample ID: Duplicate
Prep Type: Total/NA
Prep Batch: 311005

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Chemical Oxygen Demand	3.0	J	3.00	J	mg/L		0	20

Method: 415.1 - TOC

Lab Sample ID: MB 160-310102/4
Matrix: Water
Analysis Batch: 310102

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	ND		1.0	0.72	mg/L			05/22/17 15:58	1

Lab Sample ID: LCS 160-310102/5
Matrix: Water
Analysis Batch: 310102

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	10.0	9.82		mg/L		98	90 - 110

Lab Sample ID: 160-22141-9 MS
Matrix: Water
Analysis Batch: 310102

Client Sample ID: PZ-209-SS
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon	1.9		5.00	7.04		mg/L		103	76 - 120

Method: 415.1 - TOC - DL

Lab Sample ID: 160-22117-G-2 MS ^5
Matrix: Water
Analysis Batch: 310102

Client Sample ID: Matrix Spike
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	Spike Added	MS Result	MS Qualifier	Unit	D	%Rec	%Rec. Limits
Total Organic Carbon - DL	14		25.0	43.3		mg/L		116	76 - 120

Lab Sample ID: 160-22117-G-2 DU ^5
Matrix: Water
Analysis Batch: 310102

Client Sample ID: Duplicate
Prep Type: Total/NA

Analyte	Sample Result	Sample Qualifier	DU Result	DU Qualifier	Unit	D	RPD	RPD Limit
Total Organic Carbon - DL	14		16.7		mg/L		16	20

Method: 906.0 - Tritium, Total (LSC)

Lab Sample ID: MB 160-311188/1-A
Matrix: Water
Analysis Batch: 311507

Client Sample ID: Method Blank
Prep Type: Total/NA
Prep Batch: 311188

Analyte	MB Result	MB Qualifier	Count Uncert. (2σ+/-)	Total Uncert. (2σ+/-)	RL	MDC	Unit	Prepared	Analyzed	Dil Fac
Tritium	-95.04	U	130	130	500	255	pCi/L	05/30/17 19:12	05/31/17 10:07	1

Lab Sample ID: LCS 160-311188/2-A
Matrix: Water
Analysis Batch: 311507

Client Sample ID: Lab Control Sample
Prep Type: Total/NA
Prep Batch: 311188

Analyte	Spike Added	LCS Result	LCS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Tritium	2910	2594		388	500	254	pCi/L	89	74 - 114

Lab Sample ID: 160-22141-2 MS
Matrix: Water
Analysis Batch: 311507

Client Sample ID: PZ-109-SS
Prep Type: Total/NA
Prep Batch: 311188

Analyte	Sample Result	Sample Qual	Spike Added	MS Result	MS Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	%Rec	%Rec. Limits
Tritium	-98.2	U	5810	4945		603	500	260	pCi/L	85	67 - 130

Lab Sample ID: 160-22141-1 DU
Matrix: Water
Analysis Batch: 311507

Client Sample ID: PZ-111-SD
Prep Type: Total/NA
Prep Batch: 311188

Analyte	Sample Result	Sample Qual	DU Result	DU Qual	Total Uncert. (2σ+/-)	RL	MDC	Unit	RER	RER Limit
Tritium	-37.8	U	26.58	U	142	500	251	pCi/L	0.23	1

GC/MS VOA

Analysis Batch: 307897

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22141-7	PZ-202-SS	Total/NA	Water	8260C	
160-22141-8	PZ-209-SD	Total/NA	Water	8260C	
160-22141-9	PZ-209-SS	Total/NA	Water	8260C	
160-22141-10	TRIP BLANK	Total/NA	Water	8260C	
160-22141-11	TRIP BLANK	Total/NA	Water	8260C	
MB 160-307897/7	Method Blank	Total/NA	Water	8260C	
LCS 160-307897/3	Lab Control Sample	Total/NA	Water	8260C	
LCSD 160-307897/4	Lab Control Sample Dup	Total/NA	Water	8260C	
160-22117-A-2 MS	Matrix Spike	Total/NA	Water	8260C	
160-22117-A-2 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

Analysis Batch: 308357

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22141-1	PZ-111-SD	Total/NA	Water	8260C	
160-22141-2	PZ-109-SS	Total/NA	Water	8260C	
160-22141-3	PZ-210-SD	Total/NA	Water	8260C	
160-22141-4	PZ-210-SS	Total/NA	Water	8260C	
160-22141-7 - DL	PZ-202-SS	Total/NA	Water	8260C	
MB 160-308357/13	Method Blank	Total/NA	Water	8260C	
LCS 160-308357/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 160-308357/5	Lab Control Sample Dup	Total/NA	Water	8260C	
160-22271-A-3 MS	Matrix Spike	Total/NA	Water	8260C	
160-22271-A-3 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

Analysis Batch: 308482

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22141-5	PZ-211-SD	Total/NA	Water	8260C	
160-22141-6	PZ-211-SS	Total/NA	Water	8260C	
MB 160-308482/7	Method Blank	Total/NA	Water	8260C	
LCS 160-308482/4	Lab Control Sample	Total/NA	Water	8260C	
LCSD 160-308482/5	Lab Control Sample Dup	Total/NA	Water	8260C	
160-22211-A-1 MS	Matrix Spike	Total/NA	Water	8260C	
160-22211-A-1 MSD	Matrix Spike Duplicate	Total/NA	Water	8260C	

HPLC/IC

Analysis Batch: 307475

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22141-1 - DL	PZ-111-SD	Total/NA	Water	300.0	
160-22141-2 - DL	PZ-109-SS	Total/NA	Water	300.0	
160-22141-3 - DL	PZ-210-SD	Total/NA	Water	300.0	
160-22141-4 - DL	PZ-210-SS	Total/NA	Water	300.0	
160-22141-5 - DL	PZ-211-SD	Total/NA	Water	300.0	
160-22141-6 - DL	PZ-211-SS	Total/NA	Water	300.0	
160-22141-8 - DL	PZ-209-SD	Total/NA	Water	300.0	
MB 160-307475/43	Method Blank	Total/NA	Water	300.0	
LCS 160-307475/44	Lab Control Sample	Total/NA	Water	300.0	
160-22117-E-2 MS - DL	Matrix Spike	Total/NA	Water	300.0	
160-22117-E-2 DU - DL	Duplicate	Total/NA	Water	300.0	

HPLC/IC (Continued)

Analysis Batch: 307675

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22141-7 - DL2	PZ-202-SS	Total/NA	Water	300.0	
160-22141-9 - DL	PZ-209-SS	Total/NA	Water	300.0	
MB 160-307675/10	Method Blank	Total/NA	Water	300.0	
LCS 160-307675/11	Lab Control Sample	Total/NA	Water	300.0	
160-21816-G-7 MS - DL	Matrix Spike	Total/NA	Water	300.0	
160-21816-G-7 DU - DL	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 307678

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22141-1	PZ-111-SD	Total/NA	Water	300.0	
160-22141-2	PZ-109-SS	Total/NA	Water	300.0	
160-22141-3	PZ-210-SD	Total/NA	Water	300.0	
160-22141-4	PZ-210-SS	Total/NA	Water	300.0	
160-22141-5	PZ-211-SD	Total/NA	Water	300.0	
160-22141-6	PZ-211-SS	Total/NA	Water	300.0	
160-22141-7	PZ-202-SS	Total/NA	Water	300.0	
160-22141-8	PZ-209-SD	Total/NA	Water	300.0	
160-22141-9	PZ-209-SS	Total/NA	Water	300.0	
MB 160-307678/38	Method Blank	Total/NA	Water	300.0	
LCS 160-307678/39	Lab Control Sample	Total/NA	Water	300.0	
160-22117-E-2 MS	Matrix Spike	Total/NA	Water	300.0	
160-22141-9 MS	PZ-209-SS	Total/NA	Water	300.0	
160-22117-E-2 DU	Duplicate	Total/NA	Water	300.0	

Analysis Batch: 312598

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22141-1 - DL	PZ-111-SD	Total/NA	Water	300.0	
160-22141-2 - DL	PZ-109-SS	Total/NA	Water	300.0	
160-22141-3 - DL	PZ-210-SD	Total/NA	Water	300.0	
160-22141-4 - DL	PZ-210-SS	Total/NA	Water	300.0	
160-22141-5 - DL	PZ-211-SD	Total/NA	Water	300.0	
160-22141-6 - DL	PZ-211-SS	Total/NA	Water	300.0	
160-22141-7 - DL	PZ-202-SS	Total/NA	Water	300.0	
160-22141-8 - DL	PZ-209-SD	Total/NA	Water	300.0	
160-22141-9 - DL	PZ-209-SS	Total/NA	Water	300.0	
MB 160-312598/125	Method Blank	Total/NA	Water	300.0	
LCS 160-312598/126	Lab Control Sample	Total/NA	Water	300.0	
160-22141-1 MS - DL	PZ-111-SD	Total/NA	Water	300.0	
160-22141-1 DU - DL	PZ-111-SD	Total/NA	Water	300.0	

Metals

Prep Batch: 307841

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22141-1	PZ-111-SD	Total/NA	Water	3010A	
160-22141-2	PZ-109-SS	Total/NA	Water	3010A	
160-22141-3	PZ-210-SD	Total/NA	Water	3010A	
160-22141-4	PZ-210-SS	Total/NA	Water	3010A	
160-22141-5	PZ-211-SD	Total/NA	Water	3010A	
160-22141-6	PZ-211-SS	Total/NA	Water	3010A	

Metals (Continued)

Prep Batch: 307841 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22141-7	PZ-202-SS	Total/NA	Water	3010A	
160-22141-8	PZ-209-SD	Total/NA	Water	3010A	
160-22141-9	PZ-209-SS	Total/NA	Water	3010A	
MB 160-307841/1-A	Method Blank	Total/NA	Water	3010A	
LCS 160-307841/2-A	Lab Control Sample	Total/NA	Water	3010A	
160-22141-1 MS	PZ-111-SD	Total/NA	Water	3010A	
160-22141-1 MSD	PZ-111-SD	Total/NA	Water	3010A	

Analysis Batch: 308716

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22141-1	PZ-111-SD	Total/NA	Water	6010C	307841
160-22141-2	PZ-109-SS	Total/NA	Water	6010C	307841
160-22141-3	PZ-210-SD	Total/NA	Water	6010C	307841
160-22141-4	PZ-210-SS	Total/NA	Water	6010C	307841
160-22141-5	PZ-211-SD	Total/NA	Water	6010C	307841
160-22141-6	PZ-211-SS	Total/NA	Water	6010C	307841
160-22141-7	PZ-202-SS	Total/NA	Water	6010C	307841
160-22141-8	PZ-209-SD	Total/NA	Water	6010C	307841
160-22141-9	PZ-209-SS	Total/NA	Water	6010C	307841
MB 160-307841/1-A	Method Blank	Total/NA	Water	6010C	307841
LCS 160-307841/2-A	Lab Control Sample	Total/NA	Water	6010C	307841
160-22141-1 MS	PZ-111-SD	Total/NA	Water	6010C	307841
160-22141-1 MSD	PZ-111-SD	Total/NA	Water	6010C	307841

Prep Batch: 309787

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22141-1	PZ-111-SD	Total/NA	Water	7470A	
160-22141-2	PZ-109-SS	Total/NA	Water	7470A	
160-22141-3	PZ-210-SD	Total/NA	Water	7470A	
160-22141-4	PZ-210-SS	Total/NA	Water	7470A	
160-22141-5	PZ-211-SD	Total/NA	Water	7470A	
160-22141-6	PZ-211-SS	Total/NA	Water	7470A	
160-22141-7	PZ-202-SS	Total/NA	Water	7470A	
160-22141-8	PZ-209-SD	Total/NA	Water	7470A	
160-22141-9	PZ-209-SS	Total/NA	Water	7470A	
MB 160-309787/1-A	Method Blank	Total/NA	Water	7470A	
LCS 160-309787/2-A	Lab Control Sample	Total/NA	Water	7470A	
160-22117-I-3-C MS	Matrix Spike	Total/NA	Water	7470A	
160-22117-I-3-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	

Analysis Batch: 309862

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22141-1	PZ-111-SD	Total/NA	Water	7470A	309787
160-22141-2	PZ-109-SS	Total/NA	Water	7470A	309787
160-22141-3	PZ-210-SD	Total/NA	Water	7470A	309787
160-22141-4	PZ-210-SS	Total/NA	Water	7470A	309787
160-22141-5	PZ-211-SD	Total/NA	Water	7470A	309787
160-22141-6	PZ-211-SS	Total/NA	Water	7470A	309787
160-22141-7	PZ-202-SS	Total/NA	Water	7470A	309787
160-22141-8	PZ-209-SD	Total/NA	Water	7470A	309787
160-22141-9	PZ-209-SS	Total/NA	Water	7470A	309787

Metals (Continued)

Analysis Batch: 309862 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
MB 160-309787/1-A	Method Blank	Total/NA	Water	7470A	309787
LCS 160-309787/2-A	Lab Control Sample	Total/NA	Water	7470A	309787
160-22117-I-3-C MS	Matrix Spike	Total/NA	Water	7470A	309787
160-22117-I-3-D MSD	Matrix Spike Duplicate	Total/NA	Water	7470A	309787

Analysis Batch: 312045

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22141-7	PZ-202-SS	Total/NA	Water	6010C	307841

General Chemistry

Analysis Batch: 307314

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22141-1	PZ-111-SD	Total/NA	Water	160.1	
160-22141-2	PZ-109-SS	Total/NA	Water	160.1	
160-22141-3	PZ-210-SD	Total/NA	Water	160.1	
160-22141-4	PZ-210-SS	Total/NA	Water	160.1	
160-22141-5	PZ-211-SD	Total/NA	Water	160.1	
MB 160-307314/1	Method Blank	Total/NA	Water	160.1	
LCS 160-307314/2	Lab Control Sample	Total/NA	Water	160.1	
160-22117-E-2 DU	Duplicate	Total/NA	Water	160.1	

Analysis Batch: 307546

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22141-6	PZ-211-SS	Total/NA	Water	160.1	
160-22141-7	PZ-202-SS	Total/NA	Water	160.1	
160-22141-8	PZ-209-SD	Total/NA	Water	160.1	
160-22141-9	PZ-209-SS	Total/NA	Water	160.1	
MB 160-307546/1	Method Blank	Total/NA	Water	160.1	
LCS 160-307546/2	Lab Control Sample	Total/NA	Water	160.1	
680-138197-F-2 DU	Duplicate	Total/NA	Water	160.1	

Prep Batch: 309415

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22141-1	PZ-111-SD	Total/NA	Water	410.4	
160-22141-2	PZ-109-SS	Total/NA	Water	410.4	
160-22141-3	PZ-210-SD	Total/NA	Water	410.4	
160-22141-4	PZ-210-SS	Total/NA	Water	410.4	
160-22141-5	PZ-211-SD	Total/NA	Water	410.4	
MB 160-309415/3-A	Method Blank	Total/NA	Water	410.4	
LCS 160-309415/4-A	Lab Control Sample	Total/NA	Water	410.4	
160-22141-1 MS	PZ-111-SD	Total/NA	Water	410.4	
160-22141-1 DU	PZ-111-SD	Total/NA	Water	410.4	

Analysis Batch: 309630

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22141-1	PZ-111-SD	Total/NA	Water	410.4	309415
160-22141-2	PZ-109-SS	Total/NA	Water	410.4	309415
160-22141-3	PZ-210-SD	Total/NA	Water	410.4	309415
160-22141-4	PZ-210-SS	Total/NA	Water	410.4	309415

General Chemistry (Continued)

Analysis Batch: 309630 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22141-5	PZ-211-SD	Total/NA	Water	410.4	309415
MB 160-309415/3-A	Method Blank	Total/NA	Water	410.4	309415
LCS 160-309415/4-A	Lab Control Sample	Total/NA	Water	410.4	309415
160-22141-1 MS	PZ-111-SD	Total/NA	Water	410.4	309415
160-22141-1 DU	PZ-111-SD	Total/NA	Water	410.4	309415

Analysis Batch: 310102

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22141-1	PZ-111-SD	Total/NA	Water	415.1	
160-22141-2	PZ-109-SS	Total/NA	Water	415.1	
160-22141-3 - DL	PZ-210-SD	Total/NA	Water	415.1	
160-22141-4 - DL	PZ-210-SS	Total/NA	Water	415.1	
160-22141-5	PZ-211-SD	Total/NA	Water	415.1	
160-22141-6	PZ-211-SS	Total/NA	Water	415.1	
160-22141-7 - DL	PZ-202-SS	Total/NA	Water	415.1	
160-22141-8	PZ-209-SD	Total/NA	Water	415.1	
160-22141-9	PZ-209-SS	Total/NA	Water	415.1	
MB 160-310102/4	Method Blank	Total/NA	Water	415.1	
LCS 160-310102/5	Lab Control Sample	Total/NA	Water	415.1	
160-22117-G-2 MS ^5 - DL	Matrix Spike	Total/NA	Water	415.1	
160-22141-9 MS	PZ-209-SS	Total/NA	Water	415.1	
160-22117-G-2 DU ^5 - DL	Duplicate	Total/NA	Water	415.1	

Analysis Batch: 310165

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22141-1	PZ-111-SD	Total/NA	Water	353.1 Preserved	
160-22141-2	PZ-109-SS	Total/NA	Water	353.1 Preserved	
160-22141-3	PZ-210-SD	Total/NA	Water	353.1 Preserved	
160-22141-4	PZ-210-SS	Total/NA	Water	353.1 Preserved	
160-22141-5	PZ-211-SD	Total/NA	Water	353.1 Preserved	
160-22141-6	PZ-211-SS	Total/NA	Water	353.1 Preserved	
160-22141-7	PZ-202-SS	Total/NA	Water	353.1 Preserved	
160-22141-8	PZ-209-SD	Total/NA	Water	353.1 Preserved	
160-22141-9	PZ-209-SS	Total/NA	Water	353.1 Preserved	
MB 160-310165/17	Method Blank	Total/NA	Water	353.1 Preserved	
LCS 160-310165/18	Lab Control Sample	Total/NA	Water	353.1 Preserved	
160-22117-G-2 MS	Matrix Spike	Total/NA	Water	353.1 Preserved	
160-22117-G-2 DU	Duplicate	Total/NA	Water	353.1 Preserved	

Analysis Batch: 310709

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22141-1	PZ-111-SD	Total/NA	Water	350.1	
160-22141-2	PZ-109-SS	Total/NA	Water	350.1	
160-22141-3 - DL	PZ-210-SD	Total/NA	Water	350.1	
160-22141-4	PZ-210-SS	Total/NA	Water	350.1	
160-22141-5	PZ-211-SD	Total/NA	Water	350.1	
160-22141-6	PZ-211-SS	Total/NA	Water	350.1	
160-22141-7	PZ-202-SS	Total/NA	Water	350.1	
160-22141-8	PZ-209-SD	Total/NA	Water	350.1	
160-22141-9	PZ-209-SS	Total/NA	Water	350.1	
MB 160-310709/15	Method Blank	Total/NA	Water	350.1	

General Chemistry (Continued)

Analysis Batch: 310709 (Continued)

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
LCS 160-310709/16	Lab Control Sample	Total/NA	Water	350.1	
160-22117-G-2 MS ^10 - DL	Matrix Spike	Total/NA	Water	350.1	
160-22117-G-2 DU ^10 - DL	Duplicate	Total/NA	Water	350.1	

Prep Batch: 311005

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22141-6	PZ-211-SS	Total/NA	Water	410.4	
160-22141-7 - DL	PZ-202-SS	Total/NA	Water	410.4	
160-22141-8	PZ-209-SD	Total/NA	Water	410.4	
160-22141-9	PZ-209-SS	Total/NA	Water	410.4	
MB 160-311005/3-A	Method Blank	Total/NA	Water	410.4	
LCS 160-311005/4-A	Lab Control Sample	Total/NA	Water	410.4	
160-22211-E-2-C MS	Matrix Spike	Total/NA	Water	410.4	
160-22211-E-2-B DU	Duplicate	Total/NA	Water	410.4	

Analysis Batch: 311134

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22141-6	PZ-211-SS	Total/NA	Water	410.4	311005
160-22141-7 - DL	PZ-202-SS	Total/NA	Water	410.4	311005
160-22141-8	PZ-209-SD	Total/NA	Water	410.4	311005
160-22141-9	PZ-209-SS	Total/NA	Water	410.4	311005
MB 160-311005/3-A	Method Blank	Total/NA	Water	410.4	311005
LCS 160-311005/4-A	Lab Control Sample	Total/NA	Water	410.4	311005
160-22211-E-2-C MS	Matrix Spike	Total/NA	Water	410.4	311005
160-22211-E-2-B DU	Duplicate	Total/NA	Water	410.4	311005

Rad

Prep Batch: 311188

Lab Sample ID	Client Sample ID	Prep Type	Matrix	Method	Prep Batch
160-22141-1	PZ-111-SD	Total/NA	Water	LSC_Dist_Susp	
160-22141-2	PZ-109-SS	Total/NA	Water	LSC_Dist_Susp	
160-22141-3	PZ-210-SD	Total/NA	Water	LSC_Dist_Susp	
160-22141-4	PZ-210-SS	Total/NA	Water	LSC_Dist_Susp	
160-22141-5	PZ-211-SD	Total/NA	Water	LSC_Dist_Susp	
160-22141-6	PZ-211-SS	Total/NA	Water	LSC_Dist_Susp	
160-22141-7	PZ-202-SS	Total/NA	Water	LSC_Dist_Susp	
160-22141-8	PZ-209-SD	Total/NA	Water	LSC_Dist_Susp	
160-22141-9	PZ-209-SS	Total/NA	Water	LSC_Dist_Susp	
MB 160-311188/1-A	Method Blank	Total/NA	Water	LSC_Dist_Susp	
LCS 160-311188/2-A	Lab Control Sample	Total/NA	Water	LSC_Dist_Susp	
160-22141-2 MS	PZ-109-SS	Total/NA	Water	LSC_Dist_Susp	
160-22141-1 DU	PZ-111-SD	Total/NA	Water	LSC_Dist_Susp	

Surrogate Summary

Client: Missouri Attorney General's Office
Project/Site: Groundwater -2nd Quarter Sampling Event

TestAmerica Job ID: 160-22141-1

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

Matrix: Water

Prep Type: Total/NA

		Percent Surrogate Recovery (Acceptance Limits)			
		BFB	DBFM	12DCE	TOL
Lab Sample ID	Client Sample ID	(71-139)	(80-121)	(76-121)	(80-129)
160-22117-A-2 MS	Matrix Spike	104	99	102	104
160-22117-A-2 MSD	Matrix Spike Duplicate	107	103	105	105
160-22141-1	PZ-111-SD	101	108	108	104
160-22141-2	PZ-109-SS	101	108	107	103
160-22141-3	PZ-210-SD	102	106	106	104
160-22141-4	PZ-210-SS	100	107	105	102
160-22141-5	PZ-211-SD	95	98	97	94
160-22141-6	PZ-211-SS	97	97	97	94
160-22141-7	PZ-202-SS	121	104	105	111
160-22141-7 - DL	PZ-202-SS	99	102	98	100
160-22141-8	PZ-209-SD	113	99	98	103
160-22141-9	PZ-209-SS	115	104	104	107
160-22141-10	TRIP BLANK	114	96	96	104
160-22141-11	TRIP BLANK	115	99	99	105
160-22211-A-1 MS	Matrix Spike	98	91	91	93
160-22211-A-1 MSD	Matrix Spike Duplicate	102	93	93	94
160-22271-A-3 MS	Matrix Spike	101	94	91	99
160-22271-A-3 MSD	Matrix Spike Duplicate	104	95	92	103
LCS 160-307897/3	Lab Control Sample	102	98	97	104
LCS 160-308357/4	Lab Control Sample	106	97	94	103
LCS 160-308482/4	Lab Control Sample	98	94	92	99
LCSD 160-307897/4	Lab Control Sample Dup	102	98	97	103
LCSD 160-308357/5	Lab Control Sample Dup	104	96	90	104
LCSD 160-308482/5	Lab Control Sample Dup	103	94	90	100
MB 160-307897/7	Method Blank	121	97	99	106
MB 160-308357/13	Method Blank	100	101	94	104
MB 160-308482/7	Method Blank	95	96	93	97

Surrogate Legend

BFB = 4-Bromofluorobenzene (Surr)
DBFM = Dibromofluoromethane (Surr)
12DCE = 1,2-Dichloroethane-d4 (Surr)
TOL = Toluene-d8 (Surr)