

June 27, 2019

CH 1974791:1 **Coliform Bacteria Analysis**

Customer ID : 7012929

American Technologies, Inc.

Attn: Cesar Santos

2965 Ramco Street

West Sacramento, CA 95691

System Number : N/A

Project Name : 943 Buschmann Rd., Paradise, CA 95969

Analytical Results

ID	Sample Description	Total	Fecal	E. Coli	Units	Method	Prep	Footnote
1	Well	Absent	---	Absent	A/P/100ml	SM 9223B	Colilert-P/A 18	

N/R Not Required

MPN Most Probable Number

A/P Absence/Presence

The samples listed above were Acceptable for both Total and Fecal Coliform

Sample Handling Information

ID	Sample Number	System Number	Sample Type/Reason	Sampler	Employed By	Sampled
1	CH 1974791-001	N/A	Source-Other	Stephen Semple	FGL Environmental	2019-06-21 14:47

Field Analysis/QA Information

ID	Sample Description	Cl Total/Free mg/l	Temp	Analysis Started	Analysis Completed	Contact	Contacted
1	Well	---/---	---	2019-06-21 16:54 BTZ	2019-06-22 14:11 BTZ	N/R	

Analyses were performed at the FGL Chico Laboratory using Standard Methods 20th edition. If you have any questions regarding your results, please call.

Prepared By: GMA

Reviewed and Approved By **Raquel R. Harvey**  Digitally signed by Raquel R. Harvey
 Title: Tech Director Microbiology
 Date: 2019-06-28

July 9, 2019

American Technologies, Inc.
 Attn: Cesar Santos
 2965 Ramco Street
 West Sacramento, CA 95691

Lab ID : CH 1974791
 Customer : 7-12929

Laboratory Report

Introduction: This report package contains total of 14 pages divided into 3 sections:

Case Narrative (2 pages) : An overview of the work performed at FGL.
 Sample Results (3 pages) : Results for each sample submitted.
 Quality Control (9 pages) : Supporting Quality Control (QC) results.

Case Narrative

This Case Narrative pertains to the following samples:

Sample Description	Date Sampled	Date Received	FGL Lab ID #	Matrix
Well	06/21/2019	06/21/2019	CH 1974791-001	DW

Sampling and Receipt Information: The sample was performed by FGL using the following methods (where applicable):

Bacteriological Sampling - SOP:200900141
 Grab sampling for liquids - SOP:200900137
 Composite sampling for liquids - SOP:200900139
 Grab sampling for solids - SOP:200900142
 Composite sampling for solids - SOP:200900143

All samples were received, prepared and analyzed within the method specified holding times. All samples arrived on ice. All samples were checked for pH if acid or base preservation is required (except for VOAs). For details of sample receipt information, please see the attached Chain of Custody and Condition Upon Receipt Form.

Quality Control: All samples were prepared and analyzed according to the following tables:

Inorganic - Metals QC

200.8	06/25/2019:209551 All analysis quality controls are within established criteria.
	06/26/2019:209596 All analysis quality controls are within established criteria.
	06/25/2019:207116 All preparation quality controls are within established criteria, except: The following note applies to Silver, Cadmium, Lead: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.

July 9, 2019
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Inorganic - Metals QC

245.1	07/09/2019:210252 All analysis quality controls are within established criteria.
	07/09/2019:207668 All preparation quality controls are within established criteria.

Organic QC

524.2	06/29/2019:209841 All analysis quality controls are within established criteria, except: The following note applies to Bromomethane (Methyl Bromide), Trichlorofluoromethane F-11, Chloroethane (Ethyl Chloride), Chloromethane(Methyl Chloride): 360 CCV above Acceptance Range (AR). Samples which were non detect for this analyte were accepted.
	07/01/2019:209881 All analysis quality controls are within established criteria.
	06/29/2019:207385 All preparation quality controls are within established criteria, except: The following note applies to 1,2,3-Trichlorobenzene: 210 The method blank was positive. However, samples reported were either ten times greater than the blank concentration or non detect and accepted. The following note applies to 1,4-Dichlorobenzene, 2-Chlorotoluene, Tetrachloroethylene (PCE), Hexachlorobutadiene: 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery. The following note applies to 1,1,1,2-Tetrachloroethane, 1,1-Dichloropropene, 1,2,3-Trichlorobenzene, 1,2,4-Trichlorobenzene, 1,2,4-Trimethylbenzene, : 435 Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.

Certification:: I certify that this data package is in compliance with ELAP standards, both technically and for completeness, except for any conditions listed above. Release of the data contained in this data package is authorized by the Laboratory Director or his designee, as verified by the following electronic signature.

KD:DMB

Approved By **Kelly A. Dunnahoo, B.S.**



Digitally signed by Kelly A. Dunnahoo, B.S.
Title: Laboratory Director
Date: 2019-07-09



July 9, 2019

Lab ID : CH 1974791-001

Customer ID : 7-12929

American Technologies, Inc.

Attn: Cesar Santos

2965 Ramco Street

West Sacramento, CA 95691

Sampled On : June 21, 2019-14:47

Sampled By : Stephen Semple

Received On : June 21, 2019-15:15

Matrix : Drinking Water

Description : Well

Project : 943 Buschmann Rd., Paradise, CA 95969

Sample Result - Inorganic

Constituent	Result	PQL	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Metals, Total								
Aluminum	ND	10	ug/L	1000	200.8	06/25/19:207116	200.8	06/25/19:209551
Antimony	ND	1	ug/L	6	200.8	06/25/19:207116	200.8	06/25/19:209551
Arsenic	ND	1	ug/L	10	200.8	06/25/19:207116	200.8	06/25/19:209551
Barium	2.3	0.2	ug/L	1000	200.8	06/25/19:207116	200.8	06/25/19:209551
Beryllium	ND	1	ug/L	4	200.8	06/25/19:207116	200.8	06/25/19:209551
Cadmium	ND	0.2	ug/L	5	200.8	06/25/19:207116	200.8	06/26/19:209596
Chromium	1	1	ug/L	50	200.8	06/25/19:207116	200.8	06/25/19:209551
Lead	1.0	0.5	ug/L	15	200.8	06/25/19:207116	200.8	06/25/19:209551
Mercury	ND	0.02	ug/L	2	245.1	07/09/19:207668	245.1	07/09/19:210252
Nickel	ND	1	ug/L	100	200.8	06/25/19:207116	200.8	06/25/19:209551
Selenium	ND	1	ug/L	50	200.8	06/25/19:207116	200.8	06/25/19:209551
Silver	ND	1	ug/L	100 ²	200.8	06/25/19:207116	200.8	06/25/19:209551
Thallium	ND	0.2	ug/L	2	200.8	06/25/19:207116	200.8	06/25/19:209551
Vanadium	9	2	ug/L		200.8	06/25/19:207116	200.8	06/25/19:209551

ND=Non-Detected. PQL=Practical Quantitation Limit. * PQL adjusted for dilution.

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

July 9, 2019

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Customer ID : 7-12929

American Technologies, Inc.

Attn: Cesar Santos
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Sampled On : June 21, 2019-14:47
Sampled By : Stephen Semple
Received On : June 21, 2019-15:15
Matrix : Drinking Water

Description : Well
Project : 943 Buschmann Rd., Paradise, CA 95969

Sample Result - Organic

Constituent	Result	PQL	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
EPA 524.2								
4-Bromofluorobenzene [‡]	88.0	70-130	%		524.2	06/29/19:207385	524.2	07/01/19:209881
1,2-Dichlorobenzene-d4 [‡]	86.1	70-130	%		524.2	06/29/19:207385	524.2	07/01/19:209881
Benzene	ND	0.5	ug/L	1	524.2	06/29/19:207385	524.2	06/29/19:209841
Bromobenzene	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
Bromochloromethane	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
Bromomethane	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
n-Butylbenzene	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
sec-Butylbenzene	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
tert-Butylbenzene	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
Carbon Tetrachloride	ND	0.5	ug/L	0.5	524.2	06/29/19:207385	524.2	06/29/19:209841
Chlorobenzene	ND	0.5	ug/L	70	524.2	06/29/19:207385	524.2	06/29/19:209841
Chloroethane	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
Chloromethane	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
2-Chlorotoluene	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
4-Chlorotoluene	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
Dibromomethane	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
1,2-Dichlorobenzene	ND	0.5	ug/L	600	524.2	06/29/19:207385	524.2	06/29/19:209841
1,3-Dichlorobenzene	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
1,4-Dichlorobenzene	ND	0.5	ug/L	5	524.2	06/29/19:207385	524.2	06/29/19:209841
Dichlorodifluoromethane	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
1,1-Dichloroethane	ND	0.5	ug/L	5	524.2	06/29/19:207385	524.2	06/29/19:209841
1,2-Dichloroethane	ND	0.5	ug/L	0.5	524.2	06/29/19:207385	524.2	06/29/19:209841
1,1-Dichloroethylene	ND	0.5	ug/L	6	524.2	06/29/19:207385	524.2	06/29/19:209841
cis-1,2-Dichloroethylene	ND	0.5	ug/L	6	524.2	06/29/19:207385	524.2	06/29/19:209841
trans-1,2-Dichloroethylene	ND	0.5	ug/L	10	524.2	06/29/19:207385	524.2	06/29/19:209841
1,2-Dichloropropane	ND	0.5	ug/L	5	524.2	06/29/19:207385	524.2	06/29/19:209841
1,3-Dichloropropane	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
Dichloromethane	ND	0.5	ug/L	5	524.2	06/29/19:207385	524.2	06/29/19:209841
2,2-Dichloropropane	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
1,1-Dichloropropene	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
1,3-Dichloropropene (Total)	ND	--	ug/L	0.5	524.2	06/29/19:207385	524.2	06/29/19:209841
cis-1,3-Dichloropropene	ND	0.5	ug/L	0.5	524.2	06/29/19:207385	524.2	06/29/19:209841
trans-1,3-Dichloropropene	ND	0.5	ug/L	0.5	524.2	06/29/19:207385	524.2	06/29/19:209841
Di-isopropyl ether (DIPE)	ND	3	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
Ethyl Benzene	ND	0.5	ug/L	300	524.2	06/29/19:207385	524.2	06/29/19:209841

July 9, 2019
 Description : Well

Lab ID : CH 1974791-001
 Customer ID : 7-12929

Sample Result - Organic

Constituent	Result	PQL	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
EPA 524.2								
Ethyl tert-Butyl Ether (ETBE)	ND	3	ug/L		524.2	06/29/19:207385	524.2	07/01/19:209881
Hexachlorobutadiene	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
Isopropylbenzene	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
p-Isopropyltoluene	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
Methyl tert-Butyl Ether (MTBE)	ND	1	ug/L	13	524.2	06/29/19:207385	524.2	06/29/19:209841
Naphthalene	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
n-Propylbenzene	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
Styrene	ND	0.5	ug/L	100	524.2	06/29/19:207385	524.2	06/29/19:209841
Tert-amyl-methyl Ether (TAME)	ND	3	ug/L		524.2	06/29/19:207385	524.2	07/01/19:209881
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	1	524.2	06/29/19:207385	524.2	06/29/19:209841
Tetrachloroethylene	ND	0.5	ug/L	5	524.2	06/29/19:207385	524.2	07/01/19:209881
Toluene	ND	0.5	ug/L	150	524.2	06/29/19:207385	524.2	06/29/19:209841
1,2,3-Trichlorobenzene	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
1,2,4-Trichlorobenzene	ND	0.5	ug/L	5	524.2	06/29/19:207385	524.2	06/29/19:209841
1,1,1-Trichloroethane	ND	0.5	ug/L	200	524.2	06/29/19:207385	524.2	06/29/19:209841
1,1,2-Trichloroethane	ND	0.5	ug/L	5	524.2	06/29/19:207385	524.2	06/29/19:209841
Trichloroethylene	ND	0.5	ug/L	5	524.2	06/29/19:207385	524.2	07/01/19:209881
Trichlorofluoromethane	ND	0.5	ug/L	150	524.2	06/29/19:207385	524.2	06/29/19:209841
1,1,2-Trichlorotrifluoroethane	ND	0.5	ug/L	1200	524.2	06/29/19:207385	524.2	06/29/19:209841
1,2,4-Trimethylbenzene	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
1,3,5-Trimethylbenzene	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
Vinyl Chloride	ND	0.5	ug/L	0.5	524.2	06/29/19:207385	524.2	06/29/19:209841
Xylenes (Total)	ND	--	ug/L	1750	524.2	06/29/19:207385	524.2	06/29/19:209841
Xylenes m,p	ND	0.5	ug/L	1750	524.2	06/29/19:207385	524.2	06/29/19:209841
Xylenes o	ND	0.5	ug/L	1750	524.2	06/29/19:207385	524.2	06/29/19:209841

ND=Non-Detected. PQL=Practical Quantitation Limit. ‡Surrogate. * PQL adjusted for dilution.
 MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

July 9, 2019
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Lab ID : CH 1974791
Customer : 7-12929

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Organic	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	25.3 %	12-178	
1,1,1,2-Tetrachloroethane	524.2	06/29/19:209841VRG	MSD	ug/L	10.00	48.1 %	12-178	
			MSRPD	ug/L	10.00	62.0%	≤39	435
1,1,1-Trichloroethane(TCA)	524.2	06/29/19:207385VRG (VI 1943263-001)	CCV	ug/L	9.890	101 %	70-130	
			Blank	ug/L		ND	<0.5	
1,1,1,2-Tetrachloroethane	524.2	06/29/19:207385VRG (VI 1943263-001)	MS	ug/L	10.00	34.4 %	9-176	
			MSD	ug/L	10.00	40.0 %	9-176	
1,1,2-Trichloroethane	524.2	06/29/19:209841VRG	MSRPD	ug/L	10.00	15.1%	≤33	
			CCV	ug/L	9.945	94.8 %	70-130	
1,1,2-Trichloroethane	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	83.6 %	23-180	
1,1,2-Trichloroethane	524.2	06/29/19:207385VRG (VI 1943263-001)	MSD	ug/L	10.00	94.0 %	23-180	
			MSRPD	ug/L	10.00	11.6%	≤34	
1,1,2-Trichloroethane	524.2	06/29/19:209841VRG	CCV	ug/L	9.830	89.6 %	70-130	
			Blank	ug/L		ND	<0.5	
1,1-Dichloroethane	524.2	06/29/19:207385VRG (VI 1943263-001)	MS	ug/L	10.00	78.0 %	25-173	
			MSD	ug/L	10.00	89.4 %	25-173	
1,1-Dichloroethane	524.2	06/29/19:209841VRG	MSRPD	ug/L	10.00	13.7%	≤29	
			CCV	ug/L	9.860	93.2 %	70-130	
1,1-Dichloroethane	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	65.3 %	15-161	
1,1-Dichloroethane	524.2	06/29/19:207385VRG (VI 1943263-001)	MSD	ug/L	10.00	67.9 %	15-161	
			MSRPD	ug/L	10.00	3.9%	≤36	
1,1-Dichloroethane	524.2	06/29/19:209841VRG	CCV	ug/L	10.02	92.1 %	70-130	
			Blank	ug/L		ND	<0.5	
1,1-Dichloroethylene	524.2	06/29/19:207385VRG (VI 1943263-001)	MS	ug/L	10.00	35.2 %	0-162	
			MSD	ug/L	10.00	40.7 %	0-162	
1,1-Dichloroethylene	524.2	06/29/19:209841VRG	MSRPD	ug/L	10.00	14.7%	≤33	
			CCV	ug/L	9.920	78.5 %	70-130	
1,1-Dichloropropene	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	18.3 %	0-171	
1,1-Dichloropropene	524.2	06/29/19:207385VRG (VI 1943263-001)	MSD	ug/L	10.00	25.0 %	0-171	
			MSRPD	ug/L	10.00	0.67	≤0.5	435
1,2,3-Trichlorobenzene	524.2	06/29/19:209841VRG	CCV	ug/L	10.00	89.0 %	70-130	
			Blank	ug/L		0.731	0.5	210
1,2,3-Trichlorobenzene	524.2	06/29/19:207385VRG (VI 1943263-001)	MS	ug/L	10.00	21.4 %	14-181	
			MSD	ug/L	10.00	27.6 %	14-181	
1,2,3-Trichlorobenzene	524.2	06/29/19:207385VRG (VI 1943263-001)	MSRPD	ug/L	10.00	0.62	≤0.5	435
			CCV	ug/L	9.975	119 %	70-130	
1,2,4-Trichlorobenzene	524.2	06/29/19:209841VRG	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	17.1 %	10-180	
1,2,4-Trichlorobenzene	524.2	06/29/19:207385VRG (VI 1943263-001)	MSD	ug/L	10.00	23.2 %	10-180	
			MSRPD	ug/L	10.00	0.61	≤0.5	435
1,2,4-Trichlorobenzene	524.2	06/29/19:209841VRG	CCV	ug/L	10.01	102 %	70-130	
			Blank	ug/L		ND	<0.5	
1,2,4-Trimethylbenzene	524.2	06/29/19:207385VRG (VI 1943263-001)	MS	ug/L	10.00	13.0 %	2-192	
			MSD	ug/L	10.00	18.7 %	2-192	
1,2,4-Trimethylbenzene	524.2	06/29/19:207385VRG (VI 1943263-001)	MSRPD	ug/L	10.00	0.57	≤0.5	435
			CCV	ug/L	9.825	93.2 %	70-130	
1,2-Dichlorobenzene	524.2	06/29/19:209841VRG	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	23.0 %	13-191	
1,2-Dichlorobenzene	524.2	06/29/19:207385VRG (VI 1943263-001)	MSD	ug/L	10.00	31.8 %	13-191	
			MSRPD	ug/L	10.00	32.5%	≤35	
1,2-Dichlorobenzene	524.2	06/29/19:209841VRG	CCV	ug/L	9.890	100 %	70-130	

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Organic	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank	ug/L	10.04	105 %	70-130	
			MS	ug/L	10.04	89.5 %	70-130	
1,2-Dichlorobenzene-d4	524.2	06/29/19:207385VRG (VI 1943263-001)	MSD	ug/L	10.04	94.5 %	70-130	
			MSRPD	ug/L	10.00	5.5%	≤20	
			CCV	ug/L	10.00	104 %	70-130	
			524.2	07/01/19:209881VRG	CCV	ug/L	10.00	104 %
1,2-Dichloroethane (EDC)	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank	ug/L	10.00	ND	<0.5	
			MS	ug/L	10.00	81.2 %	18-162	
			MSD	ug/L	10.00	86.7 %	18-162	
			MSRPD	ug/L	10.00	6.5%	≤33	
1,2-Dichloropropane	524.2	06/29/19:209841VRG	CCV	ug/L	9.980	104 %	70-130	
			524.2	06/29/19:207385VRG (VI 1943263-001)	Blank	ug/L	10.00	ND
1,2-Dichloropropane	524.2	06/29/19:207385VRG (VI 1943263-001)	MS	ug/L	10.00	65.3 %	10-163	
			MSD	ug/L	10.00	72.6 %	10-163	
			MSRPD	ug/L	10.00	10.5%	≤34	
			524.2	06/29/19:209841VRG	CCV	ug/L	9.950	102 %
1,3,5-Trimethylbenzene	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank	ug/L	10.00	ND	<0.5	
			MS	ug/L	10.00	12.0 %	0-210	
			MSD	ug/L	10.00	17.5 %	0-210	
			MSRPD	ug/L	10.00	0.54	≤0.5	435
1,3-Dichlorobenzene	524.2	06/29/19:209841VRG	CCV	ug/L	9.815	94.4 %	70-130	
			524.2	06/29/19:207385VRG (VI 1943263-001)	Blank	ug/L	10.00	ND
1,3-Dichlorobenzene	524.2	06/29/19:207385VRG (VI 1943263-001)	MS	ug/L	10.00	17.3 %	17-182	
			MSD	ug/L	10.00	25.0 %	17-182	
			MSRPD	ug/L	10.00	0.77	≤0.5	435
			524.2	06/29/19:209841VRG	CCV	ug/L	10.00	96.2 %
1,3-Dichloropropane	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank	ug/L	10.00	ND	<0.5	
			MS	ug/L	10.00	76.6 %	0-178	
			MSD	ug/L	10.00	87.8 %	0-178	
			MSRPD	ug/L	10.00	13.6%	≤29	
1,3-Dichloropropane	524.2	06/29/19:209841VRG	CCV	ug/L	10.00	96.5 %	70-130	
			524.2	06/29/19:207385VRG (VI 1943263-001)	Blank	ug/L	10.00	ND
1,4-Dichlorobenzene	524.2	06/29/19:207385VRG (VI 1943263-001)	MS	ug/L	10.00	16.8 %	19-183	435
			MSD	ug/L	10.00	25.2 %	19-183	
			MSRPD	ug/L	10.00	0.84	≤0.5	435
			524.2	06/29/19:209841VRG	CCV	ug/L	10.00	104 %
2,2-Dichloropropane	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank	ug/L	10.00	ND	<0.5	
			MS	ug/L	10.00	13.7 %	0-288	
			MSD	ug/L	10.00	14.8 %	0-288	
			MSRPD	ug/L	10.00	0.10	≤0.5	
2,2-Dichloropropane	524.2	06/29/19:209841VRG	CCV	ug/L	10.00	86.2 %	70-130	
			524.2	06/29/19:207385VRG (VI 1943263-001)	Blank	ug/L	10.00	ND
2-Chlorotoluene	524.2	06/29/19:207385VRG (VI 1943263-001)	MS	ug/L	10.00	14.2 %	17-180	435
			MSD	ug/L	10.00	21.4 %	17-180	
			MSRPD	ug/L	10.00	0.71	≤0.5	435
			524.2	06/29/19:209841VRG	CCV	ug/L	10.00	99.0 %
4-Bromofluorobenzene	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank	ug/L	10.05	116 %	70-130	
			MS	ug/L	10.05	102 %	70-130	
			MSD	ug/L	10.05	112 %	70-130	
			MSRPD	ug/L	10.00	8.7%	≤30	
4-Bromofluorobenzene (BFB)	524.2	07/01/19:209881VRG	CCV	ug/L	10.00	119 %	70-130	
4-Chlorotoluene	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank	ug/L	10.00	ND	<0.5	
			MS	ug/L	10.00	13.3 %	11-177	
			MSD	ug/L	10.00	20.2 %	11-177	
			MSRPD	ug/L	10.00	0.69	≤0.5	435

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Organic								
4-Chlorotoluene	524.2	06/29/19:209841VRG	CCV	ug/L	9.825	99.7 %	70-130	
Benzene	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	45.4 %	12-158	
			MSD	ug/L	10.00	52.0 %	12-158	
			MSRPD	ug/L	10.00	13.4%	≤36	
	524.2	06/29/19:209841VRG	CCV	ug/L	10.00	104 %	70-130	
Bromobenzene	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	26.6 %	23-177	
			MSD	ug/L	10.00	36.0 %	23-177	
			MSRPD	ug/L	10.00	29.8%	≤40	
	524.2	06/29/19:209841VRG	CCV	ug/L	10.01	93.8 %	70-130	
Bromochloromethane	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	80.8 %	4-186	
			MSD	ug/L	10.00	84.6 %	4-186	
			MSRPD	ug/L	10.00	4.6%	≤30	
	524.2	06/29/19:209841VRG	CCV	ug/L	9.925	113 %	70-130	
Bromomethane (Methyl Bromide)	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	105 %	0-196	
			MSD	ug/L	10.00	113 %	0-196	
			MSRPD	ug/L	10.00	7.9%	≤40	
	524.2	06/29/19:209841VRG	CCV	ug/L	10.00	170 %	70-130	360
Carbon Tetrachloride	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	20.2 %	5-175	
			MSD	ug/L	10.00	26.7 %	5-175	
			MSRPD	ug/L	10.00	0.64	≤0.5	435
	524.2	06/29/19:209841VRG	CCV	ug/L	10.01	113 %	70-130	
Chlorobenzene	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	28.2 %	14-175	
			MSD	ug/L	10.00	37.5 %	14-175	
			MSRPD	ug/L	10.00	28.1%	≤35	
	524.2	06/29/19:209841VRG	CCV	ug/L	9.975	98.7 %	70-130	
Chloroethane (Ethyl Chloride)	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	94.1 %	0-184	
			MSD	ug/L	10.00	101 %	0-184	
			MSRPD	ug/L	10.00	6.9%	≤40	
	524.2	06/29/19:209841VRG	CCV	ug/L	10.00	133 %	70-130	360
Chloromethane(Methyl Chloride)	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	129 %	0-224	
			MSD	ug/L	10.00	147 %	0-224	
			MSRPD	ug/L	10.00	13.0%	≤39	
	524.2	06/29/19:209841VRG	CCV	ug/L	10.00	163 %	70-130	360
cis-1,2-Dichloroethylene	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	60.4 %	16-172	
			MSD	ug/L	10.00	64.7 %	16-172	
			MSRPD	ug/L	10.00	7.0%	≤34	
	524.2	06/29/19:209841VRG	CCV	ug/L	9.935	94.1 %	70-130	
cis-1,3-Dichloropropene	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	9.550	40.8 %	5-158	
			MSD	ug/L	9.550	45.2 %	5-158	
			MSRPD	ug/L	10.00	10.3%	≤38	
	524.2	06/29/19:209841VRG	CCV	ug/L	10.18	93.7 %	70-130	
Dibromomethane	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	79.0 %	11-168	
			MSD	ug/L	10.00	85.8 %	11-168	

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Organic								
Dibromomethane	524.2	06/29/19:207385VRG	MSRPD	ug/L	10.00	8.3%	≤28	
	524.2	06/29/19:209841VRG	CCV	ug/L	9.915	94.3 %	70-130	
Dichlorodifluoromethane	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank MS MSD MSRPD	ug/L ug/L ug/L ug/L	10.00 10.00 10.00	ND 27.2 % 35.4 % 26.4%	<0.5 0-334 0-334 ≤39	
	524.2	06/29/19:209841VRG	CCV	ug/L	10.00	117 %	70-130	
Dichloromethane	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank MS MSD MSRPD	ug/L ug/L ug/L ug/L	10.00 10.00 10.00	ND 95.0 % 93.3 % 1.8%	<0.5 20-157 20-157 ≤36	
Ethyl tert-Butyl Ether	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank MS MSD MSRPD	ug/L ug/L ug/L ug/L	10.00 10.00 10.00	ND 97.6 % 97.1 % 0.054	<3 11-165 11-165 ≤3	
	524.2	07/01/19:209881VRG	CCV	ug/L	10.00	99.7 %	70-130	
Ethylbenzene	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank MS MSD MSRPD	ug/L ug/L ug/L ug/L	10.00 10.00 10.00	ND 16.2 % 22.4 % 0.63	<0.5 9-174 9-174 ≤0.5	435
	524.2	06/29/19:209841VRG	CCV	ug/L	9.995	92.0 %	70-130	
Freon-11	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank MS MSD MSRPD	ug/L ug/L ug/L ug/L	10.00 10.00 10.00	ND 34.4 % 44.2 % 24.9%	<0.5 0-232 0-232 ≤35	
Hexachlorobutadiene	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank MS MSD MSRPD	ug/L ug/L ug/L ug/L	10.00 10.00 10.00	ND 9.2 % 13.1 % 0.38	<0.5 14-200 14-200 ≤0.5	435 435
	524.2	06/29/19:209841VRG	CCV	ug/L	9.800	91.2 %	70-130	
Isopropyl Ether	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank MS MSD MSRPD	ug/L ug/L ug/L ug/L	10.00 10.00 10.00	ND 98.2 % 99.8 % 0.16	<3 8-165 8-165 ≤3	
	524.2	06/29/19:209841VRG	CCV	ug/L	10.00	101 %	70-130	
Isopropylbenzene	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank MS MSD MSRPD	ug/L ug/L ug/L ug/L	10.00 10.00 10.00	ND 13.6 % 18.9 % 0.53	<0.5 4-159 4-159 ≤0.5	435
	524.2	06/29/19:209841VRG	CCV	ug/L	10.00	92.9 %	70-130	
Methyl tert-Butyl Ether	524.2	06/29/19:209841VRG	CCV	ug/L	10.00	74.7 %	70-130	
Methyl tert-Butyl Ether (MTBE)	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank MS MSD MSRPD	ug/L ug/L ug/L ug/L	10.00 10.00 10.00	ND 98.5 % 95.7 % 2.9%	<1.0 11-168 11-168 ≤29	
Methylene Chloride	524.2	06/29/19:209841VRG	CCV	ug/L	10.02	140 %	70-130	360
Naphthalene	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank MS MSD MSRPD	ug/L ug/L ug/L ug/L	10.00 10.00 10.00	ND 37.8 % 44.6 % 16.6%	<0.5 0-189 0-189 ≤32	
	524.2	06/29/19:209841VRG	CCV	ug/L	9.860	113 %	70-130	
n-Butylbenzene	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank MS MSD	ug/L ug/L ug/L	10.00 10.00	ND 9.5 % 13.3 %	<0.5 4-186 4-186	

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Organic								
n-Butylbenzene	524.2	06/29/19:207385VRG	MSRPD	ug/L	10.00	0.38	≤0.5	
	524.2	06/29/19:209841VRG	CCV	ug/L	9.920	90.2 %	70-130	
n-Propylbenzene	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	10.0 %	0-174	
			MSD	ug/L	10.00	15.1 %	0-174	
			MSRPD	ug/L	10.00	0.51	≤0.5	435
524.2	06/29/19:209841VRG	CCV	ug/L	10.00	93.7 %	70-130		
p-Isopropyltoluene	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	11.0 %	0-193	
			MSD	ug/L	10.00	15.6 %	0-193	
			MSRPD	ug/L	10.00	0.45	≤0.5	
524.2	06/29/19:209841VRG	CCV	ug/L	10.01	89.2 %	70-130		
sec-Butylbenzene	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	10.0 %	0-177	
			MSD	ug/L	10.00	14.6 %	0-177	
			MSRPD	ug/L	10.00	0.46	≤0.5	
524.2	06/29/19:209841VRG	CCV	ug/L	10.00	91.1 %	70-130		
Styrene	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	20.4 %	0-198	
			MSD	ug/L	10.00	25.2 %	0-198	
			MSRPD	ug/L	10.00	0.48	≤0.5	
524.2	06/29/19:209841VRG	CCV	ug/L	10.01	95.0 %	70-130		
TAME	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank	ug/L		ND	<3	
			MS	ug/L	10.00	94.7 %	15-162	
			MSD	ug/L	10.00	97.0 %	15-162	
			MSRPD	ug/L	10.00	0.22	≤3	
524.2	07/01/19:209881VRG	CCV	ug/L	10.00	77.9 %	70-130		
tert-Butylbenzene	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	14.4 %	9-179	
			MSD	ug/L	10.00	19.3 %	9-179	
			MSRPD	ug/L	10.00	0.49	≤0.5	
524.2	06/29/19:209841VRG	CCV	ug/L	10.01	95.0 %	30-130		
Tetrachloroethylene (PCE)	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	12.4 %	14-186	435
			MSD	ug/L	10.00	19.0 %	14-186	
			MSRPD	ug/L	10.00	0.66	≤0.5	435
524.2	07/01/19:209881VRG	CCV	ug/L	9.955	94.3 %	70-130		
Toluene	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	27.9 %	3-174	
			MSD	ug/L	10.00	35.2 %	3-174	
			MSRPD	ug/L	10.00	23.1 %	≤37	
524.2	06/29/19:209841VRG	CCV	ug/L	10.00	93.3 %	30-130		
trans-1,2-Dichloroethylene	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	38.8 %	5-165	
			MSD	ug/L	10.00	43.9 %	5-165	
			MSRPD	ug/L	10.00	12.4 %	≤40	
524.2	06/29/19:209841VRG	CCV	ug/L	10.02	77.8 %	70-130		
trans-1,3-Dichloropropene	524.2	06/29/19:207385VRG (VI 1943263-001)	Blank	ug/L		ND	<0.5	
			MS	ug/L	9.200	49.5 %	0-169	
			MSD	ug/L	9.200	54.2 %	0-169	
			MSRPD	ug/L	10.00	9.1 %	≤31	
524.2	06/29/19:209841VRG	CCV	ug/L	9.820	97.1 %	70-130		
Trichloroethylene (TCE)	524.2	06/29/19:207385VRG	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	23.0 %	11-167	

Quality Control - Organic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Organic Trichloroethylene (TCE)	524.2	(VI 1943263-001)	MSD	ug/L	10.00	29.5 %	11-167	
			MSRPD	ug/L	10.00	23.3%	≤35	
	524.2	07/01/19:209881VRG	CCV	ug/L	10.00	85.0 %	70-130	
Trichlorofluoromethane F-11	524.2	06/29/19:209841VRG	CCV	ug/L	10.00	133 %	70-130	360
Trichlorotrifluoroethane F-113	524.2	06/29/19:207385VRG	Blank	ug/L		ND	<0.5	
	524.2	06/29/19:209841VRG	CCV	ug/L	10.00	78.6 %	70-130	
Vinyl Chloride	524.2	06/29/19:207385VRG	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	76.0 %	0-208	
		(VI 1943263-001)	MSD	ug/L	10.00	92.1 %	0-208	
			MSRPD	ug/L	10.00	19.2%	≤40	
	524.2	06/29/19:209841VRG	CCV	ug/L	10.00	128 %	30-130	
Xylenes m,p	524.2	06/29/19:207385VRG	Blank	ug/L		ND	<0.5	
			MS	ug/L	20.00	15.7 %	0-193	
		(VI 1943263-001)	MSD	ug/L	20.00	21.9 %	0-193	
			MSRPD	ug/L	10.00	32.9%	≤37	
	524.2	06/29/19:209841VRG	CCV	ug/L	19.99	93.0 %	70-130	
Xylenes o	524.2	06/29/19:207385VRG	Blank	ug/L		ND	<0.5	
			MS	ug/L	10.00	21.8 %	0-188	
		(VI 1943263-001)	MSD	ug/L	10.00	27.3 %	0-188	
			MSRPD	ug/L	10.00	0.54	≤0.5	435
	524.2	06/29/19:209841VRG	CCV	ug/L	9.855	97.1 %	70-130	
Definition								
CCV	: Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria.							
Blank	: Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.							
MS	: Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.							
MSD	: Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.							
MSRPD	: MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.							
ND	: Non-detect - Result was below the DQO listed for the analyte.							
DQO	: Data Quality Objective - This is the criteria against which the quality control data is compared.							
Explanation								
210	: The method blank was positive. However, samples reported were either ten times greater than the blank concentration or non detect and accepted.							
360	: CCV above Acceptance Range (AR). Samples which were non detect for this analyte were accepted.							
435	: Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.							

Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals Aluminum	200.8	(VI 1942261-001)	MS	ug/L	5.000	82.9 %	75-125	
			MSD	ug/L	5.000	77.0 %	75-125	
			MSRPD	ug/L	5.000	0.30	≤10	
	200.8	06/25/19:209551AC	ICV	ppb	50.00	96.5 %	90-110	
			ICB	ppb		0.08	10	
			CCV	ppb	50.00	106 %	90-110	
			CCB	ppb		0.1	10	
Antimony	200.8	(VI 1942261-001)	MS	ug/L	5.000	110 %	75-125	
			MSD	ug/L	5.000	111 %	75-125	
			MSRPD	ug/L	5.000	0.9%	≤20	
	200.8	06/25/19:209551AC	ICV	ppb	50.00	97.8 %	90-110	
			ICB	ppb		0.03	1	
			CCV	ppb	50.00	93.9 %	90-110	
			CCB	ppb		0.07	1	
Arsenic	200.8	(VI 1942261-001)	MS	ug/L	5.000	114 %	75-125	
			MSD	ug/L	5.000	116 %	75-125	
			MSRPD	ug/L	5.000	1.9%	≤20	
	200.8	06/25/19:209551AC	ICV	ppb	50.00	100 %	90-110	
			ICB	ppb		0.02	1	
			CCV	ppb	50.00	96.6 %	90-110	
			CCB	ppb		0.03	1	
Barium	200.8	(VI 1942261-001)	MS	ug/L	5.000	109 %	75-125	
			MSD	ug/L	5.000	110 %	75-125	
			MSRPD	ug/L	5.000	0.1%	≤20	
	200.8	06/25/19:209551AC	ICV	ppb	50.00	99.0 %	90-110	
			ICB	ppb		-0.026	0.2	
			CCV	ppb	50.00	95.2 %	90-110	
			CCB	ppb		-0.033	0.2	
Beryllium	200.8	(VI 1942261-001)	MS	ug/L	5.000	84.7 %	75-125	
			MSD	ug/L	5.000	85.6 %	75-125	
			MSRPD	ug/L	5.000	0.042	≤1	
	200.8	06/25/19:209551AC	ICV	ppb	50.00	95.0 %	90-110	
			ICB	ppb		0.021	0.2	
			CCV	ppb	50.00	96.2 %	90-110	
			CCB	ppb		-0.003	0.2	
Cadmium	200.8	(VI 1942261-001)	MS	ug/L	5.000	71.8 %	75-125	435
			MSD	ug/L	5.000	72.2 %	75-125	435
			MSRPD	ug/L	5.000	0.6%	≤20	
	200.8	06/26/19:209596AC	CCV	ppb	50.00	100 %	90-110	
			CCB	ppb		0.000	0.2	
			CCV	ppb	50.00	102 %	90-110	
			CCB	ppb		-0.001	0.2	
Chromium	200.8	(VI 1942261-001)	MS	ug/L	5.000	82.1 %	75-125	
			MSD	ug/L	5.000	83.3 %	75-125	
			MSRPD	ug/L	5.000	1.1%	≤20	
	200.8	06/25/19:209551AC	ICV	ppb	50.00	94.7 %	90-110	
			ICB	ppb		-0.05	1	
			CCV	ppb	50.00	94.2 %	90-110	
			CCB	ppb		-0.03	1	
Lead	200.8	(VI 1942261-001)	MS	ug/L	5.000	55.5 %	75-125	435
			MSD	ug/L	5.000	56.8 %	75-125	435
			MSRPD	ug/L	5.000	2.4%	≤20	
200.8	06/25/19:209551AC	ICV	ppb	50.00	96.1 %	90-110		
			ICB	ppb		0.000	0.5	
			CCV	ppb	50.00	100 %	90-110	

Quality Control - Inorganic

Constituent	Method	Date/ID	Type	Units	Conc.	QC Data	DQO	Note
Metals								
Lead	200.8	06/25/19:209551AC	CCB	ppb		-0.002	0.5	
Nickel	200.8	(VI 1942261-001)	MS	ug/L	5.000	103 %	75-125	
			MSD	ug/L	5.000	107 %	75-125	
			MSRPD	ug/L	5.000	3.0%	≤20	
	200.8	06/25/19:209551AC	ICV	ppb	50.00	99.2 %	90-110	
			ICB	ppb		-0.009	1	
			CCV	ppb	50.00	96.4 %	90-110	
			CCB	ppb		-0.004	1	
Selenium	200.8	(VI 1942261-001)	MS	ug/L	5.000	123 %	75-125	
			MSD	ug/L	5.000	125 %	75-125	
			MSRPD	ug/L	5.000	2.1%	≤20	
	200.8	06/25/19:209551AC	ICV	ppb	50.00	103 %	90-110	
			ICB	ppb		0.04	1	
			CCV	ppb	50.00	97.4 %	90-110	
			CCB	ppb		0.05	1	
Silver	200.8	(VI 1942261-001)	MS	ug/L	5.000	28.5 %	75-125	435
			MSD	ug/L	5.000	42.9 %	75-125	435
			MSRPD	ug/L	5.000	0.72	≤1	
	200.8	06/25/19:209551AC	ICV	ppb	50.00	103 %	90-110	
			ICB	ppb		0.003	1	
			CCV	ppb	50.00	95.9 %	90-110	
			CCB	ppb		0.002	1	
Thallium	200.8	(VI 1942261-001)	MS	ug/L	5.000	106 %	75-125	
			MSD	ug/L	5.000	107 %	75-125	
			MSRPD	ug/L	5.000	1.1%	≤20	
	200.8	06/25/19:209551AC	ICV	ppb	50.00	99.8 %	90-110	
			ICB	ppb		0.001	0.2	
			CCV	ppb	50.00	106 %	90-110	
			CCB	ppb		0.000	0.2	
Vanadium	200.8	(VI 1942261-001)	MS	ug/L	5.000	98.1 %	75-125	
			MSD	ug/L	5.000	101 %	75-125	
			MSRPD	ug/L	5.000	0.13	≤2	
	200.8	06/25/19:209551AC	ICV	ppb	50.00	92.8 %	90-110	
			ICB	ppb		-0.02	2	
			CCV	ppb	50.00	92.5 %	90-110	
			CCB	ppb		-0.01	2	
Mercury	245.1	07/09/19:207668AC	Blank	ug/L		ND	<0.02	
			LCS	ug/L	0.2000	97.2 %	85-115	
		(CH 1974789-001)	MS	ug/L	0.2000	90.3 %	75-125	
			MSD	ug/L	0.2000	88.2 %	75-125	
			MSRPD	ug/L	0.2000	2.0%	≤20	
	245.1	07/09/19:210252AC	ICV	ppt	200.0	100 %	90-110	
			ICB	ppt		-2.2	20	
			CCV	ppt	200.0	102 %	90-110	
			CCB	ppt		-2.1	20	

Definition

ICV : Initial Calibration Verification - Analyzed to verify the instrument calibration is within criteria.
 ICB : Initial Calibration Blank - Analyzed to verify the instrument baseline is within criteria.
 CCV : Continuing Calibration Verification - Analyzed to verify the instrument calibration is within criteria.
 CCB : Continuing Calibration Blank - Analyzed to verify the instrument baseline is within criteria.
 Blank : Method Blank - Prepared to verify that the preparation process is not contributing contamination to the samples.
 LCS : Laboratory Control Standard/Sample - Prepared to verify that the preparation process is not affecting analyte recovery.
 MS : Matrix Spikes - A random sample is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.

July 9, 2019
American Technologies, Inc.

Lab ID : CH 1974791
Customer : 7-12929

Quality Control - Inorganic

Definition	
MSD	: Matrix Spike Duplicate of MS/MSD pair - A random sample duplicate is spiked with a known amount of analyte. The recoveries are an indication of how that sample matrix affects analyte recovery.
MSRPD	: MS/MSD Relative Percent Difference (RPD) - The MS relative percent difference is an indication of precision for the preparation and analysis.
ND	: Non-detect - Result was below the DQO listed for the analyte.
DQO	: Data Quality Objective - This is the criteria against which the quality control data is compared.
Explanation	
435	: Sample matrix may be affecting this analyte. Data was accepted based on the LCS or CCV recovery.

July 8, 2019

Lab ID : CH 1974791-001

Customer ID : 7-12929

American Technologies, Inc.

Attn: Cesar Santos

2965 Ramco Street

West Sacramento, CA 95691

Sampled On : June 21, 2019-14:47

Sampled By : Stephen Semple

Received On : June 21, 2019-15:15

Matrix : Drinking Water

Description : Well

Project : 943 Buschmann Rd., Paradise, CA 95969

PRELIMINARY Sample Result - Inorganic

Constituent	Result	PQL	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
Metals, Total								
Aluminum	ND	10	ug/L	1000	200.8	06/25/19:207116	200.8	06/25/19:209551
Antimony	ND	1	ug/L	6	200.8	06/25/19:207116	200.8	06/25/19:209551
Arsenic	ND	1	ug/L	10	200.8	06/25/19:207116	200.8	06/25/19:209551
Barium	2.3	0.2	ug/L	1000	200.8	06/25/19:207116	200.8	06/25/19:209551
Beryllium	ND	1	ug/L	4	200.8	06/25/19:207116	200.8	06/25/19:209551
Cadmium	ND	0.2	ug/L	5	200.8	06/25/19:207116	200.8	06/26/19:209596
Chromium	1	1	ug/L	50	200.8	06/25/19:207116	200.8	06/25/19:209551
Lead	1.0	0.5	ug/L	15	200.8	06/25/19:207116	200.8	06/25/19:209551
Nickel	ND	1	ug/L	100	200.8	06/25/19:207116	200.8	06/25/19:209551
Selenium	ND	1	ug/L	50	200.8	06/25/19:207116	200.8	06/25/19:209551
Silver	ND	1	ug/L	100 ²	200.8	06/25/19:207116	200.8	06/25/19:209551
Thallium	ND	0.2	ug/L	2	200.8	06/25/19:207116	200.8	06/25/19:209551
Vanadium	9	2	ug/L		200.8	06/25/19:207116	200.8	06/25/19:209551

ND=Non-Detected. PQL=Practical Quantitation Limit. * PQL adjusted for dilution.

MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

July 8, 2019

Lab ID : CH 1974791-001

Customer ID : 7-12929

American Technologies, Inc.

Attn: Cesar Santos

2965 Ramco Street

West Sacramento, CA 95691

Sampled On : June 21, 2019-14:47

Sampled By : Stephen Semple

Received On : June 21, 2019-15:15

Matrix : Drinking Water

Description : Well

Project : 943 Buschmann Rd., Paradise, CA 95969

Sample Result - Organic

Constituent	Result	PQL	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
EPA 524.2								
4-Bromofluorobenzene [‡]	88.0	70-130	%		524.2	06/29/19:207385	524.2	07/01/19:209881
1,2-Dichlorobenzene-d4 [‡]	86.1	70-130	%		524.2	06/29/19:207385	524.2	07/01/19:209881
Benzene	ND	0.5	ug/L	1	524.2	06/29/19:207385	524.2	06/29/19:209841
Bromobenzene	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
Bromochloromethane	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
Bromomethane	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
n-Butylbenzene	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
sec-Butylbenzene	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
tert-Butylbenzene	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
Carbon Tetrachloride	ND	0.5	ug/L	0.5	524.2	06/29/19:207385	524.2	06/29/19:209841
Chlorobenzene	ND	0.5	ug/L	70	524.2	06/29/19:207385	524.2	06/29/19:209841
Chloroethane	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
Chloromethane	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
2-Chlorotoluene	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
4-Chlorotoluene	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
Dibromomethane	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
1,2-Dichlorobenzene	ND	0.5	ug/L	600	524.2	06/29/19:207385	524.2	06/29/19:209841
1,3-Dichlorobenzene	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
1,4-Dichlorobenzene	ND	0.5	ug/L	5	524.2	06/29/19:207385	524.2	06/29/19:209841
Dichlorodifluoromethane	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
1,1-Dichloroethane	ND	0.5	ug/L	5	524.2	06/29/19:207385	524.2	06/29/19:209841
1,2-Dichloroethane	ND	0.5	ug/L	0.5	524.2	06/29/19:207385	524.2	06/29/19:209841
1,1-Dichloroethylene	ND	0.5	ug/L	6	524.2	06/29/19:207385	524.2	06/29/19:209841
cis-1,2-Dichloroethylene	ND	0.5	ug/L	6	524.2	06/29/19:207385	524.2	06/29/19:209841
trans-1,2-Dichloroethylene	ND	0.5	ug/L	10	524.2	06/29/19:207385	524.2	06/29/19:209841
1,2-Dichloropropane	ND	0.5	ug/L	5	524.2	06/29/19:207385	524.2	06/29/19:209841
1,3-Dichloropropane	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
Dichloromethane	ND	0.5	ug/L	5	524.2	06/29/19:207385	524.2	06/29/19:209841
2,2-Dichloropropane	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
1,1-Dichloropropene	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
1,3-Dichloropropene (Total)	ND	--	ug/L	0.5	524.2	06/29/19:207385	524.2	06/29/19:209841
cis-1,3-Dichloropropene	ND	0.5	ug/L	0.5	524.2	06/29/19:207385	524.2	06/29/19:209841
trans-1,3-Dichloropropene	ND	0.5	ug/L	0.5	524.2	06/29/19:207385	524.2	06/29/19:209841
Di-isopropyl ether (DIPE)	ND	3	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
Ethyl Benzene	ND	0.5	ug/L	300	524.2	06/29/19:207385	524.2	06/29/19:209841

July 8, 2019
Description : Well

Lab ID : CH 1974791-001
Customer ID : 7-12929

Sample Result - Organic

Constituent	Result	PQL	Units	MCL/AL	Sample Preparation		Sample Analysis	
					Method	Date/ID	Method	Date/ID
EPA 524.2								
Ethyl tert-Butyl Ether (ETBE)	ND	3	ug/L		524.2	06/29/19:207385	524.2	07/01/19:209881
Hexachlorobutadiene	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
Isopropylbenzene	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
p-Isopropyltoluene	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
Methyl tert-Butyl Ether (MTBE)	ND	1	ug/L	13	524.2	06/29/19:207385	524.2	06/29/19:209841
Naphthalene	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
n-Propylbenzene	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
Styrene	ND	0.5	ug/L	100	524.2	06/29/19:207385	524.2	06/29/19:209841
Tert-amyl-methyl Ether (TAME)	ND	3	ug/L		524.2	06/29/19:207385	524.2	07/01/19:209881
1,1,1,2-Tetrachloroethane	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
1,1,2,2-Tetrachloroethane	ND	0.5	ug/L	1	524.2	06/29/19:207385	524.2	06/29/19:209841
Tetrachloroethylene	ND	0.5	ug/L	5	524.2	06/29/19:207385	524.2	07/01/19:209881
Toluene	ND	0.5	ug/L	150	524.2	06/29/19:207385	524.2	06/29/19:209841
1,2,3-Trichlorobenzene	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
1,2,4-Trichlorobenzene	ND	0.5	ug/L	5	524.2	06/29/19:207385	524.2	06/29/19:209841
1,1,1-Trichloroethane	ND	0.5	ug/L	200	524.2	06/29/19:207385	524.2	06/29/19:209841
1,1,2-Trichloroethane	ND	0.5	ug/L	5	524.2	06/29/19:207385	524.2	06/29/19:209841
Trichloroethylene	ND	0.5	ug/L	5	524.2	06/29/19:207385	524.2	07/01/19:209881
Trichlorofluoromethane	ND	0.5	ug/L	150	524.2	06/29/19:207385	524.2	06/29/19:209841
1,1,2-Trichlorotrifluoroethane	ND	0.5	ug/L	1200	524.2	06/29/19:207385	524.2	06/29/19:209841
1,2,4-Trimethylbenzene	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
1,3,5-Trimethylbenzene	ND	0.5	ug/L		524.2	06/29/19:207385	524.2	06/29/19:209841
Vinyl Chloride	ND	0.5	ug/L	0.5	524.2	06/29/19:207385	524.2	06/29/19:209841
Xylenes (Total)	ND	--	ug/L	1750	524.2	06/29/19:207385	524.2	06/29/19:209841
Xylenes m,p	ND	0.5	ug/L	1750	524.2	06/29/19:207385	524.2	06/29/19:209841
Xylenes o	ND	0.5	ug/L	1750	524.2	06/29/19:207385	524.2	06/29/19:209841

ND=Non-Detected. PQL=Practical Quantitation Limit. ‡Surrogate. * PQL adjusted for dilution.
MCL = Maximum Contamination Level. 2 - Secondary Standard. 3 - CDPH Notification Level. AL = Regulatory Action Level.

Client: American Technologies, Inc. Customer Number: 7012929 Address: Attn: Cesar Santos 2965 Ramco Street West Sacramento, CA 95691 Phone: (916)388-2440 ext: Fax: Email Address: cesar.santos@atirestoration.com Contact Person: Cesar Santos Project Name: 943 Buschmann Rd., Paradise, CA 95969 Purchase Order Number: Quote Number:				Lab Number: 1974791		TEST DESCRIPTION AND ANALYSES REQUESTED															
Rush Analysis: <input type="checkbox"/> 5 Day <input type="checkbox"/> 4 Day <input type="checkbox"/> 3 Day <input type="checkbox"/> 2 Day <input type="checkbox"/> 24 hour Rush pre-approval by lab (initials): _____ Electronic Data Transfer: <input type="checkbox"/> No <input type="checkbox"/> State <input type="checkbox"/> Client Other: _____				Method of Sampling: Composite (C) Grab (G) Number of Containers Type of Containers: (G) Glass (P) Plastic (V) VOA (M) Metal Tube Potability (P) Non-Potability (NP) Ag Water (AgW) (SW) Surface Water (MW) Monitoring Well (GW) Ground Water (TB) Travel Blank (WW) Waste Water (DW) Drinking Water (S) Soil (SL) Sludge (SLD) Sediment (O) Oil Bact (S) System (SRC) Source (W) Waste Bact. (ROUT) Routine (RPT) Repair (OTH) Other (RPL) Respirometry (LT) Lead Tissue (PET) Petrol Tissue (PFD) Produce Preservatives: (1) NaOH + ZnAc, (2) NaOH, (3) HCl (4) H2SO4, (5) HNO3, (6) Na2B2O7, (7) Other EPA 524.2 - Full List Inorganic Chemicals Coliform P/A Sample Fee \$35.00																	
Sampler(s): Stephen Semple Sampling Fee: _____ Pickup Fee: _____ Compositor Setup Date: _____ Time: _____																					
Samp Num	Location Description	Date Sampled	Time Sampled	Method	Containers	Potability	Water Type	Bact	Bact.	LT	Pres	EPA	Inorg	Colif	Sample Fee						
0	Travel Blank	6/21/19	0000	G	2	V	P	TB													
1	Well	6/21/19	1447	G	4	V,P	P	DW	SRC	OTH	350	X	X	X	X						
Remarks: Total=\$468 paid w/ Visa over the phone. (RWH)				Relinquished Date: Time: S.S. G-21-19 1515			Relinquished Date: Time: R.N.H. 6/21/19 1700			Relinquished Date: Time: GSO											
				Received By: Date: Time: R.N.H. 1 1			Received By: Date: Time: GSO 6/21/19 1			Received By: Date: Time: [Signature] 6/22/19 New											

1974791

Inter-Laboratory Condition Upon Receipt (Attach to COC)

Sample Receipt at: STK CC CH VI

1. Number of ice chests/packages received: 1 Shipping tracking # _____

2. Were samples received in a chilled condition? Temps: ROT / _____ / _____ / _____ / _____
Surface water SWTR bact samples: A sample that has a temperature upon receipt of >10° C, whether iced or not, should be flagged unless the time since sample collection has been less than two hours.

- 3. Do the number of bottles received agree with the COC? Yes No N/A
- 4. Were samples received intact? (i.e. no broken bottles, leaks etc.) Yes No
- 5. VOAs checked for Headspace? Yes No N/A
- 6. Were sample custody seals intact? Yes No N/A
- 7. If required, was sample split for pH analysis? Yes No N/A
- 8. Were all analyses within holding times at time of receipt? Yes No
- 9. Verify sample date, time and sampler name Yes No

Sign and date the COC, place in a ziplock and put in the same ice chest as the samples.

Sample Receipt Review completed by (initials): RNH

Sample Receipt at SP:

1. Were samples received in a chilled condition? Temps: 1 / _____ / _____ / _____ / _____
Acceptable is above freezing to 6E C. If many packages are received at one time check for tests/H.T.'s/rushes/

2. Shipping tracking numbers: 545247940

- 3. Do the number of bottles received agree with the COC? Yes No N/A
- 4. Were samples received intact? (i.e. no broken bottles, leaks etc.) Yes No
- 5. Were sample custody seals intact? Yes No N/A

Sign and date the COC, obtain LIMS sample numbers, select methods/tests and print labels.

Sample Verification, Labeling and Distribution:

- 1. Were all requested analyses understood and acceptable? Yes No
- 2. Did bottle labels correspond with the client's ID's? Yes No
- 3. Were all bottles requiring sample preservation properly preserved? Yes No N/A FGL
[Exception: Oil & Grease, VOA and CrVI verified in lab]
- 4. VOAs checked for Headspace? Yes No N/A
- 5. Have rush or project due dates been checked and accepted? Yes No N/A
- 6. Were all analyses within holding times at time of receipt? Yes No

Attach labels to the containers and include a copy of the COC for lab delivery.

Sample Receipt, Login and Verification completed by (initials): [Signature]

Discrepancy Documentation:

Any items above which are "No" or do not meet specifications (i.e. temps) must be resolved.

1. Person Contacted: _____ Phone Number: _____
Initiated By: _____ Date: _____
Problem: _____
Resolution: _____

2. Person Contacted: _____ Phone Number: _____
Initiated By: _____
Problem: _____
Resolution: _____

(7-12929)

American Technologies, Inc.

CH 1974791

(Please use the back of this sheet for additional comments)