

### **ATTACHMENT 3: LABORATORY ANALYTICAL REPORTS**

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This attachment contains the laboratory analytical reports prepared by BC Laboratories, Inc., of Bakersfield, California.



Date of Report: 06/04/2021

David Conner

Tidewater Inc. - Powell

3761 Attucks Drive

Powell, OH 43065

Client Project: 2Q21

BCL Project: JPL- GW Monitoring Wells-CLP

BCL Work Order: 2115859

Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 5/18/2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda

Client Service Rep

Stuart Buttram

Technical Director

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Chain of Custody Form



Page 1 of 1

**Report To:** Client: Tidewater, Inc.  
**Client:** Tidewater, Inc.  
**Attn:** David Conner  
**Street Address:** 3781 Attucks Drive  
**City:** Powell **State:** OH **Zip:** 43065  
**Phone:** 614 298 - 5715 **Fax:** 614 792 - 2897  
**Email Address:** david.conner@tidelab20.net  
**Submission #:** 21-15859

**Project Description:** JPL-GW Monitoring  
**Project Code:** 2021  
**Sampler (s):** Blaine Tech  
 L. Henderson

**Analysis Requested:**  
 Orthophosphate 365.1  
 1,4 Dioxane 8270SIM  
 NDMA 1625M

Sample #	Sample Description	Date	Time	Matrix*
-1	TR-1-051821	5/18/21	1100	U
-2	MU-23-5	5/18/21	1130	W
-3	MU-23-4	5/18/21	1215	U
-4	MU-23-3	5/18/21	1245	U
-5	DUP-1-2021	5/18/21	1300	U
-6	MU-23-2	5/18/21	1345	U
-7	EB-1-051821	5/18/21	1430	U

**Notes:**  
 CHK BY: DISTRIBUTION  
 G.S. [Signature]  
 SUB OUT [ ]  
 NO SHORT HOLDING TIME  
 (C19) (NO3) (NO) (OP) (SS)  
 (DO) (Cl2) (BOD) (MEAS) (COT)

**Matrix Types:** S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other

**Turnaround # of working days:**  24 Hr Rush  48 Hr Rush  3-5 Day Rush  Normal (10 - Days)

**Lab TAT Approval:** \_\_\_\_\_ \*Additional Charges May Apply

**Comments:**  
 PLEASE NOTATE WHICH SAMPLES TO USE FOR QC (MS/MISO)  
 90% Level III and 10% Level IV data validation required; Level IV Notated on C of C  
 NOTE: ALL ANALYSIS REQUIRED TO HAVE CALIBRATION SUMMARIES (Inform QC)

**Cost Center:**  
 1. Relinquished By: [Signature] Date: 5/18/21 Time: 500  
 2. Relinquished By: [Signature] Date: 5-18-21 Time: 1430  
 3. Relinquished By: [Signature] Date: 5/18/21 Time: 1930

BC Laboratories, Inc. 4100 Atlas Court - Bakersfield CA 93308 (661) 327 - 4911 Fax: (661) 327 - 1918 www.bclabs.com

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 of 1

Submission #: 21-15859

SHIPPING INFORMATION: Fed Ex  UPS  GSO / GLS  Hand Delivery  BC Lab Field Service  Other  (Specify) \_\_\_\_\_

SHIPPING CONTAINER: Ice Chest  None  Box  Other  (Specify) \_\_\_\_\_

FREE LIQUID: YES  NO  W / S

Refrigerant: Ice  Blue Ice  None  Other  Comments: \_\_\_\_\_

Custody Seals: Ice Chest  Containers  None  Comments: \_\_\_\_\_

All samples received? Yes  No  All samples containers intact? Yes  No  Description(s) match COC? Yes  No

COC Received: YES  NO  Emissivity: 0.97 Container: PE Thermometer ID: 208 Date/Time: 5/18/21 1930

Temperature: (A) 1.0 °C / (C) 1.0 °C Analyst Init: PRE

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES		E	E	E	E	E	E			
4oz / 8oz / 16oz PE UNPRES										
2oz Cr <sup>6</sup>		D	D	D	D	D	D			
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz		F	F	F	F	F	F			
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A									
40ml VOA VIAL		ABC	ABC	ABC	ABC	ABC	ABC			
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/808/1A										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: \_\_\_\_\_

Sample Numbering Completed By: PRE Date/Time: 5/18/21 2140 Rev 22 04/13/21

A = Actual / C = Corrected



Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/04/2021 15:27  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

<b>2115859-01</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL GW Monitoring <b>Sampling Location:</b> --- <b>Sampling Point:</b> TB-1-051821 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/18/2021 19:30 <b>Sampling Date:</b> 05/18/2021 11:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-1-051821 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

<b>2115859-02</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL GW Monitoring <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-23-5 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/18/2021 19:30 <b>Sampling Date:</b> 05/18/2021 11:30 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-23-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

<b>2115859-03</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL GW Monitoring <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-23-4 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/18/2021 19:30 <b>Sampling Date:</b> 05/18/2021 12:15 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-23-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/04/2021 15:27  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

<b>2115859-04</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL GW Monitoring <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-23-3 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/18/2021 19:30 <b>Sampling Date:</b> 05/18/2021 12:45 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-23-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

<b>2115859-05</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL GW Monitoring <b>Sampling Location:</b> --- <b>Sampling Point:</b> DUP-1-2Q21 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/18/2021 19:30 <b>Sampling Date:</b> 05/18/2021 13:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): DUP-1-2Q21 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>2115859-06</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL GW Monitoring <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-23-2 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/18/2021 19:30 <b>Sampling Date:</b> 05/18/2021 13:45 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-23-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Powell, OH 43065

**Reported:** 06/04/2021 15:27  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

<b>2115859-07</b>	<b>COC Number:</b>	---	<b>Receive Date:</b>	05/18/2021 19:30
	<b>Project Number:</b>	JPL GW Monitoring	<b>Sampling Date:</b>	05/18/2021 14:30
	<b>Sampling Location:</b>	---	<b>Sample Depth:</b>	---
	<b>Sampling Point:</b>	EB-1-051821	<b>Lab Matrix:</b>	Water
	<b>Sampled By:</b>	BTST	<b>Sample Type:</b>	Water
			<b>Delivery Work Order:</b>	
			<b>Global ID:</b>	0000000000
			<b>Location ID (FieldPoint):</b>	EB-1-051821
			<b>Matrix:</b>	W
			<b>Sample QC Type (SACode):</b>	CS
		<b>Cooler ID:</b>		

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3761 Attucks Drive
Powell, OH 43065

Reported: 06/04/2021 15:27
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2115859-01) and Client Sample Name (JPL GW Monitoring, TB-1-051821, 5/18/2021 11:00:00AM)

Main data table with columns: Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quads, Run #. Lists various organic compounds and their detection results.

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Powell, OH 43065

**Reported:** 06/04/2021 15:27  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2115859-01	<b>Client Sample Name:</b> JPL GW Monitoring, TB-1-051821, 5/18/2021 11:00:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/04/2021 15:27  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2115859-01	<b>Client Sample Name:</b> JPL GW Monitoring, TB-1-051821, 5/18/2021 11:00:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	110	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/21/21 05:00	05/21/21 12:27	MGC	MS-V5	1	B109445	EPA 524.2

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/04/2021 15:27  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2115859-01	<b>Client Sample Name:</b> JPL GW Monitoring, TB-1-051821, 5/18/2021 11:00:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/21/21 05:00	05/21/21	12:27	MGC	MS-V5	1	B109445	EPA 524.2

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/04/2021 15:27  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2115859-02	<b>Client Sample Name:</b> JPL GW Monitoring, MW-23-5, 5/18/2021 11:30:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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3761 Attucks Drive  
Powell, OH 43065

Reported: 06/04/2021 15:27  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2115859-02	<b>Client Sample Name:</b> JPL GW Monitoring, MW-23-5, 5/18/2021 11:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
<b>Styrene</b>	<b>0.18</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/04/2021 15:27  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2115859-02	<b>Client Sample Name:</b> JPL GW Monitoring, MW-23-5, 5/18/2021 11:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	109	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/21/21 05:00	05/21/21 12:51	MGC	MS-V5	1	B109445	EPA 524.2

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**Reported:** 06/04/2021 15:27  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2115859-02	<b>Client Sample Name:</b> JPL GW Monitoring, MW-23-5, 5/18/2021 11:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/21/21 05:00	05/21/21	12:51	MGC	MS-V5	1	B109445	EPA 524.2

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Powell, OH 43065

Reported: 06/04/2021 15:27
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Lists various chemical constituents like Calcium, Magnesium, Sodium, Potassium, Bicarbonate, etc.

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Provides details for each of the 7 runs.

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**Reported:** 06/04/2021 15:27  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2115859-02	<b>Client Sample Name:</b> JPL GW Monitoring, MW-23-5, 5/18/2021 11:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00024	mg/L	0.00020	0.000020	EPA-218.6	0.000029		1
Total Recoverable Arsenic	1.8	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	1.7	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	92	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	0.55	ug/L	1.0	0.10	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	05/24/21 23:00	05/25/21 08:32		SAV	IC-4	1	B109905	No Prep
2	EPA-200.8	05/28/21 08:15	05/29/21 02:12		KHS	PE-EL4	1	B110352	EPA 200.2
3	EPA-200.7	05/31/21 08:05	06/01/21 14:20		JRG	PE-OP4	1	B110435	EPA 200.2

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Reported: 06/04/2021 15:27  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2115859-03	<b>Client Sample Name:</b> JPL GW Monitoring, MW-23-4, 5/18/2021 12:15:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 06/04/2021 15:27  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2115859-03	<b>Client Sample Name:</b> JPL GW Monitoring, MW-23-4, 5/18/2021 12:15:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Powell, OH 43065

**Reported:** 06/04/2021 15:27  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2115859-03	<b>Client Sample Name:</b> JPL GW Monitoring, MW-23-4, 5/18/2021 12:15:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/21/21 05:00	05/21/21 13:15	MGC	MS-V5	1	B109445	EPA 524.2

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/04/2021 15:27  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2115859-03	<b>Client Sample Name:</b> JPL GW Monitoring, MW-23-4, 5/18/2021 12:15:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/21/21 05:00	05/21/21	13:15	MGC	MS-V5	1	B109445	EPA 524.2

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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 06/04/2021 15:27
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with 9 columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with 10 columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows correspond to runs 1 through 7.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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**Reported:** 06/04/2021 15:27  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2115859-03	<b>Client Sample Name:</b> JPL GW Monitoring, MW-23-4, 5/18/2021 12:15:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0026	mg/L	0.00020	0.000020	EPA-218.6	0.000029		1
Total Recoverable Arsenic	1.1	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	3.2	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	46	ug/L	50	30	EPA-200.7	ND	J	3
Total Recoverable Lead	0.11	ug/L	1.0	0.10	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-218.6	05/24/21 23:00	05/25/21 09:11	SAV	IC-4	1	B109905	No Prep
2	EPA-200.8	05/27/21 00:10	05/28/21 09:02	KHS	PE-EL2	1	B110311	EPA 200.2
3	EPA-200.7	05/31/21 08:05	06/01/21 14:27	JRG	PE-OP4	1	B110435	EPA 200.2

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Reported: 06/04/2021 15:27  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2115859-04	<b>Client Sample Name:</b> JPL GW Monitoring, MW-23-3, 5/18/2021 12:45:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

**Reported:** 06/04/2021 15:27  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2115859-04	<b>Client Sample Name:</b> JPL GW Monitoring, MW-23-3, 5/18/2021 12:45:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/04/2021 15:27  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2115859-04	<b>Client Sample Name:</b> JPL GW Monitoring, MW-23-3, 5/18/2021 12:45:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/21/21 05:00	05/21/21 13:39	MGC	MS-V5	1	B109445	EPA 524.2

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**Reported:** 06/04/2021 15:27  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2115859-04	<b>Client Sample Name:</b> JPL GW Monitoring, MW-23-3, 5/18/2021 12:45:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/21/21 05:00	05/21/21	13:39	MGC	MS-V5	1	B109445	EPA 524.2

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Powell, OH 43065

Reported: 06/04/2021 15:27
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows correspond to runs 1 through 7.

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**Reported:** 06/04/2021 15:27  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2115859-04	<b>Client Sample Name:</b> JPL GW Monitoring, MW-23-3, 5/18/2021 12:45:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0030	mg/L	0.00020	0.000020	EPA-218.6	0.000029		1
Total Recoverable Arsenic	1.1	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	2.7	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	05/24/21 23:00	05/25/21 09:20		SAV	IC-4	1	B109905	No Prep
2	EPA-200.8	05/28/21 08:15	05/29/21 02:31		KHS	PE-EL4	1	B110352	EPA 200.2
3	EPA-200.7	05/31/21 08:05	06/01/21 14:07		JRG	PE-OP4	1	B110435	EPA 200.2

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Reported: 06/04/2021 15:27  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2115859-05	<b>Client Sample Name:</b> JPL GW Monitoring, DUP-1-2Q21, 5/18/2021 1:00:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Chloroform</b>	<b>0.21</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/04/2021 15:27  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2115859-05	<b>Client Sample Name:</b> JPL GW Monitoring, DUP-1-2Q21, 5/18/2021 1:00:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Tetrachloroethene</b>	<b>0.24</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.23</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/04/2021 15:27  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2115859-05	<b>Client Sample Name:</b> JPL GW Monitoring, DUP-1-2Q21, 5/18/2021 1:00:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/21/21 05:00	05/21/21 14:03	MGC	MS-V5	1	B109445	EPA 524.2

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**Reported:** 06/04/2021 15:27  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2115859-05	<b>Client Sample Name:</b> JPL GW Monitoring, DUP-1-2Q21, 5/18/2021 1:00:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/21/21 05:00	05/21/21	14:03	MGC	MS-V5	1	B109445	EPA 524.2

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Powell, OH 43065

Reported: 06/04/2021 15:27
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with 10 columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with 10 columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows correspond to runs 1 through 7.

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**Reported:** 06/04/2021 15:27  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2115859-05	<b>Client Sample Name:</b> JPL GW Monitoring, DUP-1-2Q21, 5/18/2021 1:00:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0030	mg/L	0.00020	0.000020	EPA-218.6	0.000029		1
Total Recoverable Arsenic	1.0	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	2.6	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	33	ug/L	50	30	EPA-200.7	ND	J	3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	05/24/21 23:00	05/25/21 09:30		SAV	IC-4	1	B109905	No Prep
2	EPA-200.8	05/28/21 08:15	05/29/21 02:33		KHS	PE-EL4	1	B110352	EPA 200.2
3	EPA-200.7	06/01/21 10:05	06/01/21 14:53		JRG	PE-OP4	1	B110503	EPA 200.2

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Reported: 06/04/2021 15:27  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2115859-06	<b>Client Sample Name:</b> JPL GW Monitoring, MW-23-2, 5/18/2021 1:45:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Chloroform</b>	<b>0.44</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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3761 Attucks Drive  
Powell, OH 43065

Reported: 06/04/2021 15:27  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2115859-06	<b>Client Sample Name:</b> JPL GW Monitoring, MW-23-2, 5/18/2021 1:45:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Tetrachloroethene</b>	<b>0.34</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.23</b>	<b>EPA-524.2</b>	ND	<b>J</b>	<b>1</b>
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
<b>Trichloroethene</b>	<b>0.80</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.19</b>	<b>EPA-524.2</b>	ND		<b>1</b>
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Powell, OH 43065

**Reported:** 06/04/2021 15:27  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2115859-06	<b>Client Sample Name:</b> JPL GW Monitoring, MW-23-2, 5/18/2021 1:45:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	109	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/21/21 05:00	05/21/21 14:27	MGC	MS-V5	1	B109445	EPA 524.2

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**Reported:** 06/04/2021 15:27  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2115859-06	<b>Client Sample Name:</b> JPL GW Monitoring, MW-23-2, 5/18/2021 1:45:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/21/21 05:00	05/21/21	14:27	MGC	MS-V5	1	B109445	EPA 524.2

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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 06/04/2021 15:27
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows correspond to runs 1 through 7.

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**Reported:** 06/04/2021 15:27  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2115859-06	<b>Client Sample Name:</b> JPL GW Monitoring, MW-23-2, 5/18/2021 1:45:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0012	mg/L	0.00020	0.000020	EPA-218.6	0.000029		1
Total Recoverable Arsenic	1.0	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	1.5	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	05/24/21 23:00	05/25/21 10:08		SAV	IC-4	1	B109905	No Prep
2	EPA-200.8	05/28/21 08:15	05/29/21 02:35		KHS	PE-EL4	1	B110352	EPA 200.2
3	EPA-200.7	06/01/21 10:05	06/01/21 15:06		JRG	PE-OP4	1	B110503	EPA 200.2

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Reported: 06/04/2021 15:27  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2115859-07	<b>Client Sample Name:</b> JPL GW Monitoring, EB-1-051821, 5/18/2021 2:30:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 06/04/2021 15:27  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2115859-07	<b>Client Sample Name:</b> JPL GW Monitoring, EB-1-051821, 5/18/2021 2:30:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/04/2021 15:27  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2115859-07	<b>Client Sample Name:</b> JPL GW Monitoring, EB-1-051821, 5/18/2021 2:30:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/21/21 05:00	05/21/21 14:51	MGC	MS-V5	1	B109445	EPA 524.2

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**Reported:** 06/04/2021 15:27  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2115859-07	<b>Client Sample Name:</b> JPL GW Monitoring, EB-1-051821, 5/18/2021 2:30:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/21/21 05:00	05/21/21	14:51	MGC	MS-V5	1	B109445	EPA 524.2

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Reported: 06/04/2021 15:27
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with 9 columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with 10 columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows correspond to runs 1 through 7.

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**Reported:** 06/04/2021 15:27  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2115859-07	<b>Client Sample Name:</b> JPL GW Monitoring, EB-1-051821, 5/18/2021 2:30:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000083	mg/L	0.00020	0.000020	EPA-218.6	0.000029	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	05/24/21 23:00	05/25/21 09:59		SAV	IC-4	1	B109905	No Prep
2	EPA-200.8	05/28/21 08:15	05/29/21 02:37		KHS	PE-EL4	1	B110352	EPA 200.2
3	EPA-200.7	06/01/21 10:05	06/01/21 15:25		JRG	PE-OP4	1	B110503	EPA 200.2

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Reported: 06/04/2021 15:27  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B109445</b>						
Benzene	B109445-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B109445-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B109445-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B109445-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B109445-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B109445-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B109445-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B109445-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B109445-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B109445-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B109445-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B109445-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B109445-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B109445-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B109445-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B109445-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B109445-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B109445-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B109445-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B109445-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B109445-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B109445-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B109445-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B109445-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B109445-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B109445-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B109445-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B109445-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B109445-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B109445-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B109445-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B109445-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B109445-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B109445-BLK1	ND	ug/L	0.50	0.14	

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Powell, OH 43065

Reported: 06/04/2021 15:27  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B109445</b>						
trans-1,3-Dichloropropene	B109445-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B109445-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B109445-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B109445-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B109445-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B109445-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B109445-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B109445-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B109445-BLK1	ND	ug/L	0.50	0.12	
Styrene	B109445-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B109445-BLK1	ND	ug/L	0.50	0.21	
1,1,2,2-Tetrachloroethane	B109445-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B109445-BLK1	ND	ug/L	0.50	0.23	
Toluene	B109445-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B109445-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B109445-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B109445-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B109445-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B109445-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B109445-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B109445-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B109445-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B109445-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B109445-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B109445-BLK1	ND	ug/L	0.50	0.18	
Acetone	B109445-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B109445-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B109445-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B109445-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B109445-BLK1	ND	ug/L	2.0	2.0	
Carbon disulfide	B109445-BLK1	ND	ug/L	0.50	0.48	
trans-1,4-Dichloro-2-butene	B109445-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B109445-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B109445-BLK1	ND	ug/L	4.0	1.3	

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**Reported:** 06/04/2021 15:27  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B109445</b>						
Ethyl t-butyl ether	B109445-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B109445-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B109445-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B109445-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B109445-BLK1	ND	ug/L	5.0	3.3	
Methyl iodide	B109445-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B109445-BLK1	ND	ug/L	5.0	2.4	
Methyl methacrylate	B109445-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B109445-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B109445-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B109445-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B109445-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B109445-BLK1	ND	ug/L	0.50	0.13	
<b>1,2-Dichloroethane-d4 (Surrogate)</b>	<b>B109445-BLK1</b>	<b>101</b>	<b>%</b>	<b>75 - 125 (LCL - UCL)</b>		
<b>Toluene-d8 (Surrogate)</b>	<b>B109445-BLK1</b>	<b>101</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		
<b>4-Bromofluorobenzene (Surrogate)</b>	<b>B109445-BLK1</b>	<b>97.1</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		

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**Reported:** 06/04/2021 15:27  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: B109445</b>										
Benzene	B109445-BS1	LCS	22.310	25.000	ug/L	89.2		70 - 130		
Bromodichloromethane	B109445-BS1	LCS	27.750	25.000	ug/L	111		70 - 130		
Chlorobenzene	B109445-BS1	LCS	24.250	25.000	ug/L	97.0		70 - 130		
Chloroethane	B109445-BS1	LCS	23.470	25.000	ug/L	93.9		70 - 130		
1,4-Dichlorobenzene	B109445-BS1	LCS	24.150	25.000	ug/L	96.6		70 - 130		
1,1-Dichloroethane	B109445-BS1	LCS	24.610	25.000	ug/L	98.4		70 - 130		
1,1-Dichloroethene	B109445-BS1	LCS	26.990	25.000	ug/L	108		70 - 130		
Toluene	B109445-BS1	LCS	24.790	25.000	ug/L	99.2		70 - 130		
Trichloroethene	B109445-BS1	LCS	24.510	25.000	ug/L	98.0		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B109445-BS1	LCS	10.770	10.000	ug/L	108		75 - 125		
Toluene-d8 (Surrogate)	B109445-BS1	LCS	10.320	10.000	ug/L	103		80 - 120		
4-Bromofluorobenzene (Surrogate)	B109445-BS1	LCS	10.230	10.000	ug/L	102		80 - 120		

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Reported: 06/04/2021 15:27  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: B109445</b>		Used client sample: N								
Benzene	MS	2116093-04	ND	22.930	25.000	ug/L		91.7		70 - 130
	MSD	2116093-04	ND	23.400	25.000	ug/L	2.0	93.6	20	70 - 130
Bromodichloromethane	MS	2116093-04	ND	27.720	25.000	ug/L		111		70 - 130
	MSD	2116093-04	ND	28.100	25.000	ug/L	1.4	112	20	70 - 130
Chlorobenzene	MS	2116093-04	ND	24.670	25.000	ug/L		98.7		70 - 130
	MSD	2116093-04	ND	25.180	25.000	ug/L	2.0	101	20	70 - 130
Chloroethane	MS	2116093-04	ND	23.470	25.000	ug/L		93.9		70 - 130
	MSD	2116093-04	ND	23.300	25.000	ug/L	0.7	93.2	20	70 - 130
1,4-Dichlorobenzene	MS	2116093-04	ND	25.110	25.000	ug/L		100		70 - 130
	MSD	2116093-04	ND	25.170	25.000	ug/L	0.2	101	20	70 - 130
1,1-Dichloroethane	MS	2116093-04	ND	24.860	25.000	ug/L		99.4		70 - 130
	MSD	2116093-04	ND	25.100	25.000	ug/L	1.0	100	20	70 - 130
1,1-Dichloroethene	MS	2116093-04	ND	27.300	25.000	ug/L		109		70 - 130
	MSD	2116093-04	ND	27.620	25.000	ug/L	1.2	110	20	70 - 130
Toluene	MS	2116093-04	ND	24.410	25.000	ug/L		97.6		70 - 130
	MSD	2116093-04	ND	24.620	25.000	ug/L	0.9	98.5	20	70 - 130
Trichloroethene	MS	2116093-04	0.24000	24.980	25.000	ug/L		99.0		70 - 130
	MSD	2116093-04	0.24000	25.160	25.000	ug/L	0.7	99.7	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	2116093-04	ND	10.880	10.000	ug/L		109		75 - 125
	MSD	2116093-04	ND	10.660	10.000	ug/L	2.0	107		75 - 125
Toluene-d8 (Surrogate)	MS	2116093-04	ND	9.8200	10.000	ug/L		98.2		80 - 120
	MSD	2116093-04	ND	9.9500	10.000	ug/L	1.3	99.5		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	2116093-04	ND	10.310	10.000	ug/L		103		80 - 120
	MSD	2116093-04	ND	10.600	10.000	ug/L	2.8	106		80 - 120

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**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2) TICs

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B109445</b>						
Chloroacetonitrile	B109445-BLK1	0	ug/L			
1-Chlorobutane	B109445-BLK1	0	ug/L			
1,1-Dichloropropanone	B109445-BLK1	0	ug/L			
Methyl acrylate	B109445-BLK1	0	ug/L			
Nitrobenzene	B109445-BLK1	0	ug/L			
2-Nitropropane	B109445-BLK1	0	ug/L			

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**Reported:** 06/04/2021 15:27  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B109219</b>						
Chloride	B109219-BLK1	0.16700	mg/L	0.50	0.13	J
Nitrate as N	B109219-BLK1	ND	mg/L	0.10	0.024	
Sulfate	B109219-BLK1	ND	mg/L	1.0	0.14	
<b>QC Batch ID: B109347</b>						
Total Dissolved Solids @ 180 C	B109347-BLK1	ND	mg/L	6.7	3.3	
<b>QC Batch ID: B109464</b>						
Bicarbonate	B109464-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B109464-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B109464-BLK1	ND	mg/L	4.1	4.1	
<b>QC Batch ID: B109465</b>						
Bicarbonate	B109465-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B109465-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B109465-BLK1	ND	mg/L	4.1	4.1	
<b>QC Batch ID: B109816</b>						
Nitrite as N	B109816-BLK1	ND	mg/L	0.050	0.010	
<b>QC Batch ID: B110040</b>						
Perchlorate	B110040-BLK1	ND	ug/L	4.0	0.81	
<b>QC Batch ID: B110435</b>						
Total Recoverable Calcium	B110435-BLK1	ND	mg/L	0.10	0.014	
<b>Total Recoverable Magnesium</b>	<b>B110435-BLK1</b>	<b>0.019276</b>	<b>mg/L</b>	<b>0.050</b>	<b>0.019</b>	<b>J</b>
Total Recoverable Sodium	B110435-BLK1	ND	mg/L	0.50	0.051	
Total Recoverable Potassium	B110435-BLK1	ND	mg/L	1.0	0.10	
<b>QC Batch ID: B110503</b>						
<b>Total Recoverable Calcium</b>	<b>B110503-BLK1</b>	<b>0.016861</b>	<b>mg/L</b>	<b>0.10</b>	<b>0.014</b>	<b>J</b>
Total Recoverable Magnesium	B110503-BLK1	ND	mg/L	0.050	0.019	
<b>Total Recoverable Sodium</b>	<b>B110503-BLK1</b>	<b>0.087894</b>	<b>mg/L</b>	<b>0.50</b>	<b>0.051</b>	<b>J</b>
Total Recoverable Potassium	B110503-BLK1	ND	mg/L	1.0	0.10	

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Reported: 06/04/2021 15:27
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Table with columns: Constituent, QC Sample ID, Type, Result, Spike Level, Units, Percent Recovery, RPD, Control Limits (Percent Recovery, RPD), Lab (Quals). Includes multiple QC Batch ID sections (B109219, B109347, B109464, B109465, B109816, B110040, B110435, B110503).

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Reported: 06/04/2021 15:27
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes QC Batch IDs B109219, B109347, B109464, B109465, B109816, B110040, and B110435.

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Reported: 06/04/2021 15:27  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Water Analysis (General Chemistry)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
<b>QC Batch ID: B110435</b>		Used client sample: Y - Description: MW-23-3, 05/18/2021 12:45								
Total Recoverable Magnesium	DUP	2115859-04	17.785	18.175		mg/L	2.2		20	
	MS	2115859-04	17.785	26.299	10.000	mg/L		85.1		75 - 125
	MSD	2115859-04	17.785	25.305	10.000	mg/L	3.9	75.2	20	75 - 125
Total Recoverable Sodium	DUP	2115859-04	30.215	30.599		mg/L	1.3		20	
	MS	2115859-04	30.215	39.012	10.000	mg/L		88.0		75 - 125
	MSD	2115859-04	30.215	37.816	10.000	mg/L	3.1	76.0	20	75 - 125
Total Recoverable Potassium	DUP	2115859-04	1.9340	1.9404		mg/L	0.3		20	
	MS	2115859-04	1.9340	10.962	10.000	mg/L		90.3		75 - 125
	MSD	2115859-04	1.9340	10.663	10.000	mg/L	2.8	87.3	20	75 - 125
<b>QC Batch ID: B110503</b>		Used client sample: Y - Description: DUP-1-2Q21, 05/18/2021 13:00								
Total Recoverable Calcium	DUP	2115859-05	53.231	53.034		mg/L	0.4		20	
	MS	2115859-05	53.231	60.022	10.000	mg/L		67.9		75 - 125 A03
	MSD	2115859-05	53.231	58.710	10.000	mg/L	2.2	54.8	20	75 - 125 A03
Total Recoverable Magnesium	DUP	2115859-05	17.794	17.778		mg/L	0.1		20	
	MS	2115859-05	17.794	24.912	10.000	mg/L		71.2		75 - 125 Q03
	MSD	2115859-05	17.794	24.294	10.000	mg/L	2.5	65.0	20	75 - 125 Q03
Total Recoverable Sodium	DUP	2115859-05	30.406	30.314		mg/L	0.3		20	
	MS	2115859-05	30.406	37.906	10.000	mg/L		75.0		75 - 125
	MSD	2115859-05	30.406	37.116	10.000	mg/L	2.1	67.1	20	75 - 125 Q03
Total Recoverable Potassium	DUP	2115859-05	1.9457	1.9003		mg/L	2.4		20	
	MS	2115859-05	1.9457	9.9610	10.000	mg/L		80.2		75 - 125
	MSD	2115859-05	1.9457	9.9909	10.000	mg/L	0.3	80.5	20	75 - 125

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**Reported:** 06/04/2021 15:27  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B109905</b>						
Hexavalent Chromium	B109905-BLK1	0.000029000	mg/L	0.00020	0.000020	J
<b>QC Batch ID: B110311</b>						
Total Recoverable Arsenic	B110311-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B110311-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B110311-BLK1	ND	ug/L	1.0	0.10	
<b>QC Batch ID: B110352</b>						
Total Recoverable Arsenic	B110352-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B110352-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B110352-BLK1	ND	ug/L	1.0	0.10	
<b>QC Batch ID: B110435</b>						
Total Recoverable Iron	B110435-BLK1	ND	ug/L	50	30	
<b>QC Batch ID: B110503</b>						
Total Recoverable Iron	B110503-BLK1	ND	ug/L	50	30	

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**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
<b>QC Batch ID: B109905</b>										
Hexavalent Chromium	B109905-BS1	LCS	0.020257	0.020000	mg/L	101		90 - 110		
	B109905-BSD1	LCSD	0.020356	0.020000	mg/L	102	0.5	90 - 110	10	
<b>QC Batch ID: B110311</b>										
Total Recoverable Arsenic	B110311-BS1	LCS	109.76	100.00	ug/L	110		85 - 115		
Total Recoverable Chromium	B110311-BS1	LCS	42.374	40.000	ug/L	106		85 - 115		
Total Recoverable Lead	B110311-BS1	LCS	108.75	100.00	ug/L	109		85 - 115		
<b>QC Batch ID: B110352</b>										
Total Recoverable Arsenic	B110352-BS1	LCS	109.30	100.00	ug/L	109		85 - 115		
Total Recoverable Chromium	B110352-BS1	LCS	41.714	40.000	ug/L	104		85 - 115		
Total Recoverable Lead	B110352-BS1	LCS	108.95	100.00	ug/L	109		85 - 115		
<b>QC Batch ID: B110435</b>										
Total Recoverable Iron	B110435-BS1	LCS	915.45	1000.0	ug/L	91.5		85 - 115		
<b>QC Batch ID: B110503</b>										
Total Recoverable Iron	B110503-BS1	LCS	872.77	1000.0	ug/L	87.3		85 - 115		

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Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Control Limits Percent Recovery, Lab Quals. Includes QC Batch IDs B109905, B110311, B110352, B110435, and B110503.

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/04/2021 15:27  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

**Notes And Definitions**

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A02 The difference between duplicate readings is less than the quantitation limit.
- A03 The sample concentration was more than 4 times the spike level.
- A07 Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
- A40 Initial calibration linearity criteria not met.
- Q03 Matrix spike recovery(s) was(were) not within the control limits.
- S05 The sample holding time was exceeded.
- V01 The Initial Calibration Verification (ICV) recovery is not within established control limits.
- V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.

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Date of Report: 06/07/2021

David Conner

Tidewater Inc. - Powell

3761 Attucks Drive  
Powell, OH 43065

Client Project: 2Q21  
BCL Project: JPL- GW Monitoring Wells-CLP  
BCL Work Order: 2116093  
Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 5/19/2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda  
Client Service Rep

Stuart Buttram  
Technical Director

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 1

Submission #: 21-16093

SHIPPING INFORMATION: Fed Ex  UPS  GSO / GLS  Hand Delivery  BC Lab Field Service  Other  (Specify) \_\_\_\_\_

SHIPPING CONTAINER: Ice Chest  None  Box  Other  (Specify) \_\_\_\_\_

FREE LIQUID: YES  NO  W / S \_\_\_\_\_

Refrigerant: Ice  Blue Ice  None  Other  Comments: \_\_\_\_\_

Custody Seals: Ice Chest  Containers  None  Comments: \_\_\_\_\_

All samples received? Yes  No  All samples containers intact? Yes  No  Description(s) match COC? Yes  No

COC Received: YES  NO  Emissivity: 0.97 Container: PE Thermometer ID: 208 Date/Time: 5/19/21 2040

Temperature: (A) 1.8 °C / (C) 1.8 °C Analyst Init: PPE

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES		D	D	G,H	D	D	D	D	D	
4oz / 8oz / 16oz PE UNPRES										
2oz Cr <sup>6+</sup>		F	F	F,L	F	F	F	F	F	
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz		E	E	I,J	E	E	E	E	E	
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A									
40ml VOA VIAL		A-C	A-C	A-F	A-C	A-C	A-C	A-C	A-C	
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/808A										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 545										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: \_\_\_\_\_

Sample Numbering Completed By: CAD Date/Time: 5/20/21 0740 Rev 22 04/13/21

A = Actual / C = Corrected

(S:\WPDoc\WordPerfect\LAB\_DOCS\FORMS\ISS\AMRECRev 20)



Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/07/2021 12:48  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

<b>2116093-01</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL GW Monitoring <b>Sampling Location:</b> --- <b>Sampling Point:</b> TB-2-051921 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/19/2021 20:45 <b>Sampling Date:</b> 05/19/2021 08:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Trip Blank Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-2-051921 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>2116093-02</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL GW Monitoring <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-4-5 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/19/2021 20:45 <b>Sampling Date:</b> 05/19/2021 09:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-4-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>2116093-03</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL GW Monitoring <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-4-4 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/19/2021 20:45 <b>Sampling Date:</b> 05/19/2021 10:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-4-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/07/2021 12:48  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

<b>2116093-04</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL GW Monitoring <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-4-3 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/19/2021 20:45 <b>Sampling Date:</b> 05/19/2021 10:30 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-4-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>2116093-05</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL GW Monitoring <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-4-2 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/19/2021 20:45 <b>Sampling Date:</b> 05/19/2021 11:30 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-4-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>2116093-06</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL GW Monitoring <b>Sampling Location:</b> --- <b>Sampling Point:</b> EB-2-051921 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/19/2021 20:45 <b>Sampling Date:</b> 05/19/2021 13:45 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-2-051921 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/07/2021 12:48  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

<b>2116093-07</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL GW Monitoring <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-19-5 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/19/2021 20:45 <b>Sampling Date:</b> 05/19/2021 14:15 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-19-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>2116093-08</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL GW Monitoring <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-19-4 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/19/2021 20:45 <b>Sampling Date:</b> 05/19/2021 14:45 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-19-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>2116093-09</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL GW Monitoring <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-19-3 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/19/2021 20:45 <b>Sampling Date:</b> 05/19/2021 15:15 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-19-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/07/2021 12:48  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116093-01	<b>Client Sample Name:</b> JPL GW Monitoring, TB-2-051921, 5/19/2021 8:00:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/07/2021 12:48  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116093-01	<b>Client Sample Name:</b> JPL GW Monitoring, TB-2-051921, 5/19/2021 8:00:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/07/2021 12:48  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116093-01	<b>Client Sample Name:</b> JPL GW Monitoring, TB-2-051921, 5/19/2021 8:00:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/21/21 05:00	05/21/21 09:15	MGC	MS-V5	1	B109445	EPA 524.2

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/07/2021 12:48  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116093-01	<b>Client Sample Name:</b> JPL GW Monitoring, TB-2-051921, 5/19/2021 8:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/21/21 05:00	05/21/21	09:15	MGC	MS-V5	1	B109445	EPA 524.2

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Reported: 06/07/2021 12:48  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116093-02	<b>Client Sample Name:</b> JPL GW Monitoring, MW-4-5, 5/19/2021 9:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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**Reported:** 06/07/2021 12:48  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116093-02	<b>Client Sample Name:</b> JPL GW Monitoring, MW-4-5, 5/19/2021 9:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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3761 Attucks Drive  
Powell, OH 43065

Reported: 06/07/2021 12:48  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116093-02	<b>Client Sample Name:</b> JPL GW Monitoring, MW-4-5, 5/19/2021 9:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	113	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/21/21 05:00	05/21/21 09:39	MGC	MS-V5	1	B109445	EPA 524.2

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**Reported:** 06/07/2021 12:48  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116093-02	<b>Client Sample Name:</b> JPL GW Monitoring, MW-4-5, 5/19/2021 9:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/21/21 05:00	05/21/21	09:39	MGC	MS-V5	1	B109445	EPA 524.2

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Reported: 06/07/2021 12:48
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with 9 columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Lists various chemical constituents like Calcium, Magnesium, Sodium, Potassium, Bicarbonate, etc.

Table with 10 columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Provides details for each of the 7 runs.

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**Reported:** 06/07/2021 12:48  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116093-02	<b>Client Sample Name:</b> JPL GW Monitoring, MW-4-5, 5/19/2021 9:00:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000063	mg/L	0.00020	0.000020	EPA-218.6	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
<b>Total Recoverable Iron</b>	<b>290</b>	<b>ug/L</b>	<b>50</b>	<b>30</b>	<b>EPA-200.7</b>	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-218.6	05/24/21 23:00	05/25/21 11:25	SAV	IC-4	1	B109906	No Prep
2	EPA-200.8	05/28/21 08:15	05/29/21 03:23	EAR	PE-EL4	1	B110353	EPA 200.2
3	EPA-200.7	06/01/21 22:55	06/02/21 14:06	JRG	PE-OP4	1	B110535	EPA 200.2

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Reported: 06/07/2021 12:48  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116093-03	<b>Client Sample Name:</b> JPL GW Monitoring, MW-4-4, 5/19/2021 10:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Chloroform</b>	<b>0.14</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 06/07/2021 12:48
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2116093-03) and Client Sample Name (JPL GW Monitoring, MW-4-4, 5/19/2021 10:00:00AM)

Main data table with columns: Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Qualls, Run #. Lists various chemical constituents and their analysis results.

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Powell, OH 43065

Reported: 06/07/2021 12:48  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116093-03	<b>Client Sample Name:</b> JPL GW Monitoring, MW-4-4, 5/19/2021 10:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	110	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/21/21 05:00	05/21/21 10:03	MGC	MS-V5	1	B109445	EPA 524.2

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/07/2021 12:48  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116093-03	<b>Client Sample Name:</b> JPL GW Monitoring, MW-4-4, 5/19/2021 10:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/21/21 05:00	05/21/21	10:03	MGC	MS-V5	1	B109445	EPA 524.2

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Powell, OH 43065

Reported: 06/07/2021 12:48  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Water Analysis (General Chemistry)

BCL Sample ID: 2116093-03		Client Sample Name: JPL GW Monitoring, MW-4-4, 5/19/2021 10:00:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	46	mg/L	0.10	0.014	EPA-200.7	0.026		1	
Total Recoverable Magnesium	17	mg/L	0.050	0.019	EPA-200.7	0.027		1	
Total Recoverable Sodium	32	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	1.8	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	200	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	160	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	49	mg/L	0.50	0.13	EPA-300.0	0.21		3	
Nitrate as N	5.4	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	44	mg/L	1.0	0.14	EPA-300.0	0.23		3	
pH	8.11	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	370	mg/L	20	10	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	2.5	ug/L	4.0	0.81	EPA-314.0	ND	J	7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/01/21 22:55	06/02/21 14:08		JRG	PE-OP4	1	B110535	EPA 200.2
2	SM-2320B	05/25/21 06:30	05/25/21 21:08		RML	MET-1	1	B109468	No Prep
3	EPA-300.0	05/20/21 15:00	05/20/21 19:21		GSP	IC7	1	B109680	No Prep
4	EPA-150.1	05/25/21 06:30	05/25/21 21:08		RML	MET-1	1	B109468	No Prep
5	EPA-160.1	05/24/21 13:00	05/24/21 13:00		CAD	MANUAL	2	B109859	No Prep
6	EPA-353.2	05/20/21 20:48	05/20/21 20:59		KB1	KONE-1	1	B109822	No Prep
7	EPA-314.0	05/26/21 21:00	05/27/21 01:27		SAV	IC6	1	B110233	No Prep

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**Reported:** 06/07/2021 12:48  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116093-03	<b>Client Sample Name:</b> JPL GW Monitoring, MW-4-4, 5/19/2021 10:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000055	mg/L	0.00020	0.000020	EPA-218.6	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
<b>Total Recoverable Iron</b>	<b>180</b>	<b>ug/L</b>	<b>50</b>	<b>30</b>	<b>EPA-200.7</b>	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	05/24/21 23:00	05/25/21 11:54		SAV	IC-4	1	B109906	No Prep
2	EPA-200.8	05/28/21 08:15	05/29/21 03:25		EAR	PE-EL4	1	B110353	EPA 200.2
3	EPA-200.7	06/01/21 22:55	06/02/21 14:08		JRG	PE-OP4	1	B110535	EPA 200.2

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Reported: 06/07/2021 12:48  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116093-04	<b>Client Sample Name:</b> JPL GW Monitoring, MW-4-3, 5/19/2021 10:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Chloroform</b>	<b>0.18</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 06/07/2021 12:48
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2116093-04) and Client Sample Name (JPL GW Monitoring, MW-4-3, 5/19/2021 10:30:00AM)

Main data table with columns: Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Lists various chemical compounds and their test results.

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Reported: 06/07/2021 12:48  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116093-04	<b>Client Sample Name:</b> JPL GW Monitoring, MW-4-3, 5/19/2021 10:30:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/21/21 05:00	05/21/21 06:51	MGC	MS-V5	1	B109445	EPA 524.2

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**Reported:** 06/07/2021 12:48  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116093-04	<b>Client Sample Name:</b> JPL GW Monitoring, MW-4-3, 5/19/2021 10:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/21/21 05:00	05/21/21	06:51	MGC	MS-V5	1	B109445	EPA 524.2

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Reported: 06/07/2021 12:48  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Water Analysis (General Chemistry)

BCL Sample ID: 2116093-04		Client Sample Name: JPL GW Monitoring, MW-4-3, 5/19/2021 10:30:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	51	mg/L	0.10	0.014	EPA-200.7	0.026		1	
Total Recoverable Magnesium	18	mg/L	0.050	0.019	EPA-200.7	0.027		1	
Total Recoverable Sodium	32	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	1.8	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	210	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	170	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	49	mg/L	0.50	0.13	EPA-300.0	0.21		3	
Nitrate as N	7.5	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	43	mg/L	1.0	0.14	EPA-300.0	0.23		3	
pH	8.21	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	400	mg/L	20	10	EPA-160.1	ND	A07	5	
Nitrite as N	0.017	mg/L	0.050	0.010	EPA-353.2	ND	J	6	
Perchlorate	2.5	ug/L	4.0	0.81	EPA-314.0	ND	J	7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/01/21 22:55	06/02/21 13:31		JRG	PE-OP4	1	B110535	EPA 200.2
2	SM-2320B	05/25/21 13:00	05/25/21 21:43		RML	MET-1	1	B109469	No Prep
3	EPA-300.0	05/20/21 15:00	05/20/21 19:39		GSP	IC7	1	B109680	No Prep
4	EPA-150.1	05/25/21 13:00	05/25/21 21:43		RML	MET-1	1	B109469	No Prep
5	EPA-160.1	05/24/21 13:00	05/24/21 13:00		CAD	MANUAL	2	B109859	No Prep
6	EPA-353.2	05/20/21 20:48	05/20/21 20:54		KB1	KONE-1	1	B109822	No Prep
7	EPA-314.0	05/26/21 21:00	05/26/21 23:09		SAV	IC6	1	B110233	No Prep

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**Reported:** 06/07/2021 12:48  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116093-04	<b>Client Sample Name:</b> JPL GW Monitoring, MW-4-3, 5/19/2021 10:30:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00051	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Arsenic	0.90	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	1.3	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	1900	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	05/24/21 23:00	05/25/21 12:03		SAV	IC-4	1	B109906	No Prep
2	EPA-200.8	05/28/21 08:15	05/29/21 02:56		EAR	PE-EL4	1	B110353	EPA 200.2
3	EPA-200.7	06/01/21 22:55	06/02/21 13:31		JRG	PE-OP4	1	B110535	EPA 200.2

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Reported: 06/07/2021 12:48  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116093-05	<b>Client Sample Name:</b> JPL GW Monitoring, MW-4-2, 5/19/2021 11:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Chloroform</b>	<b>0.76</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/07/2021 12:48  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116093-05	<b>Client Sample Name:</b> JPL GW Monitoring, MW-4-2, 5/19/2021 11:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
<b>Trichloroethene</b>	<b>0.30</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.19</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/07/2021 12:48  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116093-05	<b>Client Sample Name:</b> JPL GW Monitoring, MW-4-2, 5/19/2021 11:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/21/21 05:00	05/21/21 10:27	MGC	MS-V5	1	B109445	EPA 524.2

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Powell, OH 43065

**Reported:** 06/07/2021 12:48  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116093-05	<b>Client Sample Name:</b> JPL GW Monitoring, MW-4-2, 5/19/2021 11:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/21/21 05:00	05/21/21	10:27	MGC	MS-V5	1	B109445	EPA 524.2

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Powell, OH 43065

Reported: 06/07/2021 12:48
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows correspond to runs 1 through 7.

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**Reported:** 06/07/2021 12:48  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116093-05	<b>Client Sample Name:</b> JPL GW Monitoring, MW-4-2, 5/19/2021 11:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00012	mg/L	0.00020	0.000020	EPA-218.6	ND	J	1
Total Recoverable Arsenic	0.78	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	0.58	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	490	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	05/24/21 23:00	05/25/21 12:42		SAV	IC-4	1	B109906	No Prep
2	EPA-200.8	05/28/21 08:15	05/29/21 03:27		EAR	PE-EL4	1	B110353	EPA 200.2
3	EPA-200.7	06/01/21 22:55	06/02/21 13:44		JRG	PE-OP4	1	B110535	EPA 200.2

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Reported: 06/07/2021 12:48  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116093-06	<b>Client Sample Name:</b> JPL GW Monitoring, EB-2-051921, 5/19/2021 1:45:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 06/07/2021 12:48
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2116093-06) and Client Sample Name (JPL GW Monitoring, EB-2-051921, 5/19/2021 1:45:00PM)

Main data table with columns: Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Qualls, Run #. Lists various chemical compounds and their analysis results.

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Powell, OH 43065

Reported: 06/07/2021 12:48  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116093-06	<b>Client Sample Name:</b> JPL GW Monitoring, EB-2-051921, 5/19/2021 1:45:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/21/21 05:00	05/21/21 10:51	MGC	MS-V5	1	B109445	EPA 524.2

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**Reported:** 06/07/2021 12:48  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116093-06	<b>Client Sample Name:</b> JPL GW Monitoring, EB-2-051921, 5/19/2021 1:45:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/21/21 05:00	05/21/21	10:51	MGC	MS-V5	1	B109445	EPA 524.2

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Reported: 06/07/2021 12:48  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Water Analysis (General Chemistry)

BCL Sample ID: 2116093-06		Client Sample Name: JPL GW Monitoring, EB-2-051921, 5/19/2021 1:45:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	0.046	mg/L	0.10	0.014	EPA-200.7	0.026	J	1
Total Recoverable Magnesium	0.038	mg/L	0.050	0.019	EPA-200.7	0.027	J	1
Total Recoverable Sodium	0.13	mg/L	0.50	0.051	EPA-200.7	ND	J	1
Total Recoverable Potassium	ND	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	ND	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	0.25	mg/L	0.50	0.13	EPA-300.0	0.21	J	3
Nitrate as N	ND	mg/L	0.10	0.024	EPA-300.0	ND		3
Sulfate	0.27	mg/L	1.0	0.14	EPA-300.0	0.23	J	3
pH	6.03	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	4.0	mg/L	6.7	3.3	EPA-160.1	ND	J	5
Nitrite as N	0.034	mg/L	0.050	0.010	EPA-353.2	ND	J	6
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/01/21 22:55	06/02/21 13:53		JRG	PE-OP4	1	B110535	EPA 200.2
2	SM-2320B	05/25/21 13:00	05/25/21 22:04		RML	MET-1	1	B109469	No Prep
3	EPA-300.0	05/20/21 15:00	05/20/21 21:08		GSP	IC7	1	B109680	No Prep
4	EPA-150.1	05/25/21 13:00	05/25/21 22:04		RML	MET-1	1	B109469	No Prep
5	EPA-160.1	05/24/21 13:00	05/24/21 13:00		CAD	MANUAL	0.667	B109859	No Prep
6	EPA-353.2	05/20/21 20:48	05/20/21 20:59		KB1	KONE-1	1	B109822	No Prep
7	EPA-314.0	05/26/21 21:00	05/27/21 01:12		SAV	IC6	1	B110233	No Prep

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Powell, OH 43065

**Reported:** 06/07/2021 12:48  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116093-06	<b>Client Sample Name:</b> JPL GW Monitoring, EB-2-051921, 5/19/2021 1:45:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000066	mg/L	0.00020	0.000020	EPA-218.6	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	05/24/21 23:00	05/25/21 13:49		SAV	IC-4	1	B109906	No Prep
2	EPA-200.8	05/28/21 08:15	05/29/21 03:29		EAR	PE-EL4	1	B110353	EPA 200.2
3	EPA-200.7	06/01/21 22:55	06/02/21 13:53		JRG	PE-OP4	1	B110535	EPA 200.2

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Reported: 06/07/2021 12:48  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116093-07	<b>Client Sample Name:</b> JPL GW Monitoring, MW-19-5, 5/19/2021 2:15:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Chloroform</b>	<b>2.1</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 06/07/2021 12:48  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116093-07	<b>Client Sample Name:</b> JPL GW Monitoring, MW-19-5, 5/19/2021 2:15:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Tetrachloroethene</b>	<b>0.51</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.23</b>	<b>EPA-524.2</b>	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
<b>Trichloroethene</b>	<b>0.23</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.19</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Powell, OH 43065

**Reported:** 06/07/2021 12:48  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116093-07	<b>Client Sample Name:</b> JPL GW Monitoring, MW-19-5, 5/19/2021 2:15:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	114	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/21/21 05:00	05/21/21 11:15	MGC	MS-V5	1	B109445	EPA 524.2

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**Reported:** 06/07/2021 12:48  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116093-07	<b>Client Sample Name:</b> JPL GW Monitoring, MW-19-5, 5/19/2021 2:15:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/21/21 05:00	05/21/21	11:15	MGC	MS-V5	1	B109445	EPA 524.2

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**Reported:** 06/07/2021 12:48  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

BCL Sample ID: 2116093-07		Client Sample Name: JPL GW Monitoring, MW-19-5, 5/19/2021 2:15:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	79	mg/L	0.10	0.014	EPA-200.7	0.026		1	
Total Recoverable Magnesium	26	mg/L	0.050	0.019	EPA-200.7	0.027		1	
Total Recoverable Sodium	31	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	2.3	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	230	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	190	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	73	mg/L	0.50	0.13	EPA-300.0	0.21		3	
Nitrate as N	8.7	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	94	mg/L	1.0	0.14	EPA-300.0	0.23		3	
pH	8.06	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	490	mg/L	33	17	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	2.9	ug/L	4.0	0.81	EPA-314.0	ND	J	7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/01/21 22:55	06/02/21 13:55		JRG	PE-OP4	1	B110535	EPA 200.2
2	SM-2320B	05/25/21 13:00	05/25/21 22:09		RML	MET-1	1	B109469	No Prep
3	EPA-300.0	05/20/21 15:00	05/20/21 22:02		KB1	IC7	1	B109680	No Prep
4	EPA-150.1	05/25/21 13:00	05/25/21 22:09		RML	MET-1	1	B109469	No Prep
5	EPA-160.1	05/24/21 13:00	05/24/21 13:00		CAD	MANUAL	3.333	B109859	No Prep
6	EPA-353.2	05/20/21 20:48	05/20/21 20:59		KB1	KONE-1	1	B109822	No Prep
7	EPA-314.0	05/26/21 21:00	05/27/21 01:58		SAV	IC6	1	B110233	No Prep

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**Reported:** 06/07/2021 12:48  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116093-07	<b>Client Sample Name:</b> JPL GW Monitoring, MW-19-5, 5/19/2021 2:15:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0011	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Arsenic	1.3	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	2.3	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	54	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	05/24/21 23:00	05/25/21 12:51		SAV	IC-4	1	B109906	No Prep
2	EPA-200.8	05/28/21 08:15	05/29/21 03:30		EAR	PE-EL4	1	B110353	EPA 200.2
3	EPA-200.7	06/01/21 22:55	06/02/21 13:55		JRG	PE-OP4	1	B110535	EPA 200.2

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Reported: 06/07/2021 12:48  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116093-08	<b>Client Sample Name:</b> JPL GW Monitoring, MW-19-4, 5/19/2021 2:45:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Chloroform</b>	<b>2.6</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/07/2021 12:48  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2116093-08		Client Sample Name: JPL GW Monitoring, MW-19-4, 5/19/2021 2:45:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Tetrachloroethene</b>	<b>0.71</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.23</b>	<b>EPA-524.2</b>	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
<b>Trichloroethene</b>	<b>0.32</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.19</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/07/2021 12:48  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116093-08	<b>Client Sample Name:</b> JPL GW Monitoring, MW-19-4, 5/19/2021 2:45:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	113	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/21/21 05:00	05/21/21 11:39	MGC	MS-V5	1	B109445	EPA 524.2

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Powell, OH 43065

**Reported:** 06/07/2021 12:48  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116093-08	<b>Client Sample Name:</b> JPL GW Monitoring, MW-19-4, 5/19/2021 2:45:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/21/21 05:00	05/21/21	11:39	MGC	MS-V5	1	B109445	EPA 524.2

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Tidewater Inc. - Powell
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Powell, OH 43065

Reported: 06/07/2021 12:48
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows 1-7 detailing sample preparation and analysis parameters.

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**Reported:** 06/07/2021 12:48  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116093-08	<b>Client Sample Name:</b> JPL GW Monitoring, MW-19-4, 5/19/2021 2:45:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0013	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Arsenic	1.2	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	2.5	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	44	ug/L	50	30	EPA-200.7	ND	J	3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	05/24/21 23:00	05/25/21 13:01		SAV	IC-4	1	B109906	No Prep
2	EPA-200.8	06/01/21 23:15	06/02/21 12:44		KHS	PE-EL2	1	B110537	EPA 200.2
3	EPA-200.7	06/01/21 22:55	06/02/21 13:57		JRG	PE-OP4	1	B110535	EPA 200.2

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Reported: 06/07/2021 12:48  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116093-09	<b>Client Sample Name:</b> JPL GW Monitoring, MW-19-3, 5/19/2021 3:15:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Chloroform</b>	<b>1.7</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 06/07/2021 12:48  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116093-09	<b>Client Sample Name:</b> JPL GW Monitoring, MW-19-3, 5/19/2021 3:15:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Tetrachloroethene</b>	<b>0.97</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.23</b>	<b>EPA-524.2</b>	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
<b>Trichloroethene</b>	<b>0.35</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.19</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Powell, OH 43065

**Reported:** 06/07/2021 12:48  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116093-09	<b>Client Sample Name:</b> JPL GW Monitoring, MW-19-3, 5/19/2021 3:15:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/21/21 05:00	05/21/21 12:03	MGC	MS-V5	1	B109445	EPA 524.2

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/07/2021 12:48  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116093-09	<b>Client Sample Name:</b> JPL GW Monitoring, MW-19-3, 5/19/2021 3:15:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/21/21 05:00	05/21/21	12:03	MGC	MS-V5	1	B109445	EPA 524.2

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Reported: 06/07/2021 12:48
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows correspond to runs 1 through 7.

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**Reported:** 06/07/2021 12:48  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116093-09	<b>Client Sample Name:</b> JPL GW Monitoring, MW-19-3, 5/19/2021 3:15:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00084	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Arsenic	1.8	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	2.2	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	140	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	05/24/21 23:00	05/25/21 13:10		SAV	IC-4	1	B109906	No Prep
2	EPA-200.8	06/01/21 23:15	06/02/21 13:03		KHS	PE-EL2	1	B110537	EPA 200.2
3	EPA-200.7	06/01/21 22:55	06/02/21 13:59		JRG	PE-OP4	1	B110535	EPA 200.2

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Reported: 06/07/2021 12:48  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B109445</b>						
Benzene	B109445-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B109445-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B109445-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B109445-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B109445-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B109445-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B109445-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B109445-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B109445-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B109445-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B109445-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B109445-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B109445-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B109445-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B109445-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B109445-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B109445-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B109445-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B109445-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B109445-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B109445-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B109445-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B109445-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B109445-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B109445-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B109445-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B109445-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B109445-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B109445-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B109445-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B109445-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B109445-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B109445-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B109445-BLK1	ND	ug/L	0.50	0.14	

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**Reported:** 06/07/2021 12:48  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B109445</b>						
trans-1,3-Dichloropropene	B109445-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B109445-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B109445-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B109445-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B109445-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B109445-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B109445-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B109445-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B109445-BLK1	ND	ug/L	0.50	0.12	
Styrene	B109445-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B109445-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2,2-Tetrachloroethane	B109445-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B109445-BLK1	ND	ug/L	0.50	0.23	
Toluene	B109445-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B109445-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B109445-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B109445-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B109445-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B109445-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B109445-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B109445-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B109445-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B109445-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B109445-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B109445-BLK1	ND	ug/L	0.50	0.18	
Acetone	B109445-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B109445-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B109445-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B109445-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B109445-BLK1	ND	ug/L	2.0	2.0	
Carbon disulfide	B109445-BLK1	ND	ug/L	0.50	0.48	
trans-1,4-Dichloro-2-butene	B109445-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B109445-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B109445-BLK1	ND	ug/L	4.0	1.3	

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**Reported:** 06/07/2021 12:48  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B109445</b>						
Ethyl t-butyl ether	B109445-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B109445-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B109445-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B109445-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B109445-BLK1	ND	ug/L	5.0	3.3	
Methyl iodide	B109445-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B109445-BLK1	ND	ug/L	5.0	2.4	
Methyl methacrylate	B109445-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B109445-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B109445-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B109445-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B109445-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B109445-BLK1	ND	ug/L	0.50	0.13	
<b>1,2-Dichloroethane-d4 (Surrogate)</b>	<b>B109445-BLK1</b>	<b>101</b>	<b>%</b>	<b>75 - 125 (LCL - UCL)</b>		
<b>Toluene-d8 (Surrogate)</b>	<b>B109445-BLK1</b>	<b>101</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		
<b>4-Bromofluorobenzene (Surrogate)</b>	<b>B109445-BLK1</b>	<b>97.1</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		

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**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
<b>QC Batch ID: B109445</b>										
Benzene	B109445-BS1	LCS	22.310	25.000	ug/L	89.2		70 - 130		
Bromodichloromethane	B109445-BS1	LCS	27.750	25.000	ug/L	111		70 - 130		
Chlorobenzene	B109445-BS1	LCS	24.250	25.000	ug/L	97.0		70 - 130		
Chloroethane	B109445-BS1	LCS	23.470	25.000	ug/L	93.9		70 - 130		
1,4-Dichlorobenzene	B109445-BS1	LCS	24.150	25.000	ug/L	96.6		70 - 130		
1,1-Dichloroethane	B109445-BS1	LCS	24.610	25.000	ug/L	98.4		70 - 130		
1,1-Dichloroethene	B109445-BS1	LCS	26.990	25.000	ug/L	108		70 - 130		
Toluene	B109445-BS1	LCS	24.790	25.000	ug/L	99.2		70 - 130		
Trichloroethene	B109445-BS1	LCS	24.510	25.000	ug/L	98.0		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B109445-BS1	LCS	10.770	10.000	ug/L	108		75 - 125		
Toluene-d8 (Surrogate)	B109445-BS1	LCS	10.320	10.000	ug/L	103		80 - 120		
4-Bromofluorobenzene (Surrogate)	B109445-BS1	LCS	10.230	10.000	ug/L	102		80 - 120		

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Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: B109445</b>		Used client sample: Y - Description: MW-4-3, 05/19/2021 10:30								
Benzene	MS	2116093-04	ND	22.930	25.000	ug/L		91.7		70 - 130
	MSD	2116093-04	ND	23.400	25.000	ug/L	2.0	93.6	20	70 - 130
Bromodichloromethane	MS	2116093-04	ND	27.720	25.000	ug/L		111		70 - 130
	MSD	2116093-04	ND	28.100	25.000	ug/L	1.4	112	20	70 - 130
Chlorobenzene	MS	2116093-04	ND	24.670	25.000	ug/L		98.7		70 - 130
	MSD	2116093-04	ND	25.180	25.000	ug/L	2.0	101	20	70 - 130
Chloroethane	MS	2116093-04	ND	23.470	25.000	ug/L		93.9		70 - 130
	MSD	2116093-04	ND	23.300	25.000	ug/L	0.7	93.2	20	70 - 130
1,4-Dichlorobenzene	MS	2116093-04	ND	25.110	25.000	ug/L		100		70 - 130
	MSD	2116093-04	ND	25.170	25.000	ug/L	0.2	101	20	70 - 130
1,1-Dichloroethane	MS	2116093-04	ND	24.860	25.000	ug/L		99.4		70 - 130
	MSD	2116093-04	ND	25.100	25.000	ug/L	1.0	100	20	70 - 130
1,1-Dichloroethene	MS	2116093-04	ND	27.300	25.000	ug/L		109		70 - 130
	MSD	2116093-04	ND	27.620	25.000	ug/L	1.2	110	20	70 - 130
Toluene	MS	2116093-04	ND	24.410	25.000	ug/L		97.6		70 - 130
	MSD	2116093-04	ND	24.620	25.000	ug/L	0.9	98.5	20	70 - 130
Trichloroethene	MS	2116093-04	0.24000	24.980	25.000	ug/L		99.0		70 - 130
	MSD	2116093-04	0.24000	25.160	25.000	ug/L	0.7	99.7	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	2116093-04	ND	10.880	10.000	ug/L		109		75 - 125
	MSD	2116093-04	ND	10.660	10.000	ug/L	2.0	107		75 - 125
Toluene-d8 (Surrogate)	MS	2116093-04	ND	9.8200	10.000	ug/L		98.2		80 - 120
	MSD	2116093-04	ND	9.9500	10.000	ug/L	1.3	99.5		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	2116093-04	ND	10.310	10.000	ug/L		103		80 - 120
	MSD	2116093-04	ND	10.600	10.000	ug/L	2.8	106		80 - 120

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**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2) TICs

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B109445</b>						
Chloroacetonitrile	B109445-BLK1	0	ug/L			
1-Chlorobutane	B109445-BLK1	0	ug/L			
1,1-Dichloropropanone	B109445-BLK1	0	ug/L			
Methyl acrylate	B109445-BLK1	0	ug/L			
Nitrobenzene	B109445-BLK1	0	ug/L			
2-Nitropropane	B109445-BLK1	0	ug/L			

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**Project Number:** 2Q21  
**Project Manager:** David Conner

## Water Analysis (General Chemistry)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B109468</b>						
Bicarbonate	B109468-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B109468-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B109468-BLK1	ND	mg/L	4.1	4.1	
<b>QC Batch ID: B109469</b>						
Bicarbonate	B109469-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B109469-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B109469-BLK1	ND	mg/L	4.1	4.1	
<b>QC Batch ID: B109680</b>						
Chloride	B109680-BLK1	0.20700	mg/L	0.50	0.13	J
Nitrate as N	B109680-BLK1	ND	mg/L	0.10	0.024	
Sulfate	B109680-BLK1	0.22700	mg/L	1.0	0.14	J
<b>QC Batch ID: B109822</b>						
Nitrite as N	B109822-BLK1	ND	mg/L	0.050	0.010	
<b>QC Batch ID: B109859</b>						
Total Dissolved Solids @ 180 C	B109859-BLK1	ND	mg/L	6.7	3.3	
<b>QC Batch ID: B110233</b>						
Perchlorate	B110233-BLK1	ND	ug/L	4.0	0.81	
<b>QC Batch ID: B110535</b>						
Total Recoverable Calcium	B110535-BLK1	0.026111	mg/L	0.10	0.014	J
Total Recoverable Magnesium	B110535-BLK1	0.027130	mg/L	0.050	0.019	J
Total Recoverable Sodium	B110535-BLK1	ND	mg/L	0.50	0.051	
Total Recoverable Potassium	B110535-BLK1	ND	mg/L	1.0	0.10	

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Powell, OH 43065

Reported: 06/07/2021 12:48
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Table with columns: Constituent, QC Sample ID, Type, Result, Spike Level, Units, Percent Recovery, RPD, Control Limits (Percent Recovery, RPD), Lab (Quals). Includes multiple QC batches (B109468, B109469, B109680, B109822, B109859, B110233, B110535) and their respective test results.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 06/07/2021 12:48
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes QC Batch IDs B109468, B109469, B109680, B109822, B109859, B110233, and B110535.

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/07/2021 12:48  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Water Analysis (General Chemistry)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
<b>QC Batch ID: B110535</b>		Used client sample: Y - Description: MW-4-3, 05/19/2021 10:30									
Total Recoverable Magnesium	DUP	2116093-04	18.286	18.814		mg/L	2.8		20		
	MS	2116093-04	18.286	25.680	10.000	mg/L		73.9		75 - 125	Q03
	MSD	2116093-04	18.286	25.432	10.000	mg/L	1.0	71.5	20	75 - 125	Q03
Total Recoverable Sodium	DUP	2116093-04	32.497	33.244		mg/L	2.3		20		
	MS	2116093-04	32.497	39.128	10.000	mg/L		66.3		75 - 125	Q03
	MSD	2116093-04	32.497	38.670	10.000	mg/L	1.2	61.7	20	75 - 125	Q03
Total Recoverable Potassium	DUP	2116093-04	1.8025	1.8454		mg/L	2.3		20		
	MS	2116093-04	1.8025	10.367	10.000	mg/L		85.6		75 - 125	
	MSD	2116093-04	1.8025	10.365	10.000	mg/L	0.0	85.6	20	75 - 125	

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/07/2021 12:48  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B109906</b>						
Hexavalent Chromium	B109906-BLK1	ND	mg/L	0.00020	0.000020	
<b>QC Batch ID: B110353</b>						
Total Recoverable Arsenic	B110353-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B110353-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B110353-BLK1	ND	ug/L	1.0	0.10	
<b>QC Batch ID: B110535</b>						
Total Recoverable Iron	B110535-BLK1	ND	ug/L	50	30	
<b>QC Batch ID: B110537</b>						
Total Recoverable Arsenic	B110537-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B110537-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B110537-BLK1	ND	ug/L	1.0	0.10	

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/07/2021 12:48  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
<b>QC Batch ID: B109906</b>										
Hexavalent Chromium	B109906-BS1	LCS	0.020336	0.020000	mg/L	102		90 - 110		
	B109906-BSD1	LCSD	0.020232	0.020000	mg/L	101	0.5	90 - 110	10	
<b>QC Batch ID: B110353</b>										
Total Recoverable Arsenic	B110353-BS1	LCS	106.10	100.00	ug/L	106		85 - 115		
Total Recoverable Chromium	B110353-BS1	LCS	41.001	40.000	ug/L	103		85 - 115		
Total Recoverable Lead	B110353-BS1	LCS	106.61	100.00	ug/L	107		85 - 115		
<b>QC Batch ID: B110535</b>										
Total Recoverable Iron	B110535-BS1	LCS	916.01	1000.0	ug/L	91.6		85 - 115		
<b>QC Batch ID: B110537</b>										
Total Recoverable Arsenic	B110537-BS1	LCS	108.58	100.00	ug/L	109		85 - 115		
Total Recoverable Chromium	B110537-BS1	LCS	42.852	40.000	ug/L	107		85 - 115		
Total Recoverable Lead	B110537-BS1	LCS	107.28	100.00	ug/L	107		85 - 115		

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/07/2021 12:48  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Metals Analysis

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
<b>QC Batch ID: B109906</b>		Used client sample: Y - Description: MW-4-3, 05/19/2021 10:30								
Hexavalent Chromium	DUP	2116093-04	0.00051200	0.00050000		mg/L	2.4		10	
	MS	2116093-04	0.00051200	0.020202	0.020202	mg/L		97.5	90 - 110	
	MSD	2116093-04	0.00051200	0.020156	0.020202	mg/L	0.2	97.2	10	90 - 110
<b>QC Batch ID: B110353</b>		Used client sample: Y - Description: MW-4-3, 05/19/2021 10:30								
Total Recoverable Arsenic	DUP	2116093-04	0.90200	1.0840		ug/L	18.3		20	J
	MS	2116093-04	0.90200	113.90	100.00	ug/L		113	70 - 130	
	MSD	2116093-04	0.90200	110.65	100.00	ug/L	2.9	110	20	70 - 130
Total Recoverable Chromium	DUP	2116093-04	1.2930	1.3480		ug/L	4.2		20	J
	MS	2116093-04	1.2930	40.540	40.000	ug/L		98.1	70 - 130	
	MSD	2116093-04	1.2930	38.945	40.000	ug/L	4.0	94.1	20	70 - 130
Total Recoverable Lead	DUP	2116093-04	ND	ND		ug/L			20	
	MS	2116093-04	ND	104.62	100.00	ug/L		105	70 - 130	
	MSD	2116093-04	ND	101.42	100.00	ug/L	3.1	101	20	70 - 130
<b>QC Batch ID: B110535</b>		Used client sample: Y - Description: MW-4-3, 05/19/2021 10:30								
Total Recoverable Iron	DUP	2116093-04	1886.3	1923.1		ug/L	1.9		20	
	MS	2116093-04	1886.3	2765.9	1000.0	ug/L		88.0	75 - 125	
	MSD	2116093-04	1886.3	2766.5	1000.0	ug/L	0.0	88.0	20	75 - 125
<b>QC Batch ID: B110537</b>		Used client sample: Y - Description: MW-19-4, 05/19/2021 14:45								
Total Recoverable Arsenic	DUP	2116093-08	1.1500	1.8620		ug/L	47.3		20	J,A02
	MS	2116093-08	1.1500	112.82	100.00	ug/L		112	70 - 130	
	MSD	2116093-08	1.1500	111.38	100.00	ug/L	1.3	110	20	70 - 130
Total Recoverable Chromium	DUP	2116093-08	2.4770	2.5980		ug/L	4.8		20	J
	MS	2116093-08	2.4770	40.399	40.000	ug/L		94.8	70 - 130	
	MSD	2116093-08	2.4770	40.810	40.000	ug/L	1.0	95.8	20	70 - 130
Total Recoverable Lead	DUP	2116093-08	ND	ND		ug/L			20	
	MS	2116093-08	ND	101.64	100.00	ug/L		102	70 - 130	
	MSD	2116093-08	ND	100.26	100.00	ug/L	1.4	100	20	70 - 130

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/07/2021 12:48  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

**Notes And Definitions**

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A02 The difference between duplicate readings is less than the quantitation limit.
- A03 The sample concentration was more than 4 times the spike level.
- A07 Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
- A40 Initial calibration linearity criteria not met.
- Q03 Matrix spike recovery(s) was(were) not within the control limits.
- S05 The sample holding time was exceeded.
- V01 The Initial Calibration Verification (ICV) recovery is not within established control limits.
- V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.

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Date of Report: 06/07/2021

David Conner

Tidewater Inc. - Powell

3761 Attucks Drive

Powell, OH 43065

Client Project: 2Q21

BCL Project: JPL- GW Monitoring Wells-CLP

BCL Work Order: 2116254

Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 5/20/2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda

Client Service Rep

Stuart Buttram

Technical Director

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Chain of Custody Form

Resent To: **BC Laboratories, Inc.**  
 Client: **Tidewater, Inc.**  
 Attn: **David Conner**  
 Street Address: **3761 Altucks Drive**  
 City: **Powell** State: **OH** Zip: **43065**  
 Phone: **626 298 5715** Fax: **614 792 2697**  
 Email Address: **david.conner@tidew2o.net**  
 Submission #: **21-10254**

Project Description: **JPL-GW Monitoring**  
 Project Code: **2Q21**  
 Sampler (s): **Blaine Tech**  
 Location: **Headwaters**

Analysis Requested:  
 VOCs EPA 524.2  Na, Fe   
 TRM: Cr, Pb, As, Ca, Mg, K  Hexavalent Cr - 218.6 (mg/L)   
 Cl, NO<sub>3</sub>, NO<sub>2</sub>, SO<sub>4</sub>, Perch.  CO<sub>3</sub>, HCO<sub>3</sub>, Alk, TDS, pH   
 Orthophosphate 365.1  1,4 Dioxane 8270SIM  NDMA 1625M

Billing:  
 Client: **Tidewater**  
 Attn: **David Conner**  
 Address: **3761 Altucks Drive**  
 City: **Powell** State: **OH** Zip: **43065**  
 Are there any tests with holding times? less than or equal to 48 hours?  
 Yes  No  
 \*Standard Turnaround = 10

Notes:  
**M/SMSD + BPCA IV**  
**SHORT HOLDING TIME**  
**NO** **NO** **NO** **OP** **SS**  
**DO** **Cl<sub>2</sub>** **BUD** **MDEAS** **COT**

Sample #	Sample Description	Date	Time	Matrix*
-1	TB-3-052021	5/20/21	0800	L
-2	MW-14-5		0830	
-3	MW-14-4		0915	
-4	MW-14-3		1000	
-5	MU-14-2		1350	
-6	EB-3-052021		1830	
-7	MU-19-2		1920	
-8	MU-19-1			

Matrix Types: S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other  
 Turnaround # of working days:  24 Hr Rush  48 Hr Rush  3-5 Day Rush  Normal (10 - Days)  
 Lab TAT Approval: \_\_\_\_\_ \*Additional Charges May Apply

Comments:  
 PLEASE NOTE: WHICH SAMPLES TO USE FOR QC (MS/MSD) 90% Level III and 10% Level IV, data validation required; Level IV Notated on C of C  
 NOTE: ALL ANALYSIS REQUIRED TO HAVE CALIBRATION SUMMARIES (Inform QC)

Global ID: \_\_\_\_\_  
 1. Relinquished By: \_\_\_\_\_ Date: 5/20/21 Time: 1450  
 2. Relinquished By: \_\_\_\_\_ Date: 5/20/21 Time: 1940  
 3. Relinquished By: \_\_\_\_\_ Date: 5/20/21 Time: 1940

BC Laboratories, Inc. 4100 Atlas Court - Bakersfield CA 93308 (661) 327 - 4911 Fax: (661) 327 - 1918 www.bclabs.com

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 1

Submission #: 21-16254

SHIPPING INFORMATION: Fed Ex  UPS  GSO / GLS  Hand Delivery  BC Lab Field Service  Other  (Specify) \_\_\_\_\_

SHIPPING CONTAINER: Ice Chest  None  Box  Other  (Specify) \_\_\_\_\_

FREE LIQUID: YES  NO  W / S \_\_\_\_\_

Refrigerant: Ice  Blue Ice  None  Other  Comments: \_\_\_\_\_

Custody Seals: Ice Chest  Containers  None  Comments: \_\_\_\_\_

All samples received? Yes  No  All samples containers intact? Yes  No  Description(s) match COC? Yes  No

COC Received:  YES  NO

Emissivity: 0.97 Container: PE Thermometer ID: 208

Temperature: (A) 0.8 °C / (C) 0.8 °C

Date/Time: 5/20/21 1940 Analyst Init: PRE

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES		E	E	IS	E	E	E	E		
4oz / 8oz / 16oz PE UNPRES										
2oz Cr <sup>6</sup>		D	D	GH	D	D	D	D		
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 86oz		F	F	KL	F	F	F	F		
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A									
40ml VOA VIAL	ABC	ABC	ABC	A-F	ABC	ABC	ABC	ABC		
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/808/1A										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 801SM										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: \_\_\_\_\_

Sample Numbering Completed By: PRE Date/Time: 5/20/21 2318 Rev 22 04/13/21

A = Actual / C = Corrected [S:\WPDoc\WordPerfect\LAB\_DOC\FORMS\GANREC Rev 20]



Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/07/2021 13:15  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

<b>2116254-01</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> TB-3-052021 <b>Sampled By:</b> Blaine Tech of BTST	<b>Receive Date:</b> 05/20/2021 19:40 <b>Sampling Date:</b> 05/20/2021 08:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-3-052021 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

<b>2116254-02</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-14-5 <b>Sampled By:</b> Blaine Tech of BTST	<b>Receive Date:</b> 05/20/2021 19:40 <b>Sampling Date:</b> 05/20/2021 08:30 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-14-5 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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<b>2116254-03</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-14-4 <b>Sampled By:</b> Blaine Tech of BTST	<b>Receive Date:</b> 05/20/2021 19:40 <b>Sampling Date:</b> 05/20/2021 09:15 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-14-4 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/07/2021 13:15  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

<b>2116254-04</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-14-3 <b>Sampled By:</b> Blaine Tech of BTST	<b>Receive Date:</b> 05/20/2021 19:40 <b>Sampling Date:</b> 05/20/2021 10:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-14-3 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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<b>2116254-05</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-14-2 <b>Sampled By:</b> Blaine Tech of BTST	<b>Receive Date:</b> 05/20/2021 19:40 <b>Sampling Date:</b> 05/20/2021 11:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-14-2 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

<b>2116254-06</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> EB-3-052021 <b>Sampled By:</b> Blaine Tech of BTST	<b>Receive Date:</b> 05/20/2021 19:40 <b>Sampling Date:</b> 05/20/2021 13:50 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-3-052021 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/07/2021 13:15  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>2116254-07</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-19-2 <b>Sampled By:</b> Blaine Tech of BTST	<b>Receive Date:</b> 05/20/2021 19:40 <b>Sampling Date:</b> 05/20/2021 12:30 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-19-2 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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<b>2116254-08</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-19-1 <b>Sampled By:</b> Blaine Tech of BTST	<b>Receive Date:</b> 05/20/2021 19:40 <b>Sampling Date:</b> 05/20/2021 14:20 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-19-1 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/07/2021 13:15  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116254-01	<b>Client Sample Name:</b> JPL GW, TB-3-052021, 5/20/2021 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 06/07/2021 13:15
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2116254-01) and Client Sample Name (JPL GW, TB-3-052021, 5/20/2021 8:00:00AM, Blaine Tech)

Main data table with 9 columns: Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Lists various chemical constituents and their analysis results.

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/07/2021 13:15  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116254-01	<b>Client Sample Name:</b> JPL GW, TB-3-052021, 5/20/2021 8:00:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	107	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/26/21 07:00	05/26/21 12:05	MGC	MS-V5	1	B109901	EPA 524.2

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**Reported:** 06/07/2021 13:15  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116254-01	<b>Client Sample Name:</b> JPL GW, TB-3-052021, 5/20/2021 8:00:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/26/21 07:00	05/26/21	12:05	MGC	MS-V5	1	B109901	EPA 524.2

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Powell, OH 43065

Reported: 06/07/2021 13:15  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116254-02	<b>Client Sample Name:</b> JPL GW, MW-14-5, 5/20/2021 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 06/07/2021 13:15
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2116254-02) and Client Sample Name (JPL GW, MW-14-5, 5/20/2021 8:30:00AM, Blaine Tech)

Main data table with columns: Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Lists various chemical constituents and their analysis results.

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**Reported:** 06/07/2021 13:15  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116254-02	<b>Client Sample Name:</b> JPL GW, MW-14-5, 5/20/2021 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/26/21 07:00	05/26/21 12:29	MGC	MS-V5	1	B109901	EPA 524.2

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**Reported:** 06/07/2021 13:15  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116254-02	<b>Client Sample Name:</b> JPL GW, MW-14-5, 5/20/2021 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/26/21 07:00	05/26/21	12:29	MGC	MS-V5	1	B109901	EPA 524.2

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Powell, OH 43065

Reported: 06/07/2021 13:15
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows 1-7 detailing sample preparation and analysis parameters.

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**Reported:** 06/07/2021 13:15  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116254-02	<b>Client Sample Name:</b> JPL GW, MW-14-5, 5/20/2021 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00030	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Arsenic	1.2	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	0.57	ug/L	3.0	0.50	EPA-200.8	ND	J	3
Total Recoverable Iron	52	ug/L	50	30	EPA-200.7	ND		4
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		3

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	05/25/21 14:00	05/25/21 15:22		KB1	IC-4	1	B109989	No Prep
2	EPA-200.8	06/02/21 09:55	06/03/21 11:00		ARD	PE-EL4	1	B110598	EPA 200.2
3	EPA-200.8	06/02/21 09:55	06/02/21 22:19		KHS	PE-EL2	1	B110598	EPA 200.2
4	EPA-200.7	06/02/21 10:50	06/02/21 17:07		JRG	PE-OP4	1	B110626	EPA 200.2

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3761 Attucks Drive  
Powell, OH 43065

Reported: 06/07/2021 13:15  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116254-03	<b>Client Sample Name:</b> JPL GW, MW-14-4, 5/20/2021 9:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Chloroform</b>	<b>0.14</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	ND	J	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

**Reported:** 06/07/2021 13:15  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116254-03	<b>Client Sample Name:</b> JPL GW, MW-14-4, 5/20/2021 9:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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Powell, OH 43065

**Reported:** 06/07/2021 13:15  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116254-03	<b>Client Sample Name:</b> JPL GW, MW-14-4, 5/20/2021 9:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/26/21 07:00	05/26/21 12:53	MGC	MS-V5	1	B109901	EPA 524.2

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Powell, OH 43065

**Reported:** 06/07/2021 13:15  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116254-03	<b>Client Sample Name:</b> JPL GW, MW-14-4, 5/20/2021 9:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/26/21 07:00	05/26/21	12:53	MGC	MS-V5	1	B109901	EPA 524.2

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Reported: 06/07/2021 13:15  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Water Analysis (General Chemistry)

BCL Sample ID: 2116254-03		Client Sample Name: JPL GW, MW-14-4, 5/20/2021 9:15:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	67	mg/L	0.10	0.014	EPA-200.7	0.024		1	
Total Recoverable Magnesium	23	mg/L	0.050	0.019	EPA-200.7	0.024		1	
Total Recoverable Sodium	31	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	2.0	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	200	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	160	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	54	mg/L	0.50	0.13	EPA-300.0	0.14		3	
Nitrate as N	11	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	57	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	8.15	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	470	mg/L	20	10	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	4.9	ug/L	4.0	0.81	EPA-314.0	ND		7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/02/21 10:50	06/02/21 17:10		JRG	PE-OP4	1	B110626	EPA 200.2
2	SM-2320B	05/26/21 06:30	05/26/21 10:25		RML	MET-1	1	B109471	No Prep
3	EPA-300.0	05/20/21 23:00	05/21/21 04:14		ANK	IC8	1	B109675	No Prep
4	EPA-150.1	05/26/21 06:30	05/26/21 10:25		RML	MET-1	1	B109471	No Prep
5	EPA-160.1	05/24/21 17:00	05/24/21 17:00		CAD	MANUAL	2	B109881	No Prep
6	EPA-353.2	05/21/21 01:51	05/21/21 01:51		KB1	KONE-1	1	B109823	No Prep
7	EPA-314.0	05/27/21 23:00	05/28/21 01:54		SAV	IC6	1	B110316	No Prep

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Powell, OH 43065

**Reported:** 06/07/2021 13:15  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116254-03	<b>Client Sample Name:</b> JPL GW, MW-14-4, 5/20/2021 9:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0020	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	3.3	ug/L	3.0	0.50	EPA-200.8	ND		3
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		4
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		3

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	05/25/21 14:00	05/25/21 15:31		KB1	IC-4	1	B109989	No Prep
2	EPA-200.8	06/02/21 09:55	06/03/21 11:02		ARD	PE-EL4	1	B110598	EPA 200.2
3	EPA-200.8	06/02/21 09:55	06/02/21 22:21		KHS	PE-EL2	1	B110598	EPA 200.2
4	EPA-200.7	06/02/21 10:50	06/02/21 17:10		JRG	PE-OP4	1	B110626	EPA 200.2

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Powell, OH 43065

Reported: 06/07/2021 13:15  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116254-04	<b>Client Sample Name:</b> JPL GW, MW-14-3, 5/20/2021 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Chloroform</b>	<b>0.38</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
<b>1,1-Dichloroethane</b>	<b>0.24</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.15</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 06/07/2021 13:15  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116254-04	<b>Client Sample Name:</b> JPL GW, MW-14-3, 5/20/2021 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Tetrachloroethene</b>	<b>0.44</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.23</b>	<b>EPA-524.2</b>	ND	<b>J</b>	<b>1</b>
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
<b>Trichloroethene</b>	<b>0.71</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.19</b>	<b>EPA-524.2</b>	ND		<b>1</b>
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/07/2021 13:15  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116254-04	<b>Client Sample Name:</b> JPL GW, MW-14-3, 5/20/2021 10:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	91.9	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/26/21 07:00	05/26/21 09:41	MGC	MS-V5	1	B109901	EPA 524.2

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/07/2021 13:15  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116254-04	<b>Client Sample Name:</b> JPL GW, MW-14-3, 5/20/2021 10:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/26/21 07:00	05/26/21 09:41		MGC	MS-V5	1	B109901	EPA 524.2

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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 06/07/2021 13:15
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows 1-7 detailing sample preparation and analysis parameters.

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**Reported:** 06/07/2021 13:15  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116254-04	<b>Client Sample Name:</b> JPL GW, MW-14-3, 5/20/2021 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00044	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	0.60	ug/L	3.0	0.50	EPA-200.8	ND	J	3
Total Recoverable Iron	67	ug/L	50	30	EPA-200.7	ND		4
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		3

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	05/25/21 14:00	05/25/21 15:41		KB1	IC-4	1	B109989	No Prep
2	EPA-200.8	06/02/21 09:55	06/03/21 10:39		ARD	PE-EL4	1	B110598	EPA 200.2
3	EPA-200.8	06/02/21 09:55	06/02/21 22:05		KHS	PE-EL2	1	B110598	EPA 200.2
4	EPA-200.7	06/02/21 10:50	06/02/21 16:35		JRG	PE-OP4	1	B110626	EPA 200.2

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/07/2021 13:15  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2116254-05	Client Sample Name:	JPL GW, MW-14-2, 5/20/2021 11:00:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1	
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1	
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1	
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
<b>Chloroform</b>	<b>0.45</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	ND	J	1	
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1	
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1	
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1	
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	

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3761 Attucks Drive  
Powell, OH 43065

Reported: 06/07/2021 13:15  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2116254-05		Client Sample Name: JPL GW, MW-14-2, 5/20/2021 11:00:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Tetrachloroethene</b>	<b>0.29</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.23</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
<b>Trichloroethene</b>	<b>1.3</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.19</b>	<b>EPA-524.2</b>	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/07/2021 13:15  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116254-05	<b>Client Sample Name:</b> JPL GW, MW-14-2, 5/20/2021 11:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/26/21 07:00	05/26/21 13:17	MGC	MS-V5	1	B109901	EPA 524.2

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Powell, OH 43065

**Reported:** 06/07/2021 13:15  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116254-05	<b>Client Sample Name:</b> JPL GW, MW-14-2, 5/20/2021 11:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/26/21 07:00	05/26/21	13:17	MGC	MS-V5	1	B109901	EPA 524.2

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Tidewater Inc. - Powell
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Powell, OH 43065

Reported: 06/07/2021 13:15
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Lists various chemical constituents like Calcium, Magnesium, Sodium, Potassium, etc.

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Provides details for each of the 7 runs.

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Powell, OH 43065

**Reported:** 06/07/2021 13:15  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116254-05	<b>Client Sample Name:</b> JPL GW, MW-14-2, 5/20/2021 11:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00057	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Arsenic	0.83	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	0.99	ug/L	3.0	0.50	EPA-200.8	ND	J	3
Total Recoverable Iron	49	ug/L	50	30	EPA-200.7	ND	J	4
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		3

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	05/25/21 14:00	05/25/21 16:19		KB1	IC-4	1	B109989	No Prep
2	EPA-200.8	06/02/21 09:55	06/03/21 11:04		ARD	PE-EL4	1	B110598	EPA 200.2
3	EPA-200.8	06/02/21 09:55	06/02/21 22:22		KHS	PE-EL2	1	B110598	EPA 200.2
4	EPA-200.7	06/02/21 10:50	06/02/21 17:12		JRG	PE-OP4	1	B110626	EPA 200.2

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/07/2021 13:15  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2116254-06 Client Sample Name: JPL GW, EB-3-052021, 5/20/2021 1:50:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 06/07/2021 13:15  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2116254-06 Client Sample Name: JPL GW, EB-3-052021, 5/20/2021 1:50:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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Powell, OH 43065

Reported: 06/07/2021 13:15  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116254-06	<b>Client Sample Name:</b> JPL GW, EB-3-052021, 5/20/2021 1:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/26/21 07:00	05/26/21 13:42	MGC	MS-V5	1	B109901	EPA 524.2

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Powell, OH 43065

**Reported:** 06/07/2021 13:15  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116254-06	<b>Client Sample Name:</b> JPL GW, EB-3-052021, 5/20/2021 1:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/26/21 07:00	05/26/21	13:42	MGC	MS-V5	1	B109901	EPA 524.2

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Reported: 06/07/2021 13:15  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Water Analysis (General Chemistry)

BCL Sample ID: 2116254-06		Client Sample Name: JPL GW, EB-3-052021, 5/20/2021 1:50:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	0.076	mg/L	0.10	0.014	EPA-200.7	0.024	J	1
Total Recoverable Magnesium	0.035	mg/L	0.050	0.019	EPA-200.7	0.024	J	1
Total Recoverable Sodium	0.24	mg/L	0.50	0.051	EPA-200.7	ND	J	1
Total Recoverable Potassium	ND	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	ND	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	0.17	mg/L	0.50	0.13	EPA-300.0	0.14	J	3
Nitrate as N	ND	mg/L	0.10	0.024	EPA-300.0	ND		3
Sulfate	ND	mg/L	1.0	0.14	EPA-300.0	ND		3
pH	6.22	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	4.7	mg/L	6.7	3.3	EPA-160.1	ND	J	5
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/02/21 10:50	06/02/21 17:14		JRG	PE-OP4	1	B110626	EPA 200.2
2	SM-2320B	05/26/21 06:30	05/26/21 11:18		RML	MET-1	1	B109472	No Prep
3	EPA-300.0	05/20/21 23:00	05/21/21 05:36		ANK	IC8	1	B109675	No Prep
4	EPA-150.1	05/26/21 06:30	05/26/21 11:18		RML	MET-1	1	B109472	No Prep
5	EPA-160.1	05/24/21 17:00	05/24/21 17:00		CAD	MANUAL	0.667	B109881	No Prep
6	EPA-353.2	05/21/21 01:51	05/21/21 01:55		KB1	KONE-1	1	B109823	No Prep
7	EPA-314.0	05/27/21 23:00	05/28/21 02:56		SAV	IC6	1	B110316	No Prep

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Powell, OH 43065

**Reported:** 06/07/2021 13:15  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116254-06	<b>Client Sample Name:</b> JPL GW, EB-3-052021, 5/20/2021 1:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000095	mg/L	0.00020	0.000020	EPA-218.6	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	0.70	ug/L	3.0	0.50	EPA-200.8	ND	J	3
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		4
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		3

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	05/25/21 14:00	05/25/21 16:48		KB1	IC-4	1	B109989	No Prep
2	EPA-200.8	06/02/21 09:55	06/03/21 11:05		ARD	PE-EL4	1	B110598	EPA 200.2
3	EPA-200.8	06/02/21 09:55	06/02/21 22:24		KHS	PE-EL2	1	B110598	EPA 200.2
4	EPA-200.7	06/02/21 10:50	06/02/21 17:14		JRG	PE-OP4	1	B110626	EPA 200.2

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Reported: 06/07/2021 13:15  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116254-07	<b>Client Sample Name:</b> JPL GW, MW-19-2, 5/20/2021 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Chloroform</b>	<b>0.88</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 06/07/2021 13:15  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116254-07	<b>Client Sample Name:</b> JPL GW, MW-19-2, 5/20/2021 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Tetrachloroethene</b>	<b>0.61</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.23</b>	<b>EPA-524.2</b>	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
<b>Trichloroethene</b>	<b>0.50</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.19</b>	<b>EPA-524.2</b>	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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Powell, OH 43065

**Reported:** 06/07/2021 13:15  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116254-07	<b>Client Sample Name:</b> JPL GW, MW-19-2, 5/20/2021 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	109	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/26/21 07:00	05/26/21 14:06	MGC	MS-V5	1	B109901	EPA 524.2

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Powell, OH 43065

**Reported:** 06/07/2021 13:15  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116254-07	<b>Client Sample Name:</b> JPL GW, MW-19-2, 5/20/2021 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/26/21 07:00	05/26/21	14:06	MGC	MS-V5	1	B109901	EPA 524.2

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**Reported:** 06/07/2021 13:15  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

BCL Sample ID: 2116254-07		Client Sample Name: JPL GW, MW-19-2, 5/20/2021 12:30:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	130	mg/L	0.10	0.014	EPA-200.7	0.024		1	
Total Recoverable Magnesium	46	mg/L	0.050	0.019	EPA-200.7	0.024		1	
Total Recoverable Sodium	38	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	3.1	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	300	mg/L	10	10	SM-2320B	ND	A07	2	
Carbonate	ND	mg/L	5.0	5.0	SM-2320B	ND	A07	2	
Total Alkalinity as CaCO3	250	mg/L	8.2	8.2	SM-2320B	ND	A07	2	
Chloride	140	mg/L	0.50	0.13	EPA-300.0	0.14		3	
Nitrate as N	11	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	160	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	7.60	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	790	mg/L	50	25	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	3.1	ug/L	4.0	0.81	EPA-314.0	ND	J	7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/02/21 10:50	06/02/21 17:16		JRG	PE-OP4	1	B110626	EPA 200.2
2	SM-2320B	05/26/21 06:30	05/26/21 11:24		RML	MET-1	2	B109472	No Prep
3	EPA-300.0	05/20/21 23:00	05/21/21 05:56		ANK	IC8	1	B109675	No Prep
4	EPA-150.1	05/26/21 06:30	05/26/21 11:24		RML	MET-1	1	B109472	No Prep
5	EPA-160.1	05/24/21 17:00	05/24/21 17:00		CAD	MANUAL	5	B109881	No Prep
6	EPA-353.2	05/21/21 01:51	05/21/21 01:55		KB1	KONE-1	1	B109823	No Prep
7	EPA-314.0	05/27/21 23:00	05/28/21 03:11		SAV	IC6	1	B110316	No Prep

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**Reported:** 06/07/2021 13:15  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116254-07	<b>Client Sample Name:</b> JPL GW, MW-19-2, 5/20/2021 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00087	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	2.1	ug/L	3.0	0.50	EPA-200.8	ND	J	3
Total Recoverable Iron	1300	ug/L	50	30	EPA-200.7	ND		4
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		3

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	05/25/21 14:00	05/25/21 16:57		KB1	IC-4	1	B109989	No Prep
2	EPA-200.8	06/02/21 09:55	06/03/21 11:07		ARD	PE-EL4	1	B110598	EPA 200.2
3	EPA-200.8	06/02/21 09:55	06/02/21 22:26		KHS	PE-EL2	1	B110598	EPA 200.2
4	EPA-200.7	06/02/21 10:50	06/02/21 17:16		JRG	PE-OP4	1	B110626	EPA 200.2

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Reported: 06/07/2021 13:15  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116254-08	<b>Client Sample Name:</b> JPL GW, MW-19-1, 5/20/2021 2:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Chloroform</b>	<b>0.92</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 06/07/2021 13:15  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116254-08	<b>Client Sample Name:</b> JPL GW, MW-19-1, 5/20/2021 2:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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Powell, OH 43065

**Reported:** 06/07/2021 13:15  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116254-08	<b>Client Sample Name:</b> JPL GW, MW-19-1, 5/20/2021 2:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/26/21 07:00	05/26/21 14:30	MGC	MS-V5	1	B109901	EPA 524.2

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Powell, OH 43065

**Reported:** 06/07/2021 13:15  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116254-08	<b>Client Sample Name:</b> JPL GW, MW-19-1, 5/20/2021 2:20:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/26/21 07:00	05/26/21	14:30	MGC	MS-V5	1	B109901	EPA 524.2

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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 06/07/2021 13:15
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with 9 columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with 10 columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows 1-7 detailing sample preparation and QC information.

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**Reported:** 06/07/2021 13:15  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116254-08	<b>Client Sample Name:</b> JPL GW, MW-19-1, 5/20/2021 2:20:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00015	mg/L	0.00020	0.000020	EPA-218.6	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		3
<b>Total Recoverable Iron</b>	<b>120</b>	<b>ug/L</b>	<b>50</b>	<b>30</b>	<b>EPA-200.7</b>	ND		<b>4</b>
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		3

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	05/25/21 14:00	05/25/21 17:07		KB1	IC-4	1	B109989	No Prep
2	EPA-200.8	06/02/21 09:55	06/03/21 11:09		ARD	PE-EL4	1	B110598	EPA 200.2
3	EPA-200.8	06/02/21 09:55	06/02/21 22:27		KHS	PE-EL2	1	B110598	EPA 200.2
4	EPA-200.7	06/02/21 10:50	06/02/21 17:18		JRG	PE-OP4	1	B110626	EPA 200.2

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**Reported:** 06/07/2021 13:15  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B109901</b>						
Benzene	B109901-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B109901-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B109901-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B109901-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B109901-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B109901-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B109901-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B109901-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B109901-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B109901-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B109901-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B109901-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B109901-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B109901-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B109901-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B109901-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B109901-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B109901-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B109901-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B109901-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B109901-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B109901-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B109901-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B109901-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B109901-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B109901-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B109901-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B109901-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B109901-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B109901-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B109901-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B109901-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B109901-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B109901-BLK1	ND	ug/L	0.50	0.14	

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Reported: 06/07/2021 13:15  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B109901</b>						
trans-1,3-Dichloropropene	B109901-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B109901-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B109901-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B109901-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B109901-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B109901-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B109901-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B109901-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B109901-BLK1	ND	ug/L	0.50	0.12	
Styrene	B109901-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B109901-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2,2-Tetrachloroethane	B109901-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B109901-BLK1	ND	ug/L	0.50	0.23	
Toluene	B109901-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B109901-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B109901-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B109901-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B109901-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B109901-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B109901-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B109901-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B109901-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B109901-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B109901-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B109901-BLK1	ND	ug/L	0.50	0.18	
Acetone	B109901-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B109901-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B109901-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B109901-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B109901-BLK1	ND	ug/L	2.0	2.0	
Carbon disulfide	B109901-BLK1	ND	ug/L	0.50	0.48	
trans-1,4-Dichloro-2-butene	B109901-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B109901-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B109901-BLK1	ND	ug/L	4.0	1.3	

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**Reported:** 06/07/2021 13:15  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B109901</b>						
Ethyl t-butyl ether	B109901-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B109901-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B109901-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B109901-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B109901-BLK1	ND	ug/L	5.0	3.3	
Methyl iodide	B109901-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B109901-BLK1	ND	ug/L	5.0	2.4	
Methyl methacrylate	B109901-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B109901-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B109901-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B109901-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B109901-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B109901-BLK1	ND	ug/L	0.50	0.13	
<b>1,2-Dichloroethane-d4 (Surrogate)</b>	<b>B109901-BLK1</b>	<b>96.4</b>	<b>%</b>	<b>75 - 125 (LCL - UCL)</b>		
<b>Toluene-d8 (Surrogate)</b>	<b>B109901-BLK1</b>	<b>99.3</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		
<b>4-Bromofluorobenzene (Surrogate)</b>	<b>B109901-BLK1</b>	<b>103</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		

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**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
<b>QC Batch ID: B109901</b>										
Benzene	B109901-BS1	LCS	22.910	25.000	ug/L	91.6		70 - 130		
Bromodichloromethane	B109901-BS1	LCS	23.190	25.000	ug/L	92.8		70 - 130		
Chlorobenzene	B109901-BS1	LCS	25.170	25.000	ug/L	101		70 - 130		
Chloroethane	B109901-BS1	LCS	23.950	25.000	ug/L	95.8		70 - 130		
1,4-Dichlorobenzene	B109901-BS1	LCS	24.740	25.000	ug/L	99.0		70 - 130		
1,1-Dichloroethane	B109901-BS1	LCS	23.960	25.000	ug/L	95.8		70 - 130		
1,1-Dichloroethene	B109901-BS1	LCS	26.510	25.000	ug/L	106		70 - 130		
Toluene	B109901-BS1	LCS	23.890	25.000	ug/L	95.6		70 - 130		
Trichloroethene	B109901-BS1	LCS	24.160	25.000	ug/L	96.6		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B109901-BS1	LCS	9.9100	10.000	ug/L	99.1		75 - 125		
Toluene-d8 (Surrogate)	B109901-BS1	LCS	9.7200	10.000	ug/L	97.2		80 - 120		
4-Bromofluorobenzene (Surrogate)	B109901-BS1	LCS	10.210	10.000	ug/L	102		80 - 120		

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Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: B109901</b>		Used client sample: Y - Description: MW-14-3, 05/20/2021 10:00								
Benzene	MS	2116254-04	ND	21.940	25.000	ug/L		87.8		70 - 130
	MSD	2116254-04	ND	22.310	25.000	ug/L	1.7	89.2	20	70 - 130
Bromodichloromethane	MS	2116254-04	ND	24.000	25.000	ug/L		96.0		70 - 130
	MSD	2116254-04	ND	25.440	25.000	ug/L	5.8	102	20	70 - 130
Chlorobenzene	MS	2116254-04	ND	24.390	25.000	ug/L		97.6		70 - 130
	MSD	2116254-04	ND	25.260	25.000	ug/L	3.5	101	20	70 - 130
Chloroethane	MS	2116254-04	ND	23.320	25.000	ug/L		93.3		70 - 130
	MSD	2116254-04	ND	23.410	25.000	ug/L	0.4	93.6	20	70 - 130
1,4-Dichlorobenzene	MS	2116254-04	ND	24.070	25.000	ug/L		96.3		70 - 130
	MSD	2116254-04	ND	24.920	25.000	ug/L	3.5	99.7	20	70 - 130
1,1-Dichloroethane	MS	2116254-04	0.24000	23.470	25.000	ug/L		92.9		70 - 130
	MSD	2116254-04	0.24000	23.990	25.000	ug/L	2.2	95.0	20	70 - 130
1,1-Dichloroethene	MS	2116254-04	ND	25.310	25.000	ug/L		101		70 - 130
	MSD	2116254-04	ND	25.870	25.000	ug/L	2.2	103	20	70 - 130
Toluene	MS	2116254-04	ND	24.280	25.000	ug/L		97.1		70 - 130
	MSD	2116254-04	ND	25.100	25.000	ug/L	3.3	100	20	70 - 130
Trichloroethene	MS	2116254-04	0.71000	24.640	25.000	ug/L		95.7		70 - 130
	MSD	2116254-04	0.71000	25.630	25.000	ug/L	3.9	99.7	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	2116254-04	ND	9.7100	10.000	ug/L		97.1		75 - 125
	MSD	2116254-04	ND	10.020	10.000	ug/L	3.1	100		75 - 125
Toluene-d8 (Surrogate)	MS	2116254-04	ND	10.110	10.000	ug/L		101		80 - 120
	MSD	2116254-04	ND	10.180	10.000	ug/L	0.7	102		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	2116254-04	ND	10.160	10.000	ug/L		102		80 - 120
	MSD	2116254-04	ND	10.460	10.000	ug/L	2.9	105		80 - 120

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**Reported:** 06/07/2021 13:15  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2) TICs

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B109901</b>						
Chloroacetonitrile	B109901-BLK1	0	ug/L			
1-Chlorobutane	B109901-BLK1	0	ug/L			
1,1-Dichloropropanone	B109901-BLK1	0	ug/L			
Methyl acrylate	B109901-BLK1	0	ug/L			
Nitrobenzene	B109901-BLK1	0	ug/L			
2-Nitropropane	B109901-BLK1	0	ug/L			

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**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B109471</b>						
Bicarbonate	B109471-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B109471-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B109471-BLK1	ND	mg/L	4.1	4.1	
<b>QC Batch ID: B109472</b>						
Bicarbonate	B109472-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B109472-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B109472-BLK1	ND	mg/L	4.1	4.1	
<b>QC Batch ID: B109675</b>						
Chloride	B109675-BLK1	0.13500	mg/L	0.50	0.13	J
Nitrate as N	B109675-BLK1	ND	mg/L	0.10	0.024	
Sulfate	B109675-BLK1	ND	mg/L	1.0	0.14	
<b>QC Batch ID: B109823</b>						
Nitrite as N	B109823-BLK1	ND	mg/L	0.050	0.010	
<b>QC Batch ID: B109881</b>						
Total Dissolved Solids @ 180 C	B109881-BLK1	ND	mg/L	6.7	3.3	
<b>QC Batch ID: B110316</b>						
Perchlorate	B110316-BLK1	ND	ug/L	4.0	0.81	
<b>QC Batch ID: B110626</b>						
Total Recoverable Calcium	B110626-BLK1	0.024023	mg/L	0.10	0.014	J
Total Recoverable Magnesium	B110626-BLK1	0.024453	mg/L	0.050	0.019	J
Total Recoverable Sodium	B110626-BLK1	ND	mg/L	0.50	0.051	
Total Recoverable Potassium	B110626-BLK1	ND	mg/L	1.0	0.10	

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Reported: 06/07/2021 13:15  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Water Analysis (General Chemistry)

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
<b>QC Batch ID: B109471</b>										
Total Alkalinity as CaCO3	B109471-BS3	LCS	101.04	100.00	mg/L	101		90 - 110		
pH	B109471-BS2	LCS	7.0700	7.0000	pH Units	101		95 - 105		
<b>QC Batch ID: B109472</b>										
Total Alkalinity as CaCO3	B109472-BS3	LCS	100.59	100.00	mg/L	101		90 - 110		
	B109472-BSD3	LCSD	99.840	100.00	mg/L	99.8	0.7	90 - 110		10
pH	B109472-BS2	LCS	7.0700	7.0000	pH Units	101		95 - 105		
	B109472-BSD2	LCSD	7.0800	7.0000	pH Units	101	0.1	95 - 105		200
<b>QC Batch ID: B109675</b>										
Chloride	B109675-BS1	LCS	50.169	50.000	mg/L	100		90 - 110		
	B109675-BSD1	LCSD	50.470	50.000	mg/L	101	0.6	90 - 110		10
Nitrate as N	B109675-BS1	LCS	5.0440	5.0000	mg/L	101		90 - 110		
	B109675-BSD1	LCSD	5.0430	5.0000	mg/L	101	0.0	90 - 110		10
Sulfate	B109675-BS1	LCS	99.465	100.00	mg/L	99.5		90 - 110		
	B109675-BSD1	LCSD	99.619	100.00	mg/L	99.6	0.2	90 - 110		10
<b>QC Batch ID: B109823</b>										
Nitrite as N	B109823-BS1	LCS	0.48264	0.50000	mg/L	96.5		90 - 110		
	B109823-BSD1	LCSD	0.48700	0.50000	mg/L	97.4	0.9	90 - 110		10
<b>QC Batch ID: B109881</b>										
Total Dissolved Solids @ 180 C	B109881-BS1	LCS	575.00	586.00	mg/L	98.1		90 - 110		
<b>QC Batch ID: B110316</b>										
Perchlorate	B110316-BS1	LCS	9.3862	10.000	ug/L	93.9		85 - 115		
<b>QC Batch ID: B110626</b>										
Total Recoverable Calcium	B110626-BS1	LCS	9.6178	10.000	mg/L	96.2		85 - 115		
Total Recoverable Magnesium	B110626-BS1	LCS	9.0677	10.000	mg/L	90.7		85 - 115		
Total Recoverable Sodium	B110626-BS1	LCS	9.4492	10.000	mg/L	94.5		85 - 115		
Total Recoverable Potassium	B110626-BS1	LCS	9.1054	10.000	mg/L	91.1		85 - 115		

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 06/07/2021 13:15
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes QC Batch IDs B109471, B109472, B109675, B109823, B109881, B110316, and B110626.

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/07/2021 13:15  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
<b>QC Batch ID: B110626</b>		Used client sample: Y - Description: MW-14-3, 05/20/2021 10:00									
Total Recoverable Magnesium	DUP	2116254-04	41.360	42.647		mg/L	3.1		20		
	MS	2116254-04	41.360	53.109	10.000	mg/L		117		75 - 125	
	MSD	2116254-04	41.360	52.721	10.000	mg/L	0.7	114	20	75 - 125	
Total Recoverable Sodium	DUP	2116254-04	40.285	41.351		mg/L	2.6		20		
	MS	2116254-04	40.285	50.351	10.000	mg/L		101		75 - 125	
	MSD	2116254-04	40.285	49.103	10.000	mg/L	2.5	88.2	20	75 - 125	
Total Recoverable Potassium	DUP	2116254-04	2.7700	2.7046		mg/L	2.4		20		
	MS	2116254-04	2.7700	12.149	10.000	mg/L		93.8		75 - 125	
	MSD	2116254-04	2.7700	11.755	10.000	mg/L	3.3	89.8	20	75 - 125	

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/07/2021 13:15  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B109989</b>						
Hexavalent Chromium	B109989-BLK1	ND	mg/L	0.00020	0.000020	
<b>QC Batch ID: B110598</b>						
Total Recoverable Arsenic	B110598-BLK2	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B110598-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B110598-BLK1	ND	ug/L	1.0	0.10	
<b>QC Batch ID: B110626</b>						
Total Recoverable Iron	B110626-BLK1	ND	ug/L	50	30	

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/07/2021 13:15  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: B109989</b>										
Hexavalent Chromium	B109989-BS1	LCS	0.020298	0.020000	mg/L	101		90 - 110		
<b>QC Batch ID: B110598</b>										
Total Recoverable Arsenic	B110598-BS2	LCS	106.38	100.00	ug/L	106		85 - 115		
Total Recoverable Chromium	B110598-BS1	LCS	41.093	40.000	ug/L	103		85 - 115		
Total Recoverable Lead	B110598-BS1	LCS	98.265	100.00	ug/L	98.3		85 - 115		
<b>QC Batch ID: B110626</b>										
Total Recoverable Iron	B110626-BS1	LCS	893.59	1000.0	ug/L	89.4		85 - 115		

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/07/2021 13:15  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Metals Analysis

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
<b>QC Batch ID: B109989</b>		Used client sample: Y - Description: MW-14-3, 05/20/2021 10:00								
Hexavalent Chromium	DUP	2116254-04	0.00043500	0.00041500		mg/L	4.7		10	
	MS	2116254-04	0.00043500	0.019870	0.020202	mg/L		96.2		90 - 110
	MSD	2116254-04	0.00043500	0.020069	0.020202	mg/L	1.0	97.2	10	90 - 110
<b>QC Batch ID: B110598</b>		Used client sample: Y - Description: MW-14-3, 05/20/2021 10:00								
Total Recoverable Arsenic	DUP	2116254-04	ND	ND		ug/L			20	
	MS	2116254-04	ND	109.40	100.00	ug/L		109		70 - 130
	MSD	2116254-04	ND	111.38	100.00	ug/L	1.8	111	20	70 - 130
Total Recoverable Chromium	DUP	2116254-04	0.60100	ND		ug/L			20	
	MS	2116254-04	0.60100	36.676	40.000	ug/L		90.2		70 - 130
	MSD	2116254-04	0.60100	36.980	40.000	ug/L	0.8	90.9	20	70 - 130
Total Recoverable Lead	DUP	2116254-04	ND	ND		ug/L			20	
	MS	2116254-04	ND	91.751	100.00	ug/L		91.8		70 - 130
	MSD	2116254-04	ND	94.311	100.00	ug/L	2.8	94.3	20	70 - 130
<b>QC Batch ID: B110626</b>		Used client sample: Y - Description: MW-14-3, 05/20/2021 10:00								
Total Recoverable Iron	DUP	2116254-04	66.986	64.150		ug/L	4.3		20	
	MS	2116254-04	66.986	960.42	1000.0	ug/L		89.3		75 - 125
	MSD	2116254-04	66.986	939.16	1000.0	ug/L	2.2	87.2	20	75 - 125

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/07/2021 13:15  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

**Notes And Definitions**

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A03 The sample concentration was more than 4 times the spike level.
- A07 Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
- A40 Initial calibration linearity criteria not met.
- S05 The sample holding time was exceeded.
- V01 The Initial Calibration Verification (ICV) recovery is not within established control limits.
- V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.



Date of Report: 06/08/2021

David Conner

Tidewater Inc. - Powell

3761 Attucks Drive

Powell, OH 43065

Client Project: 2Q21

BCL Project: JPL- GW Monitoring Wells-CLP

BCL Work Order: 2116405

Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 5/21/2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda

Client Service Rep

Stuart Buttram

Technical Director

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Chain of Custody Form

BC Laboratories, Inc.

Page 1 of 1

21-16405

**Required Fields**

Project Description: JPL-GW Monitoring  
 Project Code: 2021  
 Sampler (s): Blaine Tech  
L. Hansen

Client: Tidewater, Inc.  
 Attn: David Conner  
 Street Address: 3761 Attucks Drive  
 City: Powell State: OH Zip: 43065  
 Phone: 626 1298 Fax: 614 792 2897  
 Email Address: david.conner@tidelco.net

Submission #: \_\_\_\_\_

Sample #	Sample Description	Date	Time	Matrix*
-1	TB-4-052121	5/21/21	0900	W
-2	MU-25-5		0930	
-3	MU-25-4		1015	
-4	MU-25-3		1030	
-5	BOR-2-2021		1100	
-6	MU-25-2		1130	
-7	MU-25-1		1406	
-8	EB-4-052121		1410	
-9	SB-1-052121		1315	
-10	MU-25-2		1440	
-11	MU-25-1			

**Analysis Requested**

Analysis	Requested
TRM: Cr, Pb, As, Ca, Mg, K	X
VOCs EPA 524.2	X
Na, Fe	X
Hexavalent Cr 6 - 218.6 (mg/L)	X
Cl, NO3, NO2, SO4, Perch.,	X
CO2, HCO3, Alk, TDS, pH	X
Orthophosphate 365.1	X
1,4 Dioxane 8270S/M	X
NDMA 1625M	X

**Billing**

Client: Tidewater  
 Attn: David Conner  
 Address: 3761 Attucks Drive  
 City: Powell State: OH Zip: 43065

Are there any tests with holding times? less than or equal to 48 hours?  
 Yes  No

\*Standard Turnaround = 10

**Notes**

CHK BY: DISTRIBUTION  
XXXXXX  
 SUB OUT

NO STORAGE HOLDING TIME  
 (C) (NO) (OP) (SS)  
 DO Cl2 BOB MBAS COT

**Matrix Types:** S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other

Turnaround # of working days:  24 Hr Rush  48 Hr Rush  3-5 Day Rush  Normal (10 - Days)

Lab TAT Approval: \_\_\_\_\_ \*Additional Charges May Apply

**Comments:**  
 PLEASE NOTATE WHICH SAMPLES TO USE FOR QC (MS/MSD)  
 90% Level III and 10% Level IV data validation required; Level IV Notated on C of C  
 NOTE: ALL ANALYSIS REQUIRED TO HAVE CALIBRATION SUMMARIES (Inform QC)

**Cost Center:**  
 1. Requisitioned By: \_\_\_\_\_ Date: 5/21/21 Time: 1510  
 2. Requisitioned By: \_\_\_\_\_ Date: 5/21/21 Time: 1410  
 3. Requisitioned By: \_\_\_\_\_ Date: 5/21/21 Time: 1410

**Global ID:**  
 1. Received By: \_\_\_\_\_ Date: 5/21/21 Time: 1510  
 2. Received By: \_\_\_\_\_ Date: 5/21/21 Time: 1410  
 3. Received By: \_\_\_\_\_ Date: 5/21/21 Time: 1410

BC Laboratories, Inc. 4100 Atlas Court - Bakersfield CA 93308 (661) 327 - 4911 Fax: (661) 327 - 1918 www.bclabs.com

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 2

Submission #: 21-16405

SHIPPING INFORMATION: Fed Ex  UPS  GSO / GLS  Hand Delivery  BC Lab Field Service  Other  (Specify) \_\_\_\_\_

SHIPPING CONTAINER: Ice Chest  None  Box  Other  (Specify) \_\_\_\_\_

FREE LIQUID: YES  NO  W / S \_\_\_\_\_

Refrigerant: Ice  Blue Ice  None  Other  Comments: \_\_\_\_\_

Custody Seals: Ice Chest  Containers  None  Comments: \_\_\_\_\_

All samples received? Yes  No  All samples containers intact? Yes  No  Description(s) match COC? Yes  No

COC Received:  YES  NO

Emissivity: 0.97 Container: PE Thermometer ID: 208 Date/Time: 5/21/21 1910

Temperature: (A) 1.0 °C / (C) 1.0 °C Analyst Init: PRE

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES		E	E	E	E	E	E	E	E	E
4oz / 8oz / 16oz PE UNPRES										
2oz Cr <sup>6</sup>		D	D	D	D	D	D	D	D	D
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / <del>8oz</del>		F	F	F	F	F	F	F	F	F
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
Pa PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A									
40ml VOA VIAL		ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/508/508A										
QT EPA 515.1/515										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 5015M										
QT EPA 5270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: \_\_\_\_\_

Sample Numbering Completed By: PRE Date/Time: 5/21/21 1940 Rev 22 06/13/21

A = Actual / C = Corrected (S:\WP\Defiled\PerfectLAB\_DOC\FORMS\54116Crev 20)



BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 Of 2

Submission #: 21-16405

SHIPPING INFORMATION: Fed Ex  UPS  GSO / GLS  Hand Delivery  BC Lab Field Service  Other  (Specify) \_\_\_\_\_

SHIPPING CONTAINER: Ice Chest  None  Box  Other  (Specify) \_\_\_\_\_

FREE LIQUID: YES  NO  W / S

Refrigerant: Ice  Blue Ice  None  Other  Comments: \_\_\_\_\_

Custody Seals: Ice Chest  Containers  None  Comments: \_\_\_\_\_

Intact? Yes  No  Intact? Yes  No

All samples received? Yes  No  All samples containers intact? Yes  No  Description(s) match COC? Yes  No

COC Received:  YES  NO

Emissivity: 0.97 Container: PE Thermometer ID: 208 Date/Time: 5/21/21 1940

Temperature: (A) 1.0 °C / (C) 1.0 °C Analyst Init: PRE

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES	E									
4oz / 8oz / 16oz PE UNPRES										
2oz Cr <sup>4+</sup>	D									
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz	F									
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	ABC									
QT EPA 1664										
PT ODDR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL - 504										
QT EPA 508/608/8081A										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: \_\_\_\_\_

Sample Numbering Completed By: PRE Date/Time: 5/21/21 1940 Rev 22 04/13/21

A = Actual / C = Corrected [5:\WPDoc\Word\PerfectLAB\_003\FORMS\SANRECrev 21]



Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

<b>2116405-01</b>	<b>COC Number:</b> --- <b>Project Number:</b> NASA/JPL <b>Sampling Location:</b> --- <b>Sampling Point:</b> TB-4-052121 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/21/2021 19:10 <b>Sampling Date:</b> 05/21/2021 08:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-4-052121 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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<b>2116405-02</b>	<b>COC Number:</b> --- <b>Project Number:</b> NASA/JPL <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-25-5 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/21/2021 19:10 <b>Sampling Date:</b> 05/21/2021 09:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-25-5 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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<b>2116405-03</b>	<b>COC Number:</b> --- <b>Project Number:</b> NASA/JPL <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-25-4 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/21/2021 19:10 <b>Sampling Date:</b> 05/21/2021 09:30 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-25-4 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>2116405-04</b>	<b>COC Number:</b> --- <b>Project Number:</b> NASA/JPL <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-25-3 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/21/2021 19:10 <b>Sampling Date:</b> 05/21/2021 10:15 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-25-3 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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<b>2116405-05</b>	<b>COC Number:</b> --- <b>Project Number:</b> NASA/JPL <b>Sampling Location:</b> --- <b>Sampling Point:</b> DUP-2-2Q21 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/21/2021 19:10 <b>Sampling Date:</b> 05/21/2021 10:30 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): DUP-2-2Q21 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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<b>2116405-06</b>	<b>COC Number:</b> --- <b>Project Number:</b> NASA/JPL <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-25-2 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/21/2021 19:10 <b>Sampling Date:</b> 05/21/2021 11:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-25-2 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>2116405-07</b>	<b>COC Number:</b> --- <b>Project Number:</b> NASA/JPL <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-25-1 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/21/2021 19:10 <b>Sampling Date:</b> 05/21/2021 11:30 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-25-1 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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<b>2116405-08</b>	<b>COC Number:</b> --- <b>Project Number:</b> NASA/JPL <b>Sampling Location:</b> --- <b>Sampling Point:</b> EB-4-052121 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/21/2021 19:10 <b>Sampling Date:</b> 05/21/2021 14:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-4-052121 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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<b>2116405-09</b>	<b>COC Number:</b> --- <b>Project Number:</b> NASA/JPL <b>Sampling Location:</b> --- <b>Sampling Point:</b> SB-1-052121 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/21/2021 19:10 <b>Sampling Date:</b> 05/21/2021 14:10 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): SB-1-052121 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>2116405-10</b>	<b>COC Number:</b> --- <b>Project Number:</b> NASA/JPL <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-3-2 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/21/2021 19:10 <b>Sampling Date:</b> 05/21/2021 13:15 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-3-2 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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<b>2116405-11</b>	<b>COC Number:</b> --- <b>Project Number:</b> NASA/JPL <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-3-1 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/21/2021 19:10 <b>Sampling Date:</b> 05/21/2021 14:40 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-3-1 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116405-01	<b>Client Sample Name:</b> NASA/JPL, TB-4-052121, 5/21/2021 8:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 06/08/2021 9:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116405-01	<b>Client Sample Name:</b> NASA/JPL, TB-4-052121, 5/21/2021 8:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116405-01	<b>Client Sample Name:</b> NASA/JPL, TB-4-052121, 5/21/2021 8:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/26/21 07:00	05/26/21	14:54	MGC	MS-V5	1	B109901	EPA 524.2

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**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116405-01	<b>Client Sample Name:</b> NASA/JPL, TB-4-052121, 5/21/2021 8:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/26/21 07:00	05/26/21	14:54	MGC	MS-V5	1	B109901	EPA 524.2

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Reported: 06/08/2021 9:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2116405-02 Client Sample Name: NASA/JPL, MW-25-5, 5/21/2021 9:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 06/08/2021 9:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116405-02	<b>Client Sample Name:</b> NASA/JPL, MW-25-5, 5/21/2021 9:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116405-02	<b>Client Sample Name:</b> NASA/JPL, MW-25-5, 5/21/2021 9:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/26/21 07:00	05/26/21 15:18	MGC	MS-V5	1	B109901	EPA 524.2

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**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116405-02	<b>Client Sample Name:</b> NASA/JPL, MW-25-5, 5/21/2021 9:00:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/26/21 07:00	05/26/21	15:18	MGC	MS-V5	1	B109901	EPA 524.2

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Reported: 06/08/2021 9:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Water Analysis (General Chemistry)

BCL Sample ID: 2116405-02		Client Sample Name: NASA/JPL, MW-25-5, 5/21/2021 9:00:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	6.4	mg/L	0.10	0.014	EPA-200.7	0.016		1	
Total Recoverable Magnesium	4.4	mg/L	0.050	0.019	EPA-200.7	0.027		2	
Total Recoverable Sodium	58	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	1.7	mg/L	1.0	0.10	EPA-200.7	ND		2	
Bicarbonate	85	mg/L	5.0	5.0	SM-2320B	ND		3	
Carbonate	8.8	mg/L	2.5	2.5	SM-2320B	ND		3	
Total Alkalinity as CaCO3	85	mg/L	4.1	4.1	SM-2320B	ND		3	
Chloride	14	mg/L	0.50	0.13	EPA-300.0	0.15		4	
Nitrate as N	ND	mg/L	0.10	0.024	EPA-300.0	ND		4	
Sulfate	54	mg/L	1.0	0.14	EPA-300.0	ND		4	
pH	8.89	pH Units	0.05	0.05	EPA-150.1		S05	5	
Total Dissolved Solids @ 180 C	250	mg/L	20	10	EPA-160.1	ND	A07	6	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	0.017		7	
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		8	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/03/21 12:45	06/03/21 17:36		JRG	PE-OP4	1	B110792	EPA 200.2
2	EPA-200.7	06/03/21 12:45	06/04/21 18:49		AK1	PE-OP4	1	B110792	EPA 200.2
3	SM-2320B	05/28/21 06:30	05/28/21 21:08		RML	MET-1	1	B109498	No Prep
4	EPA-300.0	05/21/21 19:00	05/22/21 03:09		KB1	IC8	1	B109758	No Prep
5	EPA-150.1	05/28/21 06:30	05/28/21 21:08		RML	MET-1	1	B109498	No Prep
6	EPA-160.1	05/25/21 16:00	05/25/21 16:00		CAD	MANUAL	2	B109999	No Prep
7	EPA-353.2	05/21/21 22:16	05/21/21 22:26		KB1	KONE-1	1	B109964	No Prep
8	EPA-314.0	06/02/21 01:00	06/02/21 11:30		SAV	IC6	1	B110590	No Prep

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**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116405-02	<b>Client Sample Name:</b> NASA/JPL, MW-25-5, 5/21/2021 9:00:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00031	mg/L	0.00020	0.000020	EPA-218.6	0.000024		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
<b>Total Recoverable Lead</b>	<b>0.11</b>	<b>ug/L</b>	<b>1.0</b>	<b>0.10</b>	<b>EPA-200.8</b>	ND	J	2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/01/21 12:00	06/01/21	15:30	GSP	IC-4	1	B110485	No Prep
2	EPA-200.8	06/02/21 09:55	06/02/21	22:38	KHS	PE-EL2	1	B110599	EPA 200.2
3	EPA-200.7	06/03/21 12:45	06/03/21	17:36	JRG	PE-OP4	1	B110792	EPA 200.2

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Reported: 06/08/2021 9:38
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2116405-03) and Client Sample Name (NASA/JPL, MW-25-4, 5/21/2021 9:30:00AM)

Main data table with 9 columns: Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quads, Run #. Lists various organic compounds and their detection results.

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Reported: 06/08/2021 9:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116405-03	<b>Client Sample Name:</b> NASA/JPL, MW-25-4, 5/21/2021 9:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116405-03	<b>Client Sample Name:</b> NASA/JPL, MW-25-4, 5/21/2021 9:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/26/21 07:00	05/26/21 15:42	MGC	MS-V5	1	B109901	EPA 524.2

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**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116405-03	<b>Client Sample Name:</b> NASA/JPL, MW-25-4, 5/21/2021 9:30:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/26/21 07:00	05/26/21	15:42	MGC	MS-V5	1	B109901	EPA 524.2

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Reported: 06/08/2021 9:38
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with 10 columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with 10 columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows correspond to runs 1 through 8.

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**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

BCL Sample ID: 2116405-03		Client Sample Name: NASA/JPL, MW-25-4, 5/21/2021 9:30:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00038	mg/L	0.00020	0.000020	EPA-218.6	0.000024		1
Total Recoverable Arsenic	1.7	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	1.7	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	63	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/01/21 12:00	06/01/21	16:28	GSP	IC-4	1	B110485	No Prep
2	EPA-200.8	06/02/21 09:55	06/02/21	22:56	KHS	PE-EL2	1	B110599	EPA 200.2
3	EPA-200.7	06/03/21 12:45	06/03/21	20:22	JRG	PE-OP4	1	B110792	EPA 200.2

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Powell, OH 43065

Reported: 06/08/2021 9:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2116405-04 Client Sample Name: NASA/JPL, MW-25-3, 5/21/2021 10:15:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Chloroform</b>	<b>0.33</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 06/08/2021 9:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2116405-04		Client Sample Name: NASA/JPL, MW-25-3, 5/21/2021 10:15:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Tetrachloroethene</b>	<b>1.5</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.23</b>	<b>EPA-524.2</b>	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116405-04	<b>Client Sample Name:</b> NASA/JPL, MW-25-3, 5/21/2021 10:15:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	109	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/26/21 07:00	05/26/21 16:06	MGC	MS-V5	1	B109901	EPA 524.2

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**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116405-04	<b>Client Sample Name:</b> NASA/JPL, MW-25-3, 5/21/2021 10:15:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/26/21 07:00	05/26/21	16:06	MGC	MS-V5	1	B109901	EPA 524.2

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Reported: 06/08/2021 9:38
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with 9 columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with 10 columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows correspond to the 8 runs listed in the main table.

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**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116405-04	<b>Client Sample Name:</b> NASA/JPL, MW-25-3, 5/21/2021 10:15:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0027	mg/L	0.00020	0.000020	EPA-218.6	0.000024		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	2.7	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/01/21 12:00	06/01/21 16:37		GSP	IC-4	1	B110485	No Prep
2	EPA-200.8	06/02/21 09:55	06/02/21 22:57		KHS	PE-EL2	1	B110599	EPA 200.2
3	EPA-200.7	06/03/21 12:45	06/03/21 17:56		JRG	PE-OP4	1	B110792	EPA 200.2

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Reported: 06/08/2021 9:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116405-05	<b>Client Sample Name:</b> NASA/JPL, DUP-2-2Q21, 5/21/2021 10:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Chloroform</b>	<b>0.35</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	ND	J	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 06/08/2021 9:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2116405-05		Client Sample Name: NASA/JPL, DUP-2-2Q21, 5/21/2021 10:30:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Tetrachloroethene</b>	<b>1.4</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.23</b>	<b>EPA-524.2</b>	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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Powell, OH 43065

**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116405-05	<b>Client Sample Name:</b> NASA/JPL, DUP-2-2Q21, 5/21/2021 10:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/26/21 07:00	05/26/21 16:30	MGC	MS-V5	1	B109901	EPA 524.2

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**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116405-05	<b>Client Sample Name:</b> NASA/JPL, DUP-2-2Q21, 5/21/2021 10:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/26/21 07:00	05/26/21	16:30	MGC	MS-V5	1	B109901	EPA 524.2

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Reported: 06/08/2021 9:38
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with 9 columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with 10 columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows correspond to runs 1 through 8.

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**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116405-05	<b>Client Sample Name:</b> NASA/JPL, DUP-2-2Q21, 5/21/2021 10:30:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0029	mg/L	0.00020	0.000020	EPA-218.6	0.000024		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
<b>Total Recoverable Chromium</b>	<b>2.9</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	ND	J	2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/01/21 12:00	06/01/21 16:47		GSP	IC-4	1	B110485	No Prep
2	EPA-200.8	06/02/21 09:55	06/02/21 22:59		KHS	PE-EL2	1	B110599	EPA 200.2
3	EPA-200.7	06/03/21 12:45	06/03/21 17:58		JRG	PE-OP4	1	B110792	EPA 200.2

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Reported: 06/08/2021 9:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2116405-06 Client Sample Name: NASA/JPL, MW-25-2, 5/21/2021 11:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Chloroform</b>	<b>0.14</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 06/08/2021 9:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2116405-06		Client Sample Name: NASA/JPL, MW-25-2, 5/21/2021 11:00:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Tetrachloroethene</b>	<b>0.26</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.23</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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Reported: 06/08/2021 9:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116405-06	<b>Client Sample Name:</b> NASA/JPL, MW-25-2, 5/21/2021 11:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	114	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/26/21 07:00	05/26/21 16:54	MGC	MS-V5	1	B109901	EPA 524.2

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**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116405-06	<b>Client Sample Name:</b> NASA/JPL, MW-25-2, 5/21/2021 11:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/26/21 07:00	05/26/21	16:54	MGC	MS-V5	1	B109901	EPA 524.2

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Reported: 06/08/2021 9:38
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with 10 columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quads, Run #. Lists various chemical constituents like Calcium, Magnesium, Sodium, Potassium, Bicarbonate, etc.

Table with 10 columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Provides details for each of the 8 runs.

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**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

BCL Sample ID: 2116405-06		Client Sample Name: NASA/JPL, MW-25-2, 5/21/2021 11:00:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0014	mg/L	0.00020	0.000020	EPA-218.6	0.000024		1
Total Recoverable Arsenic	0.86	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	2.3	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	95	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/01/21 12:00	06/01/21 16:57		GSP	IC-4	1	B110485	No Prep
2	EPA-200.8	06/02/21 23:20	06/03/21 08:29		ARD	PE-EL4	1	B110657	EPA 200.2
3	EPA-200.7	06/03/21 12:45	06/03/21 18:00		JRG	PE-OP4	1	B110792	EPA 200.2

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Reported: 06/08/2021 9:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116405-07	<b>Client Sample Name:</b> NASA/JPL, MW-25-1, 5/21/2021 11:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Chloroform</b>	<b>0.44</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 06/08/2021 9:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116405-07	<b>Client Sample Name:</b> NASA/JPL, MW-25-1, 5/21/2021 11:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
<b>Methyl t-butyl ether</b>	<b>0.40</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	ND	J	1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
<b>Trichloroethene</b>	<b>0.43</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.19</b>	<b>EPA-524.2</b>	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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Powell, OH 43065

**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116405-07	<b>Client Sample Name:</b> NASA/JPL, MW-25-1, 5/21/2021 11:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	113	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/26/21 07:00	05/26/21 17:18	MGC	MS-V5	1	B109901	EPA 524.2

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**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116405-07	<b>Client Sample Name:</b> NASA/JPL, MW-25-1, 5/21/2021 11:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/26/21 07:00	05/26/21	17:18	MGC	MS-V5	1	B109901	EPA 524.2

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Reported: 06/08/2021 9:38
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Lists various chemical constituents like Calcium, Magnesium, Sodium, Potassium, Bicarbonate, etc.

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Provides details for each of the 8 runs.

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**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

BCL Sample ID: 2116405-07		Client Sample Name: NASA/JPL, MW-25-1, 5/21/2021 11:30:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00039	mg/L	0.00020	0.000020	EPA-218.6	0.000024		1
Total Recoverable Arsenic	0.89	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	1.6	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	540	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/01/21 12:00	06/01/21 17:06		GSP	IC-4	1	B110485	No Prep
2	EPA-200.8	06/02/21 23:20	06/03/21 08:53		ARD	PE-EL4	1	B110657	EPA 200.2
3	EPA-200.7	06/03/21 12:45	06/03/21 18:03		JRG	PE-OP4	1	B110792	EPA 200.2

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Reported: 06/08/2021 9:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2116405-08 Client Sample Name: NASA/JPL, EB-4-052121, 5/21/2021 2:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116405-08	<b>Client Sample Name:</b> NASA/JPL, EB-4-052121, 5/21/2021 2:00:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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Powell, OH 43065

**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116405-08	<b>Client Sample Name:</b> NASA/JPL, EB-4-052121, 5/21/2021 2:00:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	113	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/26/21 07:00	05/26/21 17:42	MGC	MS-V5	1	B109901	EPA 524.2

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**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116405-08	<b>Client Sample Name:</b> NASA/JPL, EB-4-052121, 5/21/2021 2:00:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/26/21 07:00	05/26/21	17:42	MGC	MS-V5	1	B109901	EPA 524.2

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Powell, OH 43065

Reported: 06/08/2021 9:38
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with 9 columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with 10 columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows correspond to runs 1 through 8.

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**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116405-08	<b>Client Sample Name:</b> NASA/JPL, EB-4-052121, 5/21/2021 2:00:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000050	mg/L	0.00020	0.000020	EPA-218.6	0.000024	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/01/21 12:00	06/01/21	17:16	GSP	IC-4	1	B110485	No Prep
2	EPA-200.8	06/02/21 23:20	06/03/21	08:55	ARD	PE-EL4	1	B110657	EPA 200.2
3	EPA-200.7	06/03/21 12:45	06/03/21	18:05	JRG	PE-OP4	1	B110792	EPA 200.2

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**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116405-09	<b>Client Sample Name:</b> NASA/JPL, SB-1-052121, 5/21/2021 2:10:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 06/08/2021 9:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2116405-09		Client Sample Name: NASA/JPL, SB-1-052121, 5/21/2021 2:10:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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Reported: 06/08/2021 9:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116405-09	<b>Client Sample Name:</b> NASA/JPL, SB-1-052121, 5/21/2021 2:10:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	114	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	107	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/26/21 07:00	05/26/21 20:07	MGC	MS-V5	1	B109901	EPA 524.2

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**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116405-09	<b>Client Sample Name:</b> NASA/JPL, SB-1-052121, 5/21/2021 2:10:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/26/21 07:00	05/26/21	20:07	MGC	MS-V5	1	B109901	EPA 524.2

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Reported: 06/08/2021 9:38
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with 9 columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with 10 columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows 1-7 detailing sample preparation and QC information.

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**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116405-09	<b>Client Sample Name:</b> NASA/JPL, SB-1-052121, 5/21/2021 2:10:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000096	mg/L	0.00020	0.000020	EPA-218.6	0.000024	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/01/21 12:00	06/01/21	17:25	GSP	IC-4	1	B110485	No Prep
2	EPA-200.8	06/02/21 23:20	06/03/21	08:57	ARD	PE-EL4	1	B110657	EPA 200.2
3	EPA-200.7	06/03/21 12:45	06/03/21	18:39	JRG	PE-OP4	1	B110793	EPA 200.2

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Reported: 06/08/2021 9:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116405-10	<b>Client Sample Name:</b> NASA/JPL, MW-3-2, 5/21/2021 1:15:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 06/08/2021 9:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2116405-10		Client Sample Name: NASA/JPL, MW-3-2, 5/21/2021 1:15:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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Powell, OH 43065

**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116405-10	<b>Client Sample Name:</b> NASA/JPL, MW-3-2, 5/21/2021 1:15:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	113	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/26/21 07:00	05/26/21 20:32	MGC	MS-V5	1	B109901	EPA 524.2

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**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116405-10	<b>Client Sample Name:</b> NASA/JPL, MW-3-2, 5/21/2021 1:15:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/26/21 07:00	05/26/21	20:32	MGC	MS-V5	1	B109901	EPA 524.2

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Reported: 06/08/2021 9:38
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows 1-7 detailing sample preparation and analysis parameters.

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**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116405-10	<b>Client Sample Name:</b> NASA/JPL, MW-3-2, 5/21/2021 1:15:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00038	mg/L	0.00020	0.000020	EPA-218.6	0.000024		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	0.80	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	32	ug/L	50	30	EPA-200.7	ND	J	3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/01/21 12:00	06/01/21	17:35	GSP	IC-4	1	B110485	No Prep
2	EPA-200.8	06/02/21 23:20	06/03/21	08:59	ARD	PE-EL4	1	B110657	EPA 200.2
3	EPA-200.7	06/03/21 12:45	06/03/21	19:00	JRG	PE-OP4	1	B110793	EPA 200.2

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Reported: 06/08/2021 9:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116405-11	<b>Client Sample Name:</b> NASA/JPL, MW-3-1, 5/21/2021 2:40:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 06/08/2021 9:38
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Lists various chemical constituents and their analysis results.

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Reported: 06/08/2021 9:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116405-11	<b>Client Sample Name:</b> NASA/JPL, MW-3-1, 5/21/2021 2:40:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	113	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/26/21 07:00	05/26/21 20:56	MGC	MS-V5	1	B109901	EPA 524.2

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**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116405-11	<b>Client Sample Name:</b> NASA/JPL, MW-3-1, 5/21/2021 2:40:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/26/21 07:00	05/26/21	20:56	MGC	MS-V5	1	B109901	EPA 524.2

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Reported: 06/08/2021 9:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Water Analysis (General Chemistry)

BCL Sample ID: 2116405-11		Client Sample Name: NASA/JPL, MW-3-1, 5/21/2021 2:40:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	65	mg/L	0.10	0.014	EPA-200.7	0.033		1	
Total Recoverable Magnesium	21	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	25	mg/L	0.50	0.051	EPA-200.7	0.054		1	
Total Recoverable Potassium	3.0	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	280	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	230	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	18	mg/L	0.50	0.13	EPA-300.0	0.15		3	
Nitrate as N	0.57	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	39	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	7.84	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	360	mg/L	20	10	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	0.017		6	
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/03/21 12:45	06/03/21	19:02	JRG	PE-OP4	1	B110793	EPA 200.2
2	SM-2320B	06/01/21 07:00	06/01/21	08:55	RML	MET-1	1	B109501	No Prep
3	EPA-300.0	05/21/21 19:00	05/22/21	07:56	KB1	IC8	1	B109758	No Prep
4	EPA-150.1	06/01/21 07:00	06/01/21	08:55	RML	MET-1	1	B109501	No Prep
5	EPA-160.1	05/25/21 16:00	05/25/21	16:00	CAD	MANUAL	2	B109999	No Prep
6	EPA-353.2	05/21/21 22:16	05/21/21	22:30	KB1	KONE-1	1	B109964	No Prep
7	EPA-314.0	06/02/21 01:00	06/02/21	15:28	KB1	IC6	1	B110590	No Prep

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**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116405-11	<b>Client Sample Name:</b> NASA/JPL, MW-3-1, 5/21/2021 2:40:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00011	mg/L	0.00020	0.000020	EPA-218.6	0.000024	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
<b>Total Recoverable Iron</b>	<b>64</b>	<b>ug/L</b>	<b>50</b>	<b>30</b>	<b>EPA-200.7</b>	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/01/21 12:00	06/01/21	17:45	GSP	IC-4	1	B110485	No Prep
2	EPA-200.8	06/02/21 23:20	06/03/21	09:01	ARD	PE-EL4	1	B110657	EPA 200.2
3	EPA-200.7	06/03/21 12:45	06/03/21	19:02	JRG	PE-OP4	1	B110793	EPA 200.2

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**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B109901</b>						
Benzene	B109901-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B109901-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B109901-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B109901-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B109901-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B109901-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B109901-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B109901-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B109901-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B109901-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B109901-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B109901-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B109901-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B109901-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B109901-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B109901-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B109901-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B109901-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B109901-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B109901-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B109901-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B109901-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B109901-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B109901-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B109901-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B109901-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B109901-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B109901-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B109901-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B109901-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B109901-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B109901-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B109901-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B109901-BLK1	ND	ug/L	0.50	0.14	

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**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B109901</b>						
trans-1,3-Dichloropropene	B109901-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B109901-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B109901-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B109901-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B109901-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B109901-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B109901-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B109901-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B109901-BLK1	ND	ug/L	0.50	0.12	
Styrene	B109901-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B109901-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2,2-Tetrachloroethane	B109901-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B109901-BLK1	ND	ug/L	0.50	0.23	
Toluene	B109901-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B109901-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B109901-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B109901-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B109901-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B109901-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B109901-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B109901-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B109901-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B109901-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B109901-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B109901-BLK1	ND	ug/L	0.50	0.18	
Acetone	B109901-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B109901-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B109901-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B109901-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B109901-BLK1	ND	ug/L	2.0	2.0	
Carbon disulfide	B109901-BLK1	ND	ug/L	0.50	0.48	
trans-1,4-Dichloro-2-butene	B109901-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B109901-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B109901-BLK1	ND	ug/L	4.0	1.3	

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**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B109901</b>						
Ethyl t-butyl ether	B109901-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B109901-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B109901-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B109901-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B109901-BLK1	ND	ug/L	5.0	3.3	
Methyl iodide	B109901-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B109901-BLK1	ND	ug/L	5.0	2.4	
Methyl methacrylate	B109901-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B109901-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B109901-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B109901-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B109901-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B109901-BLK1	ND	ug/L	0.50	0.13	
<b>1,2-Dichloroethane-d4 (Surrogate)</b>	<b>B109901-BLK1</b>	<b>96.4</b>	<b>%</b>	<b>75 - 125 (LCL - UCL)</b>		
<b>Toluene-d8 (Surrogate)</b>	<b>B109901-BLK1</b>	<b>99.3</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		
<b>4-Bromofluorobenzene (Surrogate)</b>	<b>B109901-BLK1</b>	<b>103</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		

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**Project:** JPL- GW Monitoring Wells-CLP  
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**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
<b>QC Batch ID: B109901</b>										
Benzene	B109901-BS1	LCS	22.910	25.000	ug/L	91.6		70 - 130		
Bromodichloromethane	B109901-BS1	LCS	23.190	25.000	ug/L	92.8		70 - 130		
Chlorobenzene	B109901-BS1	LCS	25.170	25.000	ug/L	101		70 - 130		
Chloroethane	B109901-BS1	LCS	23.950	25.000	ug/L	95.8		70 - 130		
1,4-Dichlorobenzene	B109901-BS1	LCS	24.740	25.000	ug/L	99.0		70 - 130		
1,1-Dichloroethane	B109901-BS1	LCS	23.960	25.000	ug/L	95.8		70 - 130		
1,1-Dichloroethene	B109901-BS1	LCS	26.510	25.000	ug/L	106		70 - 130		
Toluene	B109901-BS1	LCS	23.890	25.000	ug/L	95.6		70 - 130		
Trichloroethene	B109901-BS1	LCS	24.160	25.000	ug/L	96.6		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B109901-BS1	LCS	9.9100	10.000	ug/L	99.1		75 - 125		
Toluene-d8 (Surrogate)	B109901-BS1	LCS	9.7200	10.000	ug/L	97.2		80 - 120		
4-Bromofluorobenzene (Surrogate)	B109901-BS1	LCS	10.210	10.000	ug/L	102		80 - 120		

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Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: B109901</b>		Used client sample: N								
Benzene	MS	2116254-04	ND	21.940	25.000	ug/L		87.8		70 - 130
	MSD	2116254-04	ND	22.310	25.000	ug/L	1.7	89.2	20	70 - 130
Bromodichloromethane	MS	2116254-04	ND	24.000	25.000	ug/L		96.0		70 - 130
	MSD	2116254-04	ND	25.440	25.000	ug/L	5.8	102	20	70 - 130
Chlorobenzene	MS	2116254-04	ND	24.390	25.000	ug/L		97.6		70 - 130
	MSD	2116254-04	ND	25.260	25.000	ug/L	3.5	101	20	70 - 130
Chloroethane	MS	2116254-04	ND	23.320	25.000	ug/L		93.3		70 - 130
	MSD	2116254-04	ND	23.410	25.000	ug/L	0.4	93.6	20	70 - 130
1,4-Dichlorobenzene	MS	2116254-04	ND	24.070	25.000	ug/L		96.3		70 - 130
	MSD	2116254-04	ND	24.920	25.000	ug/L	3.5	99.7	20	70 - 130
1,1-Dichloroethane	MS	2116254-04	0.24000	23.470	25.000	ug/L		92.9		70 - 130
	MSD	2116254-04	0.24000	23.990	25.000	ug/L	2.2	95.0	20	70 - 130
1,1-Dichloroethene	MS	2116254-04	ND	25.310	25.000	ug/L		101		70 - 130
	MSD	2116254-04	ND	25.870	25.000	ug/L	2.2	103	20	70 - 130
Toluene	MS	2116254-04	ND	24.280	25.000	ug/L		97.1		70 - 130
	MSD	2116254-04	ND	25.100	25.000	ug/L	3.3	100	20	70 - 130
Trichloroethene	MS	2116254-04	0.71000	24.640	25.000	ug/L		95.7		70 - 130
	MSD	2116254-04	0.71000	25.630	25.000	ug/L	3.9	99.7	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	2116254-04	ND	9.7100	10.000	ug/L		97.1		75 - 125
	MSD	2116254-04	ND	10.020	10.000	ug/L	3.1	100		75 - 125
Toluene-d8 (Surrogate)	MS	2116254-04	ND	10.110	10.000	ug/L		101		80 - 120
	MSD	2116254-04	ND	10.180	10.000	ug/L	0.7	102		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	2116254-04	ND	10.160	10.000	ug/L		102		80 - 120
	MSD	2116254-04	ND	10.460	10.000	ug/L	2.9	105		80 - 120

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**Project Number:** 2Q21  
**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2) TICs

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B109901</b>						
Chloroacetonitrile	B109901-BLK1	0	ug/L			
1-Chlorobutane	B109901-BLK1	0	ug/L			
1,1-Dichloropropanone	B109901-BLK1	0	ug/L			
Methyl acrylate	B109901-BLK1	0	ug/L			
Nitrobenzene	B109901-BLK1	0	ug/L			
2-Nitropropane	B109901-BLK1	0	ug/L			

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**Reported:** 06/08/2021 9:38  
Project: JPL- GW Monitoring Wells-CLP  
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Project Manager: David Conner

### Water Analysis (General Chemistry)

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B109498</b>						
Bicarbonate	B109498-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B109498-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B109498-BLK1	ND	mg/L	4.1	4.1	
<b>QC Batch ID: B109501</b>						
Bicarbonate	B109501-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B109501-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B109501-BLK1	ND	mg/L	4.1	4.1	
<b>QC Batch ID: B109758</b>						
Chloride	B109758-BLK1	0.15200	mg/L	0.50	0.13	J
Nitrate as N	B109758-BLK1	ND	mg/L	0.10	0.024	
Sulfate	B109758-BLK1	ND	mg/L	1.0	0.14	
<b>QC Batch ID: B109964</b>						
Nitrite as N	B109964-BLK1	0.016735	mg/L	0.050	0.010	J
<b>QC Batch ID: B109999</b>						
Total Dissolved Solids @ 180 C	B109999-BLK1	ND	mg/L	6.7	3.3	
<b>QC Batch ID: B110590</b>						
Perchlorate	B110590-BLK1	ND	ug/L	4.0	0.81	
<b>QC Batch ID: B110792</b>						
Total Recoverable Calcium	B110792-BLK1	0.015772	mg/L	0.10	0.014	J
Total Recoverable Magnesium	B110792-BLK2	0.026756	mg/L	0.050	0.019	J
Total Recoverable Sodium	B110792-BLK1	ND	mg/L	0.50	0.051	
Total Recoverable Potassium	B110792-BLK2	ND	mg/L	1.0	0.10	
<b>QC Batch ID: B110793</b>						
Total Recoverable Calcium	B110793-BLK1	0.033345	mg/L	0.10	0.014	J
Total Recoverable Magnesium	B110793-BLK1	ND	mg/L	0.050	0.019	
Total Recoverable Sodium	B110793-BLK1	0.054388	mg/L	0.50	0.051	J
Total Recoverable Potassium	B110793-BLK1	ND	mg/L	1.0	0.10	

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Reported: 06/08/2021 9:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Water Analysis (General Chemistry)

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits		Lab Quals
							RPD	Percent Recovery	
<b>QC Batch ID: B109498</b>									
Total Alkalinity as CaCO3	B109498-BS3	LCS	102.24	100.00	mg/L	102		90 - 110	
pH	B109498-BS2	LCS	7.0500	7.0000	pH Units	101		95 - 105	
<b>QC Batch ID: B109501</b>									
Total Alkalinity as CaCO3	B109501-BS3	LCS	92.480	100.00	mg/L	92.5		90 - 110	
pH	B109501-BS2	LCS	7.0500	7.0000	pH Units	101		95 - 105	
<b>QC Batch ID: B109758</b>									
Chloride	B109758-BS1	LCS	48.460	50.000	mg/L	96.9		90 - 110	
Nitrate as N	B109758-BS1	LCS	4.8550	5.0000	mg/L	97.1		90 - 110	
Sulfate	B109758-BS1	LCS	94.705	100.00	mg/L	94.7		90 - 110	
<b>QC Batch ID: B109964</b>									
Nitrite as N	B109964-BS1	LCS	0.48335	0.50000	mg/L	96.7		90 - 110	
<b>QC Batch ID: B109999</b>									
Total Dissolved Solids @ 180 C	B109999-BS1	LCS	595.00	586.00	mg/L	102		90 - 110	
<b>QC Batch ID: B110590</b>									
Perchlorate	B110590-BS1	LCS	10.104	10.000	ug/L	101		85 - 115	
<b>QC Batch ID: B110792</b>									
Total Recoverable Calcium	B110792-BS1	LCS	8.9129	10.000	mg/L	89.1		85 - 115	
Total Recoverable Magnesium	B110792-BS2	LCS	9.0627	10.000	mg/L	90.6		85 - 115	
Total Recoverable Sodium	B110792-BS1	LCS	8.8067	10.000	mg/L	88.1		85 - 115	
Total Recoverable Potassium	B110792-BS2	LCS	9.2518	10.000	mg/L	92.5		85 - 115	
<b>QC Batch ID: B110793</b>									
Total Recoverable Calcium	B110793-BS1	LCS	10.331	10.000	mg/L	103		85 - 115	
Total Recoverable Magnesium	B110793-BS1	LCS	9.6057	10.000	mg/L	96.1		85 - 115	
Total Recoverable Sodium	B110793-BS1	LCS	10.201	10.000	mg/L	102		85 - 115	
Total Recoverable Potassium	B110793-BS1	LCS	9.6848	10.000	mg/L	96.8		85 - 115	

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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 06/08/2021 9:38
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes QC batches B109498, B109501, B109758, B109964, B109999, B110590, and B110792.

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/08/2021 9:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Water Analysis (General Chemistry)

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
<b>QC Batch ID: B110792</b>		Used client sample: Y - Description: MW-25-4, 05/21/2021 09:30								
Total Recoverable Magnesium	DUP	2116405-03	23.473	23.323		mg/L	0.6		20	
	MS	2116405-03	23.473	32.013	10.000	mg/L		85.4		75 - 125
	MSD	2116405-03	23.473	33.378	10.000	mg/L	4.2	99.1	20	75 - 125
Total Recoverable Sodium	DUP	<b>2116405-03</b>	<b>45.161</b>	<b>45.084</b>		mg/L	<b>0.2</b>		<b>20</b>	
	MS	<b>2116405-03</b>	<b>45.161</b>	<b>51.792</b>	<b>10.000</b>	mg/L		<b>66.3</b>		<b>75 - 125</b> A03
	MSD	<b>2116405-03</b>	<b>45.161</b>	<b>52.883</b>	<b>10.000</b>	mg/L	<b>2.1</b>	<b>77.2</b>	<b>20</b>	<b>75 - 125</b>
Total Recoverable Potassium	DUP	2116405-03	2.3189	2.1541		mg/L	7.4		20	
	MS	2116405-03	2.3189	10.605	10.000	mg/L		82.9		75 - 125
	MSD	2116405-03	2.3189	11.089	10.000	mg/L	4.5	87.7	20	75 - 125
<b>QC Batch ID: B110793</b>		Used client sample: Y - Description: SB-1-052121, 05/21/2021 14:10								
Total Recoverable Calcium	DUP	2116405-09	0.033068	0.034070		mg/L	3.0		20	J
	MS	2116405-09	0.033068	10.271	10.000	mg/L		102		75 - 125
	MSD	2116405-09	0.033068	8.8861	10.000	mg/L	14.5	88.5	20	75 - 125
Total Recoverable Magnesium	DUP	2116405-09	ND	ND		mg/L			20	
	MS	2116405-09	ND	9.6328	10.000	mg/L		96.3		75 - 125
	MSD	2116405-09	ND	8.3554	10.000	mg/L	14.2	83.6	20	75 - 125
Total Recoverable Sodium	DUP	2116405-09	0.11529	0.11098		mg/L	3.8		20	J
	MS	2116405-09	0.11529	10.210	10.000	mg/L		101		75 - 125
	MSD	2116405-09	0.11529	8.9658	10.000	mg/L	13.0	88.5	20	75 - 125
Total Recoverable Potassium	DUP	2116405-09	ND	ND		mg/L			20	
	MS	2116405-09	ND	9.6869	10.000	mg/L		96.9		75 - 125
	MSD	2116405-09	ND	8.4502	10.000	mg/L	13.6	84.5	20	75 - 125

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110485</b>						
Hexavalent Chromium	B110485-BLK1	0.000024000	mg/L	0.00020	0.000020	J
<b>QC Batch ID: B110599</b>						
Total Recoverable Arsenic	B110599-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B110599-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B110599-BLK1	ND	ug/L	1.0	0.10	
<b>QC Batch ID: B110657</b>						
Total Recoverable Arsenic	B110657-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B110657-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B110657-BLK1	ND	ug/L	1.0	0.10	
<b>QC Batch ID: B110792</b>						
Total Recoverable Iron	B110792-BLK1	ND	ug/L	50	30	
<b>QC Batch ID: B110793</b>						
Total Recoverable Iron	B110793-BLK1	ND	ug/L	50	30	

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
<b>QC Batch ID: B110485</b>										
Hexavalent Chromium	B110485-BS1	LCS	0.019673	0.020000	mg/L	98.4		90 - 110		
<b>QC Batch ID: B110599</b>										
Total Recoverable Arsenic	B110599-BS1	LCS	105.36	100.00	ug/L	105		85 - 115		
Total Recoverable Chromium	B110599-BS1	LCS	41.515	40.000	ug/L	104		85 - 115		
Total Recoverable Lead	B110599-BS1	LCS	99.790	100.00	ug/L	99.8		85 - 115		
<b>QC Batch ID: B110657</b>										
Total Recoverable Arsenic	B110657-BS1	LCS	105.35	100.00	ug/L	105		85 - 115		
Total Recoverable Chromium	B110657-BS1	LCS	40.463	40.000	ug/L	101		85 - 115		
Total Recoverable Lead	B110657-BS1	LCS	104.73	100.00	ug/L	105		85 - 115		
<b>QC Batch ID: B110792</b>										
Total Recoverable Iron	B110792-BS1	LCS	852.43	1000.0	ug/L	85.2		85 - 115		
<b>QC Batch ID: B110793</b>										
Total Recoverable Iron	B110793-BS1	LCS	1012.9	1000.0	ug/L	101		85 - 115		

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/08/2021 9:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Metals Analysis

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: B110485</b>		Used client sample: Y - Description: MW-25-5, 05/21/2021 09:00								
Hexavalent Chromium	DUP	2116405-02	0.00031200	0.00032700		mg/L	4.7		10	
	MS	2116405-02	0.00031200	0.020204	0.020202	mg/L		98.5		90 - 110
	MSD	2116405-02	0.00031200	0.020153	0.020202	mg/L	0.3	98.2	10	90 - 110
<b>QC Batch ID: B110599</b>		Used client sample: Y - Description: MW-25-5, 05/21/2021 09:00								
Total Recoverable Arsenic	DUP	2116405-02	ND	0.76800		ug/L			20	J
	MS	2116405-02	ND	105.80	100.00	ug/L		106		70 - 130
	MSD	2116405-02	ND	105.54	100.00	ug/L	0.2	106	20	70 - 130
Total Recoverable Chromium	DUP	2116405-02	ND	ND		ug/L			20	
	MS	2116405-02	ND	38.976	40.000	ug/L		97.4		70 - 130
	MSD	2116405-02	ND	40.104	40.000	ug/L	2.9	100	20	70 - 130
Total Recoverable Lead	DUP	2116405-02	0.10800	0.10000		ug/L	7.7		20	J
	MS	2116405-02	0.10800	93.497	100.00	ug/L		93.4		70 - 130
	MSD	2116405-02	0.10800	93.109	100.00	ug/L	0.4	93.0	20	70 - 130
<b>QC Batch ID: B110657</b>		Used client sample: Y - Description: MW-25-2, 05/21/2021 11:00								
Total Recoverable Arsenic	DUP	2116405-06	0.86000	0.94800		ug/L	9.7		20	J
	MS	2116405-06	0.86000	116.37	100.00	ug/L		116		70 - 130
	MSD	2116405-06	0.86000	109.02	100.00	ug/L	6.5	108	20	70 - 130
Total Recoverable Chromium	DUP	2116405-06	2.3420	2.3330		ug/L	0.4		20	J
	MS	2116405-06	2.3420	43.525	40.000	ug/L		103		70 - 130
	MSD	2116405-06	2.3420	42.548	40.000	ug/L	2.3	101	20	70 - 130
Total Recoverable Lead	DUP	2116405-06	ND	ND		ug/L			20	
	MS	2116405-06	ND	105.50	100.00	ug/L		106		70 - 130
	MSD	2116405-06	ND	104.72	100.00	ug/L	0.7	105	20	70 - 130
<b>QC Batch ID: B110792</b>		Used client sample: Y - Description: MW-25-4, 05/21/2021 09:30								
Total Recoverable Iron	DUP	2116405-03	62.625	60.925		ug/L	2.8		20	
	MS	2116405-03	62.625	926.84	1000.0	ug/L		86.4		75 - 125
	MSD	2116405-03	62.625	969.24	1000.0	ug/L	4.5	90.7	20	75 - 125
<b>QC Batch ID: B110793</b>		Used client sample: Y - Description: SB-1-052121, 05/21/2021 14:10								
Total Recoverable Iron	DUP	2116405-09	ND	ND		ug/L			20	
	MS	2116405-09	ND	994.14	1000.0	ug/L		99.4		75 - 125
	MSD	2116405-09	ND	852.37	1000.0	ug/L	15.4	85.2	20	75 - 125

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/08/2021 9:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

**Notes And Definitions**

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A03 The sample concentration was more than 4 times the spike level.
- A07 Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
- A40 Initial calibration linearity criteria not met.
- S05 The sample holding time was exceeded.
- V01 The Initial Calibration Verification (ICV) recovery is not within established control limits.
- V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.

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Date of Report: 06/16/2021

David Conner

Tidewater Inc. - Powell

3761 Attucks Drive

Powell, OH 43065

Client Project: 2Q21

BCL Project: JPL- GW Monitoring Wells-CLP

BCL Work Order: 2116515

Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 5/24/2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda

Client Service Rep

Stuart Buttram

Technical Director

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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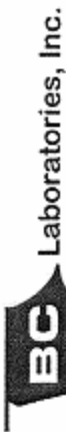


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Chain of Custody Form



Report To: Tidewater, Inc. Client: David Conner  
 Attn: David Conner  
 Street Address: 3761 Attucks Drive  
 City: Powell State: OH Zip: 43065  
 Phone: 626 1298 - 5715 Fax: 614 782 - 2897  
 Email Address: david.conner@tdih2o.net  
 Submission #: 21-16515

Project Description: JPL-GW Monitoring  
 Project Code: 2021  
 Sampler (s): Blaine Tech  
 L. HANCOCK

Analysis Requested:  
 VOCs EPA 5242  
 TRM: Cr, Pb, As, Ca, Mg, K, Na, Fe  
 Hexavalent Cr 6 - 218.6 (mg/L)  
 Cl, NO3, NO2, SO4, Perch,  
 CO3, HCO3, Alk, TDS, pH  
 Orthophosphate 365.1  
 1,4 Dioxane 8270SIM  
 NDMA 1625M

Billing:  
 Client: Tidewater  
 Attn: David Conner  
 Address: 3761 Attucks Drive  
 City: Powell State: OH Zip: 43065  
 Are there any tests with holding times? less than or equal to 48 hours?  
 Yes  No  
 \*Standard Turnaround = 10

Sample #	Sample Description	Date	Time	Matrix*
-1	TB-5-052421	5/14/21	0830	L
-2	MU-22-5	0930		
-3	MU-22-4	1000		
-4	MU-22-3	1040		
-5	MU-22-2	1115		
-6	MU-22-1	1210		
-7	MU-3-5	1345		
-8	MU-3-4	1415		
-9	MU-3-3	1445		
-10	DUP-3-2021	1500		
-11	CB-5-052421	1420		

Notes:  
 CHECK BY DISTRIBUTION  
 (Signature) SUB OUT  
 MS/MSD  
 AB-6  
 SHORT HOLDING TIME  
 (Signature) (NO) (NO) OP SS  
 DO OL BOD MEAS COT

Matrix Types: S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other  
 Turnaround # of working days:  24 Hr Rush  48 Hr Rush  3-5 Day Rush  Normal (10 - Days)  
 Lab TAT Approval: \_\_\_\_\_ \*Additional Charges May Apply

Comments:  
 PLEASE NOTATE WHICH SAMPLES TO USE FOR  
 QC (MS/MSD)  
 90% Level III and 10% Level IV data validation  
 required. Level IV Notated on C of C  
 NOTE: ALL ANALYSIS REQUIRED TO HAVE  
 CALIBRATION SUMMARIES (Inform QC)

Global ID: \_\_\_\_\_  
 1. Relinquished By: (Signature) Date: 5/14/21 Time: 1515  
 2. Reacquired By: (Signature) Date: 5/14/21 Time: 1800  
 3. Reacquired By: (Signature) Date: 5/14/21 Time: 1800

BC Laboratories, Inc. 4100 Atlas Court - Bakersfield CA 93308 (661) 327-4911 Fax: (661) 327-1918 www.bclabs.com

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 of 2

Submission #: 2116515

SHIPPING INFORMATION: Fed Ex  UPS  GSO / GLS  Hand Delivery  BC Lab Field Service  Other  (Specify) \_\_\_\_\_

SHIPPING CONTAINER: Ice Chest  None  Box  Other  (Specify) \_\_\_\_\_

FREE LIQUID: YES  NO  W / S

Refrigerant: Ice  Blue Ice  None  Other  Comments: \_\_\_\_\_

Custody Seals: Ice Chest  Containers  None  Comments: \_\_\_\_\_

All samples received? Yes  No  All samples containers intact? Yes  No  Description(s) match COC? Yes  No

COC Received: YES  NO  Emissivity: 0.97 Container: PE Thermometer ID: 208 Date/Time: 5/24/21 1800  
 Temperature: (A) 2.5 °C / (C) 2.5 °C Analyst Init: GISP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES		E	E	E	LD	E	E	E	E	E
4oz / 8oz / 16oz PE UNPRES										
2oz Cr <sup>6+</sup>		D	D	D	GH	D	D	D	D	D
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz		F	F	F	KL	F	F	F	F	F
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A									
40ml VOA VIAL		ABC	ABC	ABC	A→F	ABC	ABC	ABC	ABC	ABC
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/808/1A										
QT EPA 515.1M150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: \_\_\_\_\_

Sample Numbering Completed By: GISP Date/Time: 5/24/21 1907 Rev 22 04/13/21



BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 of 2

Submission #: 2116515

SHIPPING INFORMATION: Fed Ex  UPS  GSO / GLS  Hand Delivery  BC Lab Field Service  Other  (Specify) \_\_\_\_\_

SHIPPING CONTAINER: Ice Chest  None  Box  Other  (Specify) \_\_\_\_\_

FREE LIQUID: YES  NO  W / S \_\_\_\_\_

Refrigerant: Ice  Blue Ice  None  Other  Comments: \_\_\_\_\_

Custody Seals:  Containers  None  Comments: \_\_\_\_\_

All samples received? Yes  No  All samples containers intact? Yes  No  Description(s) match COC? Yes  No

COC Received: YES  NO  Emissivity: 0.97 Container: PE Thermometer ID: 208 Date/Time: 5/24/21 1800

Temperature: (A) 2.5 °C / (C) 2.5 °C Analyst Init: GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES	E									
4oz / 8oz / 16oz PE UNPRES										
2oz Cr <sup>6+</sup>	D									
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz	F									
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	ABC									
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/808/1A										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: \_\_\_\_\_

Sample Numbering Completed By: GSP Date/Time: 5/24/21 1907 Rev 22 04/13/21

A = Actual / C = Corrected



Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>2116515-01</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL- GW Monitoring Wells <b>Sampling Location:</b> --- <b>Sampling Point:</b> TB-5-052421 <b>Sampled By:</b> Blaine Tech - L. Henderson of BTST	<b>Receive Date:</b> 05/24/2021 18:00 <b>Sampling Date:</b> 05/24/2021 08:30 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-5-052421 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>2116515-02</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL- GW Monitoring Wells <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-22-5 <b>Sampled By:</b> Blaine Tech - L. Henderson of BTST	<b>Receive Date:</b> 05/24/2021 18:00 <b>Sampling Date:</b> 05/24/2021 09:30 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-22-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>2116515-03</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL- GW Monitoring Wells <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-22-4 <b>Sampled By:</b> Blaine Tech - L. Henderson of BTST	<b>Receive Date:</b> 05/24/2021 18:00 <b>Sampling Date:</b> 05/24/2021 10:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-22-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>2116515-04</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL- GW Monitoring Wells <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-22-3 <b>Sampled By:</b> Blaine Tech - L. Henderson of BTST	<b>Receive Date:</b> 05/24/2021 18:00 <b>Sampling Date:</b> 05/24/2021 10:40 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-22-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>2116515-05</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL- GW Monitoring Wells <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-22-2 <b>Sampled By:</b> Blaine Tech - L. Henderson of BTST	<b>Receive Date:</b> 05/24/2021 18:00 <b>Sampling Date:</b> 05/24/2021 11:15 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-22-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>2116515-06</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL- GW Monitoring Wells <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-22-1 <b>Sampled By:</b> Blaine Tech - L. Henderson of BTST	<b>Receive Date:</b> 05/24/2021 18:00 <b>Sampling Date:</b> 05/24/2021 12:10 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-22-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>2116515-07</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL- GW Monitoring Wells <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-3-5 <b>Sampled By:</b> Blaine Tech - L. Henderson of BTST	<b>Receive Date:</b> 05/24/2021 18:00 <b>Sampling Date:</b> 05/24/2021 13:45 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-3-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>2116515-08</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL- GW Monitoring Wells <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-3-4 <b>Sampled By:</b> Blaine Tech - L. Henderson of BTST	<b>Receive Date:</b> 05/24/2021 18:00 <b>Sampling Date:</b> 05/24/2021 14:15 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-3-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>2116515-09</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL- GW Monitoring Wells <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-3-3 <b>Sampled By:</b> Blaine Tech - L. Henderson of BTST	<b>Receive Date:</b> 05/24/2021 18:00 <b>Sampling Date:</b> 05/24/2021 14:45 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-3-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>2116515-10</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL- GW Monitoring Wells <b>Sampling Location:</b> --- <b>Sampling Point:</b> DUP-3-2Q21 <b>Sampled By:</b> Blaine Tech - L. Henderson of BTST	<b>Receive Date:</b> 05/24/2021 18:00 <b>Sampling Date:</b> 05/24/2021 15:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): DUP-3-2Q21 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>2116515-11</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL- GW Monitoring Wells <b>Sampling Location:</b> --- <b>Sampling Point:</b> EB-5-052421 <b>Sampled By:</b> Blaine Tech - L. Henderson of BTST	<b>Receive Date:</b> 05/24/2021 18:00 <b>Sampling Date:</b> 05/24/2021 14:20 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-5-052421 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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3761 Attucks Drive  
Powell, OH 43065

Reported: 06/16/2021 17:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116515-01	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, TB-5-052421, 5/24/2021 8:30:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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3761 Attucks Drive  
Powell, OH 43065

Reported: 06/16/2021 17:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116515-01	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, TB-5-052421, 5/24/2021 8:30:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116515-01	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, TB-5-052421, 5/24/2021 8:30:00AM, Blaine Tech - L. Henderson
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/27/21 07:00	05/27/21 08:56	MGC	MS-V5	1	B110179	EPA 524.2

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**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116515-01	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, TB-5-052421, 5/24/2021 8:30:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/27/21 07:00	05/27/21 08:56		MGC	MS-V5	1	B110179	EPA 524.2

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**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2116515-02	Client Sample Name:	JPL- GW Monitoring Wells, MW-22-5, 5/24/2021 9:30:00AM, Blaine Tech - L. Henderson						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1	
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1	
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1	
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1	
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1	
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1	
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/16/2021 17:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116515-02	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, MW-22-5, 5/24/2021 9:30:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
<b>Carbon disulfide</b>	<b>0.51</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.48</b>	<b>EPA-524.2</b>	ND		<b>1</b>
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116515-02	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, MW-22-5, 5/24/2021 9:30:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/27/21 07:00	05/27/21 09:20	MGC	MS-V5	1	B110179	EPA 524.2

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116515-02	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, MW-22-5, 5/24/2021 9:30:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/27/21 07:00	05/27/21 09:20	MGC	MS-V5	1	B110179	EPA 524.2

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Tidewater Inc. - Powell  
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Powell, OH 43065

Reported: 06/16/2021 17:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Water Analysis (General Chemistry)

BCL Sample ID:	2116515-02	Client Sample Name:	JPL- GW Monitoring Wells, MW-22-5, 5/24/2021 9:30:00AM, Blaine Tech - L. Henderson						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	6.4	mg/L	0.10	0.014	EPA-200.7	0.017		1	
Total Recoverable Magnesium	1.4	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	68	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	0.65	mg/L	1.0	0.10	EPA-200.7	ND	J	1	
Bicarbonate	83	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	18	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	97	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	7.6	mg/L	0.50	0.13	EPA-300.0	ND		3	
Nitrate as N	ND	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	39	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	9.03	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	240	mg/L	20	10	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/04/21 12:30	06/07/21 16:14		AK1	PE-OP4	1	B110915	EPA 200.2
2	SM-2320B	05/26/21 06:30	05/26/21 23:30		RML	MET-1	1	B109479	No Prep
3	EPA-300.0	05/24/21 23:50	05/25/21 04:20		ANK	IC2	1	B109915	No Prep
4	EPA-150.1	05/26/21 06:30	05/26/21 23:30		RML	MET-1	1	B109479	No Prep
5	EPA-160.1	05/26/21 12:00	05/26/21 12:00		CAD	MANUAL	2	B110096	No Prep
6	EPA-353.2	05/25/21 08:42	05/25/21 08:43		MC1	KONE-1	1	B110059	No Prep
7	EPA-314.0	06/03/21 01:00	06/03/21 10:29		ANK	IC6	1	B110698	No Prep

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Powell, OH 43065

**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116515-02	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, MW-22-5, 5/24/2021 9:30:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00020	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
<b>Total Recoverable Lead</b>	<b>0.11</b>	<b>ug/L</b>	<b>1.0</b>	<b>0.10</b>	<b>EPA-200.8</b>	ND	J	2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/01/21 18:00	06/02/21 07:59		SAV	IC-4	1	B110567	No Prep
2	EPA-200.8	06/03/21 10:35	06/03/21 15:35		EAR	PE-EL4	1	B110755	EPA 200.2
3	EPA-200.7	06/04/21 12:30	06/07/21 16:14		AK1	PE-OP4	1	B110915	EPA 200.2

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Powell, OH 43065

Reported: 06/16/2021 17:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116515-03	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, MW-22-4, 5/24/2021 10:00:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 06/16/2021 17:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116515-03	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, MW-22-4, 5/24/2021 10:00:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116515-03	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, MW-22-4, 5/24/2021 10:00:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/27/21 07:00	05/27/21 09:44	MGC	MS-V5	1	B110179	EPA 524.2

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Powell, OH 43065

**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116515-03	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, MW-22-4, 5/24/2021 10:00:00AM, Blaine Tech - L. Henderson
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/27/21 07:00	05/27/21	09:44	MGC	MS-V5	1	B110179	EPA 524.2

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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 06/16/2021 17:38
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows 1-7 corresponding to the main analysis table.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116515-03	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, MW-22-4, 5/24/2021 10:00:00AM, Blaine Tech - L. Henderson
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0017	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Arsenic	0.70	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	2.6	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/01/21 18:00	06/02/21	08:09	SAV	IC-4	1	B110567	No Prep
2	EPA-200.8	06/03/21 10:35	06/03/21	15:56	EAR	PE-EL4	1	B110755	EPA 200.2
3	EPA-200.7	06/04/21 12:30	06/07/21	16:17	AK1	PE-OP4	1	B110915	EPA 200.2

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Powell, OH 43065

Reported: 06/16/2021 17:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116515-04	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, MW-22-3, 5/24/2021 10:40:00AM, Blaine Tech - L. Henderson
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116515-04	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, MW-22-3, 5/24/2021 10:40:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116515-04	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, MW-22-3, 5/24/2021 10:40:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	111	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/27/21 07:00	05/27/21 10:07	MGC	MS-V5	1	B110179	EPA 524.2

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Powell, OH 43065

**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116515-04	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, MW-22-3, 5/24/2021 10:40:00AM, Blaine Tech - L. Henderson
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/27/21 07:00	05/27/21	10:07	MGC	MS-V5	1	B110179	EPA 524.2

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Powell, OH 43065

Reported: 06/16/2021 17:38
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with 9 columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with 10 columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows correspond to runs 1 through 7.

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**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116515-04	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, MW-22-3, 5/24/2021 10:40:00AM, Blaine Tech - L. Henderson
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0013	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	1.6	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/01/21 18:00	06/02/21 08:18		SAV	IC-4	1	B110567	No Prep
2	EPA-200.8	06/03/21 10:35	06/03/21 15:58		EAR	PE-EL4	1	B110755	EPA 200.2
3	EPA-200.7	06/04/21 12:30	06/07/21 16:19		AK1	PE-OP4	1	B110915	EPA 200.2

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/16/2021 17:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116515-05	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, MW-22-2, 5/24/2021 11:15:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/16/2021 17:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116515-05	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, MW-22-2, 5/24/2021 11:15:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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3761 Attucks Drive  
Powell, OH 43065

Reported: 06/16/2021 17:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116515-05	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, MW-22-2, 5/24/2021 11:15:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/27/21 07:00	05/27/21 08:32	MGC	MS-V5	1	B110179	EPA 524.2

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Powell, OH 43065

**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116515-05	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, MW-22-2, 5/24/2021 11:15:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/27/21 07:00	05/27/21	08:32	MGC	MS-V5	1	B110179	EPA 524.2

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Powell, OH 43065

**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

BCL Sample ID: 2116515-05		Client Sample Name: JPL- GW Monitoring Wells, MW-22-2, 5/24/2021 11:15:00AM, Blaine Tech - L. Henderson							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	57	mg/L	0.10	0.014	EPA-200.7	0.017		1	
Total Recoverable Magnesium	21	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	31	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	2.0	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	230	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	190	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	44	mg/L	0.50	0.13	EPA-300.0	ND		3	
Nitrate as N	7.7	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	45	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	8.23	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	440	mg/L	20	10	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	2.7	ug/L	4.0	0.81	EPA-314.0	ND	J	7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/04/21 12:30	06/07/21 16:21		AK1	PE-OP4	1	B110915	EPA 200.2
2	SM-2320B	05/26/21 06:30	05/26/21 22:39		RML	MET-1	1	B109479	No Prep
3	EPA-300.0	05/24/21 23:50	05/25/21 02:58		ANK	IC2	1	B109915	No Prep
4	EPA-150.1	05/26/21 06:30	05/26/21 22:39		RML	MET-1	1	B109479	No Prep
5	EPA-160.1	05/26/21 12:00	05/26/21 12:00		CAD	MANUAL	2	B110096	No Prep
6	EPA-353.2	05/25/21 08:42	05/25/21 08:42		MC1	KONE-1	1	B110059	No Prep
7	EPA-314.0	06/03/21 01:00	06/03/21 09:27		ANK	IC6	1	B110698	No Prep

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**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116515-05	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, MW-22-2, 5/24/2021 11:15:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0021	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	1.5	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/01/21 18:00	06/02/21 08:28		SAV	IC-4	1	B110567	No Prep
2	EPA-200.8	06/03/21 10:35	06/03/21 16:00		EAR	PE-EL4	1	B110755	EPA 200.2
3	EPA-200.7	06/04/21 12:30	06/07/21 16:21		AK1	PE-OP4	1	B110915	EPA 200.2

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Reported: 06/16/2021 17:38
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2116515-06) and Client Sample Name (JPL- GW Monitoring Wells, MW-22-1, 5/24/2021 12:10:00PM, Blaine Tech - L. Henderson)

Main data table with columns: Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quads, Run #. Lists various chemical compounds and their detection results.

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Reported: 06/16/2021 17:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116515-06	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, MW-22-1, 5/24/2021 12:10:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
<b>Trichloroethene</b>	<b>0.40</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.19</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Powell, OH 43065

**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116515-06	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, MW-22-1, 5/24/2021 12:10:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	110	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/27/21 07:00	05/27/21 10:32	MGC	MS-V5	1	B110179	EPA 524.2

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116515-06	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, MW-22-1, 5/24/2021 12:10:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/27/21 07:00	05/27/21	10:32	MGC	MS-V5	1	B110179	EPA 524.2

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3761 Attucks Drive
Powell, OH 43065

Reported: 06/16/2021 17:38
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Lists various chemical constituents like Calcium, Magnesium, Sodium, Potassium, etc.

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Provides details for each of the 7 runs.

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Tidewater Inc. - Powell  
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Powell, OH 43065

**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116515-06	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, MW-22-1, 5/24/2021 12:10:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00073	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	0.67	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	250	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/01/21 18:00	06/02/21	09:06	SAV	IC-4	1	B110567	No Prep
2	EPA-200.8	06/03/21 10:35	06/03/21	16:02	EAR	PE-EL4	1	B110755	EPA 200.2
3	EPA-200.7	06/04/21 12:30	06/07/21	16:23	AK1	PE-OP4	1	B110915	EPA 200.2

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Reported: 06/16/2021 17:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116515-07	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, MW-3-5, 5/24/2021 1:45:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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3761 Attucks Drive  
Powell, OH 43065

Reported: 06/16/2021 17:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116515-07	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, MW-3-5, 5/24/2021 1:45:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/16/2021 17:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116515-07	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, MW-3-5, 5/24/2021 1:45:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	110	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/27/21 07:00	05/27/21 10:56	MGC	MS-V5	1	B110179	EPA 524.2

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Powell, OH 43065

**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116515-07	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, MW-3-5, 5/24/2021 1:45:00PM, Blaine Tech - L. Henderson
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/27/21 07:00	05/27/21	10:56	MGC	MS-V5	1	B110179	EPA 524.2

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Powell, OH 43065

Reported: 06/16/2021 17:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Water Analysis (General Chemistry)

BCL Sample ID: 2116515-07		Client Sample Name: JPL- GW Monitoring Wells, MW-3-5, 5/24/2021 1:45:00PM, Blaine Tech - L. Henderson							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	54	mg/L	0.10	0.014	EPA-200.7	0.017		1	
Total Recoverable Magnesium	16	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	21	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	2.4	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	240	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	200	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	20	mg/L	0.50	0.13	EPA-300.0	ND		3	
Nitrate as N	0.82	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	41	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	7.82	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	340	mg/L	20	10	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	1.7	ug/L	4.0	0.81	EPA-314.0	ND	J	7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/04/21 12:30	06/07/21 16:25		AK1	PE-OP4	1	B110915	EPA 200.2
2	SM-2320B	05/27/21 06:30	05/27/21 11:25		RML	MET-1	1	B109482	No Prep
3	EPA-300.0	05/24/21 23:50	05/25/21 06:24		ANK	IC2	1	B109915	No Prep
4	EPA-150.1	05/27/21 06:30	05/27/21 11:25		RML	MET-1	1	B109482	No Prep
5	EPA-160.1	05/26/21 12:00	05/26/21 12:00		CAD	MANUAL	2	B110096	No Prep
6	EPA-353.2	05/25/21 08:42	05/25/21 08:46		MC1	KONE-1	1	B110059	No Prep
7	EPA-314.0	06/03/21 01:00	06/03/21 12:01		ANK	IC6	1	B110698	No Prep

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Powell, OH 43065

**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116515-07	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, MW-3-5, 5/24/2021 1:45:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00066	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Arsenic	23	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	44	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	22000	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	0.18	ug/L	1.0	0.10	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/01/21 18:00	06/02/21 09:45		SAV	IC-4	1	B110567	No Prep
2	EPA-200.8	06/03/21 10:35	06/03/21 16:04		EAR	PE-EL4	1	B110755	EPA 200.2
3	EPA-200.7	06/04/21 12:30	06/07/21 16:25		AK1	PE-OP4	1	B110915	EPA 200.2

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Powell, OH 43065

Reported: 06/16/2021 17:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116515-08	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, MW-3-4, 5/24/2021 2:15:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116515-08	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, MW-3-4, 5/24/2021 2:15:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/16/2021 17:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116515-08	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, MW-3-4, 5/24/2021 2:15:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	104	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/27/21 07:00	05/27/21 11:20	MGC	MS-V5	1	B110179	EPA 524.2

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Powell, OH 43065

**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116515-08	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, MW-3-4, 5/24/2021 2:15:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/27/21 07:00	05/27/21	11:20	MGC	MS-V5	1	B110179	EPA 524.2

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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 06/16/2021 17:38
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with 9 columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Lists various chemical constituents like Calcium, Magnesium, Sodium, Potassium, Bicarbonate, etc.

Table with 10 columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Provides detailed run information for each of the 8 samples.

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Tidewater Inc. - Powell  
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Powell, OH 43065

**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116515-08	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, MW-3-4, 5/24/2021 2:15:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00020	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Arsenic	7.5	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	12	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	5000	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	0.21	ug/L	1.0	0.10	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/01/21 18:00	06/02/21 09:54		SAV	IC-4	1	B110567	No Prep
2	EPA-200.8	06/03/21 10:35	06/03/21 16:06		EAR	PE-EL4	1	B110755	EPA 200.2
3	EPA-200.7	06/08/21 21:10	06/09/21 14:12		AK1	PE-OP4	1	B111169	EPA 200.2

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Powell, OH 43065

Reported: 06/16/2021 17:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116515-09	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, MW-3-3, 5/24/2021 2:45:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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3761 Attucks Drive  
Powell, OH 43065

Reported: 06/16/2021 17:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116515-09	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, MW-3-3, 5/24/2021 2:45:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Powell, OH 43065

**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116515-09	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, MW-3-3, 5/24/2021 2:45:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	110	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/27/21 07:00	05/27/21 11:44	MGC	MS-V5	1	B110179	EPA 524.2

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116515-09	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, MW-3-3, 5/24/2021 2:45:00PM, Blaine Tech - L. Henderson
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/27/21 07:00	05/27/21	11:44	MGC	MS-V5	1	B110179	EPA 524.2

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Powell, OH 43065

Reported: 06/16/2021 17:38
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows correspond to runs 1 through 7.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116515-09	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, MW-3-3, 5/24/2021 2:45:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00068	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Arsenic	0.94	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	1.6	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	1200	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/01/21 18:00	06/02/21 10:04		SAV	IC-4	1	B110567	No Prep
2	EPA-200.8	06/03/21 10:35	06/03/21 16:08		EAR	PE-EL4	1	B110755	EPA 200.2
3	EPA-200.7	06/08/21 21:10	06/14/21 17:34		ARD	PE-OP4	1	B111169	EPA 200.2

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Powell, OH 43065

Reported: 06/16/2021 17:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116515-10	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, DUP-3-2Q21, 5/24/2021 3:00:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 06/16/2021 17:38
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2116515-10) and Client Sample Name (JPL- GW Monitoring Wells, DUP-3-2Q21, 5/24/2021 3:00:00PM, Blaine Tech - L. Henderson)

Main data table with 9 columns: Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quads, Run #. Lists various chemical constituents and their analysis results.

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/16/2021 17:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116515-10	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, DUP-3-2Q21, 5/24/2021 3:00:00PM, Blaine Tech - L. Henderson
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	112	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/27/21 07:00	05/27/21 12:08	MGC	MS-V5	1	B110179	EPA 524.2

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116515-10	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, DUP-3-2Q21, 5/24/2021 3:00:00PM, Blaine Tech - L. Henderson
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/27/21 07:00	05/27/21	12:08	MGC	MS-V5	1	B110179	EPA 524.2

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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 06/16/2021 17:38
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows correspond to runs 1 through 8.

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Powell, OH 43065

**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116515-10	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, DUP-3-2Q21, 5/24/2021 3:00:00PM, Blaine Tech - L. Henderson
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00058	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Arsenic	0.95	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	1.4	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	1500	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/01/21 18:00	06/02/21 10:14		SAV	IC-4	1	B110567	No Prep
2	EPA-200.8	06/03/21 10:35	06/03/21 16:10		EAR	PE-EL4	1	B110755	EPA 200.2
3	EPA-200.7	06/08/21 21:10	06/09/21 14:36		AK1	PE-OP4	1	B111169	EPA 200.2

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Powell, OH 43065

Reported: 06/16/2021 17:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116515-11	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, EB-5-052421, 5/24/2021 2:20:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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3761 Attucks Drive  
Powell, OH 43065

Reported: 06/16/2021 17:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116515-11	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, EB-5-052421, 5/24/2021 2:20:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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3761 Attucks Drive  
Powell, OH 43065

Reported: 06/16/2021 17:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116515-11	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, EB-5-052421, 5/24/2021 2:20:00PM, Blaine Tech - L. Henderson
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	116	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	104	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/27/21 07:00	05/27/21 12:32	MGC	MS-V5	1	B110179	EPA 524.2

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**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116515-11	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, EB-5-052421, 5/24/2021 2:20:00PM, Blaine Tech - L. Henderson
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/27/21 07:00	05/27/21	12:32	MGC	MS-V5	1	B110179	EPA 524.2

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Reported: 06/16/2021 17:38
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with 9 columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with 10 columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows correspond to runs 1 through 8.

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**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116515-11	<b>Client Sample Name:</b> JPL- GW Monitoring Wells, EB-5-052421, 5/24/2021 2:20:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000081	mg/L	0.00020	0.000020	EPA-218.6	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/01/21 18:00	06/02/21 09:35		SAV	IC-4	1	B110567	No Prep
2	EPA-200.8	06/03/21 10:35	06/03/21 19:10		ARD	PE-EL4	1	B110756	EPA 200.2
3	EPA-200.7	06/08/21 21:10	06/09/21 14:38		AK1	PE-OP4	1	B111169	EPA 200.2

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**Reported:** 06/16/2021 17:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110179</b>						
Benzene	B110179-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B110179-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B110179-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B110179-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B110179-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B110179-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B110179-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B110179-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B110179-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B110179-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B110179-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B110179-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B110179-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B110179-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B110179-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B110179-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B110179-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B110179-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B110179-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B110179-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B110179-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B110179-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B110179-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B110179-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B110179-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B110179-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B110179-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B110179-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B110179-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B110179-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B110179-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B110179-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B110179-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B110179-BLK1	ND	ug/L	0.50	0.14	

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**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110179</b>						
trans-1,3-Dichloropropene	B110179-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B110179-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B110179-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B110179-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B110179-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B110179-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B110179-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B110179-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B110179-BLK1	ND	ug/L	0.50	0.12	
Styrene	B110179-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B110179-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2,2-Tetrachloroethane	B110179-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B110179-BLK1	ND	ug/L	0.50	0.23	
Toluene	B110179-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B110179-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B110179-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B110179-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B110179-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B110179-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B110179-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B110179-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B110179-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B110179-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B110179-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B110179-BLK1	ND	ug/L	0.50	0.18	
Acetone	B110179-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B110179-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B110179-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B110179-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B110179-BLK1	ND	ug/L	2.0	2.0	
Carbon disulfide	B110179-BLK1	ND	ug/L	0.50	0.48	
trans-1,4-Dichloro-2-butene	B110179-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B110179-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B110179-BLK1	ND	ug/L	4.0	1.3	

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**Project:** JPL- GW Monitoring Wells-CLP  
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**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110179</b>						
Ethyl t-butyl ether	B110179-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B110179-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B110179-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B110179-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B110179-BLK1	ND	ug/L	5.0	3.3	
Methyl iodide	B110179-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B110179-BLK1	ND	ug/L	5.0	2.4	
Methyl methacrylate	B110179-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B110179-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B110179-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B110179-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B110179-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B110179-BLK1	ND	ug/L	0.50	0.13	
<b>1,2-Dichloroethane-d4 (Surrogate)</b>	<b>B110179-BLK1</b>	<b>109</b>	<b>%</b>	<b>75 - 125 (LCL - UCL)</b>		
<b>Toluene-d8 (Surrogate)</b>	<b>B110179-BLK1</b>	<b>99.2</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		
<b>4-Bromofluorobenzene (Surrogate)</b>	<b>B110179-BLK1</b>	<b>103</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		

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**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
<b>QC Batch ID: B110179</b>										
Benzene	B110179-BS1	LCS	22.790	25.000	ug/L	91.2		70 - 130		
Bromodichloromethane	B110179-BS1	LCS	26.210	25.000	ug/L	105		70 - 130		
Chlorobenzene	B110179-BS1	LCS	24.880	25.000	ug/L	99.5		70 - 130		
Chloroethane	B110179-BS1	LCS	23.960	25.000	ug/L	95.8		70 - 130		
1,4-Dichlorobenzene	B110179-BS1	LCS	24.490	25.000	ug/L	98.0		70 - 130		
1,1-Dichloroethane	B110179-BS1	LCS	24.630	25.000	ug/L	98.5		70 - 130		
1,1-Dichloroethene	B110179-BS1	LCS	26.990	25.000	ug/L	108		70 - 130		
Toluene	B110179-BS1	LCS	25.210	25.000	ug/L	101		70 - 130		
Trichloroethene	B110179-BS1	LCS	24.950	25.000	ug/L	99.8		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B110179-BS1	LCS	11.070	10.000	ug/L	111		75 - 125		
Toluene-d8 (Surrogate)	B110179-BS1	LCS	10.260	10.000	ug/L	103		80 - 120		
4-Bromofluorobenzene (Surrogate)	B110179-BS1	LCS	10.790	10.000	ug/L	108		80 - 120		

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Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: B110179</b>		Used client sample: Y - Description: MW-22-2, 05/24/2021 11:15								
Benzene	MS	2116515-05	ND	23.010	25.000	ug/L		92.0		70 - 130
	MSD	2116515-05	ND	23.590	25.000	ug/L	2.5	94.4	20	70 - 130
Bromodichloromethane	MS	2116515-05	ND	27.180	25.000	ug/L		109		70 - 130
	MSD	2116515-05	ND	27.540	25.000	ug/L	1.3	110	20	70 - 130
Chlorobenzene	MS	2116515-05	ND	25.060	25.000	ug/L		100		70 - 130
	MSD	2116515-05	ND	25.500	25.000	ug/L	1.7	102	20	70 - 130
Chloroethane	MS	2116515-05	ND	24.970	25.000	ug/L		99.9		70 - 130
	MSD	2116515-05	ND	25.120	25.000	ug/L	0.6	100	20	70 - 130
1,4-Dichlorobenzene	MS	2116515-05	ND	26.090	25.000	ug/L		104		70 - 130
	MSD	2116515-05	ND	26.500	25.000	ug/L	1.6	106	20	70 - 130
1,1-Dichloroethane	MS	2116515-05	ND	25.130	25.000	ug/L		101		70 - 130
	MSD	2116515-05	ND	25.320	25.000	ug/L	0.8	101	20	70 - 130
1,1-Dichloroethene	MS	2116515-05	ND	28.210	25.000	ug/L		113		70 - 130
	MSD	2116515-05	ND	28.050	25.000	ug/L	0.6	112	20	70 - 130
Toluene	MS	2116515-05	ND	24.980	25.000	ug/L		99.9		70 - 130
	MSD	2116515-05	ND	24.620	25.000	ug/L	1.5	98.5	20	70 - 130
Trichloroethene	MS	2116515-05	ND	24.480	25.000	ug/L		97.9		70 - 130
	MSD	2116515-05	ND	24.860	25.000	ug/L	1.5	99.4	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	2116515-05	ND	11.760	10.000	ug/L		118		75 - 125
	MSD	2116515-05	ND	11.360	10.000	ug/L	3.5	114		75 - 125
Toluene-d8 (Surrogate)	MS	2116515-05	ND	10.360	10.000	ug/L		104		80 - 120
	MSD	2116515-05	ND	9.9500	10.000	ug/L	4.0	99.5		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	2116515-05	ND	10.650	10.000	ug/L		106		80 - 120
	MSD	2116515-05	ND	10.760	10.000	ug/L	1.0	108		80 - 120

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2) TICs

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110179</b>						
Chloroacetonitrile	B110179-BLK1	0	ug/L			
1-Chlorobutane	B110179-BLK1	0	ug/L			
1,1-Dichloropropanone	B110179-BLK1	0	ug/L			
Methyl acrylate	B110179-BLK1	0	ug/L			
Nitrobenzene	B110179-BLK1	0	ug/L			
2-Nitropropane	B110179-BLK1	0	ug/L			

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Powell, OH 43065

**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B109479</b>						
Bicarbonate	B109479-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B109479-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B109479-BLK1	ND	mg/L	4.1	4.1	
<b>QC Batch ID: B109482</b>						
Bicarbonate	B109482-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B109482-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B109482-BLK1	ND	mg/L	4.1	4.1	
<b>QC Batch ID: B109483</b>						
Bicarbonate	B109483-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B109483-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B109483-BLK1	ND	mg/L	4.1	4.1	
<b>QC Batch ID: B109915</b>						
Chloride	B109915-BLK1	ND	mg/L	0.50	0.13	
Nitrate as N	B109915-BLK1	ND	mg/L	0.10	0.024	
Sulfate	B109915-BLK1	ND	mg/L	1.0	0.14	
<b>QC Batch ID: B110059</b>						
Nitrite as N	B110059-BLK1	ND	mg/L	0.050	0.010	
<b>QC Batch ID: B110096</b>						
Total Dissolved Solids @ 180 C	B110096-BLK1	ND	mg/L	6.7	3.3	
<b>QC Batch ID: B110097</b>						
Total Dissolved Solids @ 180 C	B110097-BLK1	ND	mg/L	6.7	3.3	
<b>QC Batch ID: B110698</b>						
Perchlorate	B110698-BLK1	ND	ug/L	4.0	0.81	
<b>QC Batch ID: B110915</b>						
Total Recoverable Calcium	B110915-BLK1	0.017192	mg/L	0.10	0.014	J
Total Recoverable Magnesium	B110915-BLK1	ND	mg/L	0.050	0.019	
Total Recoverable Sodium	B110915-BLK1	ND	mg/L	0.50	0.051	
Total Recoverable Potassium	B110915-BLK1	ND	mg/L	1.0	0.10	
<b>QC Batch ID: B111169</b>						
Total Recoverable Calcium	B111169-BLK1	0.042274	mg/L	0.10	0.014	J

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

## Water Analysis (General Chemistry)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B111169</b>						
Total Recoverable Magnesium	B111169-BLK2	ND	mg/L	0.050	0.019	
Total Recoverable Sodium	B111169-BLK1	ND	mg/L	0.50	0.051	
Total Recoverable Potassium	B111169-BLK1	ND	mg/L	1.0	0.10	

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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 06/16/2021 17:38
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Table with columns: Constituent, QC Sample ID, Type, Result, Spike Level, Units, Percent Recovery, RPD, Control Limits (Percent Recovery, RPD), Lab Qualls. Includes multiple QC batches (B109479, B109482, B109483, B109915, B110059, B110096, B110097, B110698, B110915, B111169) and their respective test results.

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
<b>QC Batch ID: B111169</b>											
Total Recoverable Magnesium	B111169-BS2	LCS	8.6737	10.000	mg/L	86.7		85	115		
Total Recoverable Sodium	B111169-BS1	LCS	10.281	10.000	mg/L	103		85	115		
Total Recoverable Potassium	B111169-BS1	LCS	9.6067	10.000	mg/L	96.1		85	115		

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3761 Attucks Drive
Powell, OH 43065

Reported: 06/16/2021 17:38
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)
Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Qualls. Includes multiple QC batches (B109479, B109482, B109483, B109915, B110059, B110096, B110097, B110698) with various chemical analyses.

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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 06/16/2021 17:38
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes QC Batch IDs B110698, B110915, and B111169.

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**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110567</b>						
Hexavalent Chromium	B110567-BLK1	ND	mg/L	0.00020	0.000020	
<b>QC Batch ID: B110755</b>						
Total Recoverable Arsenic	B110755-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B110755-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B110755-BLK1	ND	ug/L	1.0	0.10	
<b>QC Batch ID: B110756</b>						
Total Recoverable Arsenic	B110756-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B110756-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B110756-BLK1	ND	ug/L	1.0	0.10	
<b>QC Batch ID: B110915</b>						
Total Recoverable Iron	B110915-BLK1	ND	ug/L	50	30	
<b>QC Batch ID: B111169</b>						
Total Recoverable Iron	B111169-BLK1	ND	ug/L	50	30	

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**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
<b>QC Batch ID: B110567</b>										
Hexavalent Chromium	B110567-BS1	LCS	0.020208	0.020000	mg/L	101		90 - 110		
<b>QC Batch ID: B110755</b>										
Total Recoverable Arsenic	B110755-BS1	LCS	103.50	100.00	ug/L	104		85 - 115		
Total Recoverable Chromium	B110755-BS1	LCS	41.417	40.000	ug/L	104		85 - 115		
Total Recoverable Lead	B110755-BS1	LCS	106.77	100.00	ug/L	107		85 - 115		
<b>QC Batch ID: B110756</b>										
Total Recoverable Arsenic	B110756-BS1	LCS	107.51	100.00	ug/L	108		85 - 115		
Total Recoverable Chromium	B110756-BS1	LCS	42.240	40.000	ug/L	106		85 - 115		
Total Recoverable Lead	B110756-BS1	LCS	109.34	100.00	ug/L	109		85 - 115		
<b>QC Batch ID: B110915</b>										
Total Recoverable Iron	B110915-BS1	LCS	873.31	1000.0	ug/L	87.3		85 - 115		
<b>QC Batch ID: B111169</b>										
Total Recoverable Iron	B111169-BS1	LCS	983.33	1000.0	ug/L	98.3		85 - 115		

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Powell, OH 43065

Reported: 06/16/2021 17:38  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Metals Analysis

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
<b>QC Batch ID: B110567</b>		Used client sample: Y - Description: MW-22-2, 05/24/2021 11:15								
Hexavalent Chromium	DUP	2116515-05	0.0020580	0.0020580		mg/L	0		10	
	MS	2116515-05	0.0020580	0.022692	0.020202	mg/L		102		90 - 110
	MSD	2116515-05	0.0020580	0.022528	0.020202	mg/L	0.7	101	10	90 - 110
<b>QC Batch ID: B110755</b>		Used client sample: Y - Description: MW-22-5, 05/24/2021 09:30								
Total Recoverable Arsenic	DUP	2116515-02	ND	ND		ug/L			20	
	MS	2116515-02	ND	108.12	100.00	ug/L		108		70 - 130
	MSD	2116515-02	ND	107.22	100.00	ug/L	0.8	107	20	70 - 130
Total Recoverable Chromium	DUP	2116515-02	ND	ND		ug/L			20	
	MS	2116515-02	ND	40.309	40.000	ug/L		101		70 - 130
	MSD	2116515-02	ND	39.997	40.000	ug/L	0.8	100	20	70 - 130
Total Recoverable Lead	DUP	2116515-02	0.11200	0.10000		ug/L	11.3		20	J
	MS	2116515-02	0.11200	104.90	100.00	ug/L		105		70 - 130
	MSD	2116515-02	0.11200	103.30	100.00	ug/L	1.5	103	20	70 - 130
<b>QC Batch ID: B110756</b>		Used client sample: Y - Description: EB-5-052421, 05/24/2021 14:20								
Total Recoverable Arsenic	DUP	2116515-11	ND	ND		ug/L			20	
	MS	2116515-11	ND	108.27	100.00	ug/L		108		70 - 130
	MSD	2116515-11	ND	105.38	100.00	ug/L	2.7	105	20	70 - 130
Total Recoverable Chromium	DUP	2116515-11	ND	ND		ug/L			20	
	MS	2116515-11	ND	42.315	40.000	ug/L		106		70 - 130
	MSD	2116515-11	ND	42.692	40.000	ug/L	0.9	107	20	70 - 130
Total Recoverable Lead	DUP	2116515-11	ND	ND		ug/L			20	
	MS	2116515-11	ND	105.61	100.00	ug/L		106		70 - 130
	MSD	2116515-11	ND	105.58	100.00	ug/L	0.0	106	20	70 - 130
<b>QC Batch ID: B110915</b>		Used client sample: N								
Total Recoverable Iron	DUP	2116444-01	ND	ND		ug/L			20	
	MS	2116444-01	ND	918.06	1000.0	ug/L		91.8		75 - 125
	MSD	2116444-01	ND	909.18	1000.0	ug/L	1.0	90.9	20	75 - 125
<b>QC Batch ID: B111169</b>		Used client sample: Y - Description: MW-3-4, 05/24/2021 14:15								
Total Recoverable Iron	DUP	2116515-08	4982.9	5027.5		ug/L	0.9		20	
	MS	2116515-08	4982.9	5622.3	1000.0	ug/L		63.9		75 - 125 A03
	MSD	2116515-08	4982.9	5950.0	1000.0	ug/L	5.7	96.7	20	75 - 125

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/16/2021 17:38  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

**Notes And Definitions**

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A03 The sample concentration was more than 4 times the spike level.
- A07 Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
- A40 Initial calibration linearity criteria not met.
- Q03 Matrix spike recovery(s) was(were) not within the control limits.
- S05 The sample holding time was exceeded.
- V01 The Initial Calibration Verification (ICV) recovery is not within established control limits.
- V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.

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Date of Report: 06/14/2021

David Conner

Tidewater Inc. - Powell

3761 Attucks Drive

Powell, OH 43065

Client Project: 2Q21

BCL Project: JPL- GW Monitoring Wells-CLP

BCL Work Order: 2116713

Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 5/25/2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda

Client Service Rep

Stuart Buttram

Technical Director

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/14/2021 9:31  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Case Narrative

#### Sample Receipt

COC Number:

Samples received refrigerated to 0.9 °C

#### Sample List

<u>Lab Number</u>	<u>Date/Time Sampled</u>	<u>Sample Name</u>
2116713-01	05/25/2021 08:00	TB-6-052521
2116713-02	05/25/2021 08:45	MW-18-5
2116713-03	05/25/2021 09:15	MW-18-4
2116713-04	05/25/2021 10:45	MW-18-3
2116713-05	05/25/2021 11:45	MW-18-2
2116713-06	05/25/2021 11:00	DUP-4-2Q21
2116713-07	05/25/2021 13:45	MW-26-2
2116713-08	05/25/2021 14:00	EB-6-052521

#### Requested Analysis

Calc, EPA-150.1, EPA-160.1, EPA-200.7 (TRM), EPA-200.8 (TRM), EPA-218.6, EPA-300.0, EPA-314.0, EPA-353.2, EPA-524.2, SM-2320B

<u>Sample</u>	<u>Analyte</u>	<u>Flag</u>
---------------	----------------	-------------

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Tidewater Inc. - Powell  
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Powell, OH 43065

**Reported:** 06/14/2021 9:31  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Case Narrative

<u>Sample</u>	<u>Analyte</u>	<u>Flag</u>
<b>Sample Qualifier Summary</b>		
2116713-01	EPA-524.2 Bromomethane	V11
2116713-01	EPA-524.2 Methyl iodide	A40
2116713-01	EPA-524.2 Methyl iodide	V01
2116713-01	EPA-524.2 Methyl iodide	V11
2116713-01	EPA-524.2 Pentachloroethane	V11
2116713-02	EPA-524.2 Bromomethane	V11
2116713-02	EPA-524.2 Methyl iodide	A40
2116713-02	EPA-524.2 Methyl iodide	V01
2116713-02	EPA-524.2 Methyl iodide	V11
2116713-02	EPA-524.2 Pentachloroethane	V11
2116713-03	EPA-524.2 Bromomethane	V11
2116713-03	EPA-524.2 Methyl iodide	A40
2116713-03	EPA-524.2 Methyl iodide	V01
2116713-03	EPA-524.2 Methyl iodide	V11
2116713-03	EPA-524.2 Pentachloroethane	V11
2116713-04	EPA-524.2 Bromomethane	V11
2116713-04	EPA-524.2 Methyl iodide	A40
2116713-04	EPA-524.2 Methyl iodide	V01
2116713-04	EPA-524.2 Methyl iodide	V11
2116713-04	EPA-524.2 Pentachloroethane	V11
2116713-05	EPA-524.2 Bromomethane	V11
2116713-05	EPA-524.2 Methyl iodide	A40
2116713-05	EPA-524.2 Methyl iodide	V01
2116713-05	EPA-524.2 Methyl iodide	V11
2116713-05	EPA-524.2 Pentachloroethane	V11
2116713-06	EPA-524.2 Bromomethane	V11
2116713-06	EPA-524.2 Methyl iodide	A40
2116713-06	EPA-524.2 Methyl iodide	V01
2116713-06	EPA-524.2 Methyl iodide	V11
2116713-06	EPA-524.2 Pentachloroethane	V11
2116713-07	EPA-524.2 Bromomethane	V11
2116713-07	EPA-524.2 Methyl iodide	A40
2116713-07	EPA-524.2 Methyl iodide	V01
2116713-07	EPA-524.2 Methyl iodide	V11
2116713-07	EPA-524.2 Pentachloroethane	V11
2116713-08	EPA-524.2 Bromomethane	V11
2116713-08	EPA-524.2 Methyl iodide	A40
2116713-08	EPA-524.2 Methyl iodide	V01
2116713-08	EPA-524.2 Methyl iodide	V11

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/14/2021 9:31  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Case Narrative

<u>Sample</u>		<u>Analyte</u>	<u>Flag</u>
<b>Sample Qualifier Summary</b>			
2116713-08	EPA-524.2	Pentachloroethane	V11
<b>Holding Times</b>			
2116713-02	EPA-150.1	pH	S05
2116713-03	EPA-150.1	pH	S05
2116713-04	EPA-150.1	pH	S05
2116713-06	EPA-150.1	pH	S05
2116713-07	EPA-150.1	pH	S05
2116713-08	EPA-150.1	pH	S05
<b>Method Blanks</b>			
B110179-BLK1	EPA-524.2	Chloroacetonitrile	0 ug/L
B110179-BLK1	EPA-524.2	1-Chlorobutane	0 ug/L
B110179-BLK1	EPA-524.2	1,1-Dichloropropanone	0 ug/L
B110179-BLK1	EPA-524.2	Methyl acrylate	0 ug/L
B110179-BLK1	EPA-524.2	Nitrobenzene	0 ug/L
B110179-BLK1	EPA-524.2	2-Nitropropane	0 ug/L
B110381-BLK1	EPA-353.2	Nitrite as N	0.019166 mg/L
B111274-BLK1	EPA-200.7 (TRM)	Total Recoverable Magnesium	0.032213 mg/L
<b>Matrix Spikes</b>			
B110214-DUP1	EPA-218.6	Hexavalent Chromium	A02

### LCS

The LCS recoveries are within QC limits.

### Discussion

Advised client, only voas received for 2116713-05. See cooler receipt form. Sampler confirmed additional bottles for other analysis submitted on following day, see SDG 2116877-07.

### Summary of Flags

A02	The difference between duplicate readings is less than the quantitation limit.
A40	Initial calibration linearity criteria not met.
S05	The sample holding time was exceeded.
V01	The Initial Calibration Verification (ICV) recovery is not within established control limits.
V11	The Continuing Calibration Verification (CCV) recovery was not within established control limits.

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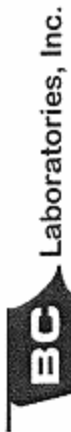
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Page 1 of 2

Chain of Custody Form

21-16713



**Report To:** Tidewater, Inc.  
**Client:** Tidewater  
**Attn:** David Conner  
**Street Address:** 3761 Allucks Drive  
**City:** Powell **State:** OH **Zip:** 43065  
**Phone:** (626) 298-5715 **Fax:** (614) 792-2897  
**Email Address:** david.conner@tidelco.net  
**Submission #:**

**Project Description:** JPL-GW Monitoring  
**Project Code:** 2021  
**Sampler (s):** Blaine Tech  
**L. Henderson**

Sample #	Sample Description	Date	Time	Matrix*
-1	TB-6-052521	5/25/21	0800	U
-2	ML-18-5	0845		
-3	ML-18-4	0915		
-4	ML-18-3	1045		
-5	ML-18-2	1145		
-6	DUP-4-2021	1100		
-7	ML-26-2	1345		
-8	EB-6-052521	1400		
24	ML-26-1			

**Analysis Requested**

Analysis	Hexavalent Cr6 -218.6 (mg/L)	Cl, NO3, NO2, SO4, Perch.	CO3, HCO3, Alk., TDS, pH	Orthophosphate 365.1	1,4 Dioxane 82705IM	NDMA 1625M
TRM: Cr, Pb, As, Ca, Mg, K	X	X	X	X	X	X
VOCS EPA 524.2	X	X	X	X	X	X
Na, Fe	X	X	X	X	X	X
CRK BY	DISTRIBUTION					
	SUB IN 405					
	SUB OUT					
	SHORT HOLDING TIME					
	CIP SS					
	DO O2 BOD MBAS COT					

**Billing**  
**Client:** Tidewater  
**Attn:** David Conner  
**Address:** 3761 Allucks Drive  
**City:** Powell **State:** OH **Zip:** 43065  
**Are there any tests with holding times? less than or equal to 48 hours?**  
 Yes  No  
**\*Standard Turnaround = 20**

**Notes**

**Matrix Types:** S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other

**Turnaround # of working days:**  24 Hr Rush  48 Hr Rush  3-5 Day Rush  Normal (10 - Days)

**Lab TAT Approval:** \* Additional Charges May Apply

**Comments:**  
 PLEASE NOTATE WHICH SAMPLES TO USE FOR QC (MS/MSD)  
 90% Level III and 10% Level IV data validation required; Level IV Notated on C of C  
 NOTE: ALL ANALYSIS REQUIRED TO HAVE CALIBRATION SUMMARIES (Inform QC)

**Global ID:**

Cost Center:	1. Relinquished By:	Date	Time
	[Signature]	5/25/21	1445
2. Relinquished By:	[Signature]	5/25/21	1530
3. Relinquished By:	[Signature]	5/25/21	1745

**MBU Site**  
 MBU Site  
 CVX RCRA  
 Geotracker 5 File (CA Default)  
 Geotracker 2 File  
 Other (Specify)

BC Laboratories, Inc. 4100 Atlas Court - Bakersfield CA 93308 (661) 327-4911 Fax: (661) 327-1918 www.bclabs.com

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 of 1

Submission #: 21-16713

SHIPPING INFORMATION: Fed Ex  UPS  GSO / GLS  Hand Delivery  BC Lab Field Service  Other  (Specify) \_\_\_\_\_

SHIPPING CONTAINER: Ice Chest  None  Box  Other  (Specify) \_\_\_\_\_

FREE LIQUID: YES  NO  W / S \_\_\_\_\_

Refrigerant: Ice  Blue Ice  None  Other  Comments: \_\_\_\_\_

Custody Seals: Ice Chest  Containers  None  Comments: \_\_\_\_\_

Intact? Yes  No  Intact? Yes  No

All samples received? Yes  No  All samples containers intact? Yes  No  Description(s) match COC? Yes  No

COC Received:  YES  NO

Emissivity: 0.97 Container: PE Thermometer ID: 202 Date/Time: 5/25/21 1745

Temperature: (A) 0.9 °C / (C) 0.9 °C Analyst Init: PRE

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES		E	E	E		E	E	E		
4oz / 8oz / 16oz PE UNPRES										
2oz Cr*		D	D	D		D	D	D		
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz <input checked="" type="checkbox"/>		F	F	F		F	F	F		
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A									
40ml VOA VIAL		ABC	ABC	ABC	ABC	ABC	ABC	ABC		
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 524										
QT EPA 508/608/808/1A										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 551.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: Did not receive all bottles from - S. Only received voas.

Sample Numbering Completed By: PRE Date/Time: 5/25/21 1745

A = Actual / C = Corrected

Rev 22 04/13/21 (S:\WP\Doc\Prod\PerfectLAB\_DOCS\FORMS\5AMRECrev 23)



Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/14/2021 9:31  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

<b>2116713-01</b>	<b>COC Number:</b> --- <b>Project Number:</b> NASA/JPL <b>Sampling Location:</b> --- <b>Sampling Point:</b> TB-6-052521 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/25/2021 17:45 <b>Sampling Date:</b> 05/25/2021 08:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-6-052521 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>2116713-02</b>	<b>COC Number:</b> --- <b>Project Number:</b> NASA/JPL <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-18-5 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/25/2021 17:45 <b>Sampling Date:</b> 05/25/2021 08:45 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-18-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>2116713-03</b>	<b>COC Number:</b> --- <b>Project Number:</b> NASA/JPL <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-18-4 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/25/2021 17:45 <b>Sampling Date:</b> 05/25/2021 09:15 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-18-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/14/2021 9:31  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

<b>2116713-04</b>	<b>COC Number:</b> --- <b>Project Number:</b> NASA/JPL <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-18-3 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/25/2021 17:45 <b>Sampling Date:</b> 05/25/2021 10:45 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-18-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>2116713-05</b>	<b>COC Number:</b> --- <b>Project Number:</b> NASA/JPL <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-18-2 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/25/2021 17:45 <b>Sampling Date:</b> 05/25/2021 11:45 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-18-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

<b>2116713-06</b>	<b>COC Number:</b> --- <b>Project Number:</b> NASA/JPL <b>Sampling Location:</b> --- <b>Sampling Point:</b> DUP-4-2Q21 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/25/2021 17:45 <b>Sampling Date:</b> 05/25/2021 11:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): DUP-4-2Q21 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/14/2021 9:31  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

<b>2116713-07</b>	<b>COC Number:</b> --- <b>Project Number:</b> NASA/JPL <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-26-2 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/25/2021 17:45 <b>Sampling Date:</b> 05/25/2021 13:45 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-26-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>2116713-08</b>	<b>COC Number:</b> --- <b>Project Number:</b> NASA/JPL <b>Sampling Location:</b> --- <b>Sampling Point:</b> EB-6-052521 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/25/2021 17:45 <b>Sampling Date:</b> 05/25/2021 14:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-6-052521 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/14/2021 9:31  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116713-01	<b>Client Sample Name:</b> NASA/JPL, TB-6-052521, 5/25/2021 8:00:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/14/2021 9:31  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116713-01	<b>Client Sample Name:</b> NASA/JPL, TB-6-052521, 5/25/2021 8:00:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/14/2021 9:31  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116713-01	<b>Client Sample Name:</b> NASA/JPL, TB-6-052521, 5/25/2021 8:00:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/27/21 07:00	05/27/21 12:56	MGC	MS-V5	1	B110179	EPA 524.2

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**Reported:** 06/14/2021 9:31  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116713-01	<b>Client Sample Name:</b> NASA/JPL, TB-6-052521, 5/25/2021 8:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/27/21 07:00	05/27/21	12:56	MGC	MS-V5	1	B110179	EPA 524.2

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Reported: 06/14/2021 9:31  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2116713-02 Client Sample Name: NASA/JPL, MW-18-5, 5/25/2021 8:45:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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**Reported:** 06/14/2021 9:31  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116713-02	<b>Client Sample Name:</b> NASA/JPL, MW-18-5, 5/25/2021 8:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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**Reported:** 06/14/2021 9:31  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116713-02	<b>Client Sample Name:</b> NASA/JPL, MW-18-5, 5/25/2021 8:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	120	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/27/21 07:00	05/27/21 13:20	MGC	MS-V5	1	B110179	EPA 524.2

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**Reported:** 06/14/2021 9:31  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116713-02	<b>Client Sample Name:</b> NASA/JPL, MW-18-5, 5/25/2021 8:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/27/21 07:00	05/27/21	13:20	MGC	MS-V5	1	B110179	EPA 524.2

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Reported: 06/14/2021 9:31
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows 1-7 corresponding to the analysis runs.

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**Reported:** 06/14/2021 9:31  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116713-02	<b>Client Sample Name:</b> NASA/JPL, MW-18-5, 5/25/2021 8:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00014	mg/L	0.00020	0.000020	EPA-218.6	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	42	ug/L	50	30	EPA-200.7	ND	J	3
Total Recoverable Lead	0.10	ug/L	1.0	0.10	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	05/27/21 10:00	05/27/21 12:26		SAV	IC-4	1	B110214	No Prep
2	EPA-200.8	06/04/21 11:05	06/04/21 23:29		ARD	PE-EL2	1	B110895	EPA 200.2
3	EPA-200.7	06/09/21 18:15	06/10/21 21:20		AK1	PE-OP4	1	B111274	EPA 200.2

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Reported: 06/14/2021 9:31  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2116713-03 Client Sample Name: NASA/JPL, MW-18-4, 5/25/2021 9:15:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
<b>Carbon tetrachloride</b>	<b>1.3</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.17</b>	<b>EPA-524.2</b>	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Chloroform</b>	<b>0.73</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 06/14/2021 9:31  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2116713-03		Client Sample Name: NASA/JPL, MW-18-4, 5/25/2021 9:15:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Tetrachloroethene</b>	<b>0.66</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.23</b>	<b>EPA-524.2</b>	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
<b>Trichloroethene</b>	<b>0.83</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.19</b>	<b>EPA-524.2</b>	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
<b>Acetone</b>	<b>41</b>	<b>ug/L</b>	<b>10</b>	<b>6.6</b>	<b>EPA-524.2</b>	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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**Reported:** 06/14/2021 9:31  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116713-03	<b>Client Sample Name:</b> NASA/JPL, MW-18-4, 5/25/2021 9:15:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	110	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/27/21 07:00	05/27/21 13:45	MGC	MS-V5	1	B110179	EPA 524.2

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**Reported:** 06/14/2021 9:31  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116713-03	<b>Client Sample Name:</b> NASA/JPL, MW-18-4, 5/25/2021 9:15:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/27/21 07:00	05/27/21	13:45	MGC	MS-V5	1	B110179	EPA 524.2

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**Reported:** 06/14/2021 9:31  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

BCL Sample ID: 2116713-03		Client Sample Name: NASA/JPL, MW-18-4, 5/25/2021 9:15:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	36	mg/L	0.10	0.014	EPA-200.7	ND		1	
Total Recoverable Magnesium	9.0	mg/L	0.050	0.019	EPA-200.7	0.032		1	
Total Recoverable Sodium	28	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	0.92	mg/L	1.0	0.10	EPA-200.7	ND	J	1	
Bicarbonate	210	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	170	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	11	mg/L	0.50	0.13	EPA-300.0	ND		3	
Nitrate as N	1.4	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	25	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	8.08	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	290	mg/L	20	10	EPA-160.1	ND	A07	5	
Nitrite as N	0.016	mg/L	0.050	0.010	EPA-353.2	0.019	J	6	
Perchlorate	16	ug/L	4.0	0.81	EPA-314.0	ND		7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/09/21 18:15	06/10/21 21:23		AK1	PE-OP4	1	B111274	EPA 200.2
2	SM-2320B	06/01/21 07:00	06/01/21 09:40		RML	MET-1	1	B109501	No Prep
3	EPA-300.0	05/25/21 20:00	05/26/21 06:19		ANK	IC2	1	B110034	No Prep
4	EPA-150.1	06/01/21 07:00	06/01/21 09:40		RML	MET-1	1	B109501	No Prep
5	EPA-160.1	05/27/21 15:00	05/27/21 15:00		CAD	MANUAL	2	B110274	No Prep
6	EPA-353.2	05/26/21 09:18	05/26/21 09:44		MC1	KONE-1	1	B110381	No Prep
7	EPA-314.0	06/02/21 01:00	06/02/21 17:15		KB1	IC6	1	B110590	No Prep

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**Reported:** 06/14/2021 9:31  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116713-03	<b>Client Sample Name:</b> NASA/JPL, MW-18-4, 5/25/2021 9:15:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0010	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	2.9	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	81	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	0.10	ug/L	1.0	0.10	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	05/27/21 10:00	05/27/21 13:04		SAV	IC-4	1	B110214	No Prep
2	EPA-200.8	06/04/21 22:05	06/05/21 09:20		ARD	PE-EL2	1	B110920	EPA 200.2
3	EPA-200.7	06/09/21 18:15	06/10/21 21:23		AK1	PE-OP4	1	B111274	EPA 200.2

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Reported: 06/14/2021 9:31  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2116713-04 Client Sample Name: NASA/JPL, MW-18-3, 5/25/2021 10:45:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
<b>Carbon tetrachloride</b>	<b>0.19</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.17</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 06/14/2021 9:31  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116713-04	<b>Client Sample Name:</b> NASA/JPL, MW-18-3, 5/25/2021 10:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
<b>Trichlorofluoromethane</b>	<b>0.25</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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**Reported:** 06/14/2021 9:31  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116713-04	<b>Client Sample Name:</b> NASA/JPL, MW-18-3, 5/25/2021 10:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/27/21 07:00	05/27/21 14:09	MGC	MS-V5	1	B110179	EPA 524.2

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Powell, OH 43065

**Reported:** 06/14/2021 9:31  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116713-04	<b>Client Sample Name:</b> NASA/JPL, MW-18-3, 5/25/2021 10:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/27/21 07:00	05/27/21	14:09	MGC	MS-V5	1	B110179	EPA 524.2

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Powell, OH 43065

Reported: 06/14/2021 9:31
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows 1-7 detailing analysis parameters for each run.

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**Reported:** 06/14/2021 9:31  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116713-04	<b>Client Sample Name:</b> NASA/JPL, MW-18-3, 5/25/2021 10:45:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0012	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	1.5	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	31	ug/L	50	30	EPA-200.7	ND	J	3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	05/27/21 10:00	05/27/21	13:14	SAV	IC-4	1	B110214	No Prep
2	EPA-200.8	06/04/21 22:05	06/05/21	09:38	ARD	PE-EL2	1	B110920	EPA 200.2
3	EPA-200.7	06/09/21 18:15	06/10/21	14:53	AK1	PE-OP4	1	B111275	EPA 200.2

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Reported: 06/14/2021 9:31  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2116713-05 Client Sample Name: NASA/JPL, MW-18-2, 5/25/2021 11:45:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 06/14/2021 9:31  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116713-05	<b>Client Sample Name:</b> NASA/JPL, MW-18-2, 5/25/2021 11:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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**Reported:** 06/14/2021 9:31  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116713-05	<b>Client Sample Name:</b> NASA/JPL, MW-18-2, 5/25/2021 11:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	116	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/27/21 07:00	05/27/21 14:33	MGC	MS-V5	1	B110179	EPA 524.2

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**Reported:** 06/14/2021 9:31  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116713-05	<b>Client Sample Name:</b> NASA/JPL, MW-18-2, 5/25/2021 11:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/27/21 07:00	05/27/21	14:33	MGC	MS-V5	1	B110179	EPA 524.2

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Reported: 06/14/2021 9:31  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116713-06	<b>Client Sample Name:</b> NASA/JPL, DUP-4-2Q21, 5/25/2021 11:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
<b>Carbon tetrachloride</b>	<b>0.20</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.17</b>	<b>EPA-524.2</b>	ND	J	1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 06/14/2021 9:31  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116713-06	<b>Client Sample Name:</b> NASA/JPL, DUP-4-2Q21, 5/25/2021 11:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
<b>Trichlorofluoromethane</b>	<b>0.19</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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**Reported:** 06/14/2021 9:31  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116713-06	<b>Client Sample Name:</b> NASA/JPL, DUP-4-2Q21, 5/25/2021 11:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	111	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/27/21 07:00	05/27/21 14:57	MGC	MS-V5	1	B110179	EPA 524.2

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**Reported:** 06/14/2021 9:31  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116713-06	<b>Client Sample Name:</b> NASA/JPL, DUP-4-2Q21, 5/25/2021 11:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/27/21 07:00	05/27/21	14:57	MGC	MS-V5	1	B110179	EPA 524.2

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**Reported:** 06/14/2021 9:31  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

BCL Sample ID: 2116713-06		Client Sample Name: NASA/JPL, DUP-4-2Q21, 5/25/2021 11:00:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	57	mg/L	0.10	0.014	EPA-200.7	ND		1	
Total Recoverable Magnesium	17	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	21	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	2.7	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	260	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	210	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	20	mg/L	0.50	0.13	EPA-300.0	ND		3	
Nitrate as N	0.78	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	39	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	8.03	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	340	mg/L	20	10	EPA-160.1	ND	A07	5	
Nitrite as N	0.015	mg/L	0.050	0.010	EPA-353.2	0.019	J	6	
Perchlorate	0.92	ug/L	4.0	0.81	EPA-314.0	ND	J	7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/09/21 18:15	06/10/21 15:33		AK1	PE-OP4	1	B111275	EPA 200.2
2	SM-2320B	06/01/21 07:00	06/01/21 10:08		RML	MET-1	1	B109502	No Prep
3	EPA-300.0	05/25/21 20:00	05/26/21 07:01		ANK	IC2	1	B110034	No Prep
4	EPA-150.1	06/01/21 07:00	06/01/21 10:08		RML	MET-1	1	B109502	No Prep
5	EPA-160.1	05/27/21 15:00	05/27/21 15:00		CAD	MANUAL	2	B110274	No Prep
6	EPA-353.2	05/26/21 09:18	05/26/21 09:44		MC1	KONE-1	1	B110381	No Prep
7	EPA-314.0	06/02/21 01:00	06/02/21 17:46		KB1	IC6	1	B110590	No Prep

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**Reported:** 06/14/2021 9:31  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116713-06	<b>Client Sample Name:</b> NASA/JPL, DUP-4-2Q21, 5/25/2021 11:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0012	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Arsenic	0.91	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	2.8	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	38	ug/L	50	30	EPA-200.7	ND	J	3
Total Recoverable Lead	0.63	ug/L	1.0	0.10	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	05/27/21 10:00	05/27/21	13:42	SAV	IC-4	1	B110214	No Prep
2	EPA-200.8	06/04/21 22:05	06/05/21	09:39	ARD	PE-EL2	1	B110920	EPA 200.2
3	EPA-200.7	06/09/21 18:15	06/10/21	15:33	AK1	PE-OP4	1	B111275	EPA 200.2

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Reported: 06/14/2021 9:31  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116713-07	<b>Client Sample Name:</b> NASA/JPL, MW-26-2, 5/25/2021 1:45:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Chloroform</b>	<b>1.5</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 06/14/2021 9:31  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2116713-07		Client Sample Name: NASA/JPL, MW-26-2, 5/25/2021 1:45:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Tetrachloroethene</b>	<b>1.6</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.23</b>	<b>EPA-524.2</b>	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
<b>Trichloroethene</b>	<b>0.23</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.19</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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**Reported:** 06/14/2021 9:31  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116713-07	<b>Client Sample Name:</b> NASA/JPL, MW-26-2, 5/25/2021 1:45:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/27/21 07:00	05/27/21 15:21	MGC	MS-V5	1	B110179	EPA 524.2

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**Reported:** 06/14/2021 9:31  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116713-07	<b>Client Sample Name:</b> NASA/JPL, MW-26-2, 5/25/2021 1:45:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/27/21 07:00	05/27/21	15:21	MGC	MS-V5	1	B110179	EPA 524.2

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Reported: 06/14/2021 9:31
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows 1-7 corresponding to the main analysis table.

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/14/2021 9:31  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116713-07	<b>Client Sample Name:</b> NASA/JPL, MW-26-2, 5/25/2021 1:45:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00011	mg/L	0.00020	0.000020	EPA-218.6	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	1.4	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	180	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	05/27/21 10:00	05/27/21	13:52	SAV	IC-4	1	B110214	No Prep
2	EPA-200.8	06/04/21 22:05	06/05/21	09:41	ARD	PE-EL2	1	B110920	EPA 200.2
3	EPA-200.7	06/09/21 18:15	06/10/21	15:35	AK1	PE-OP4	1	B111275	EPA 200.2

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Reported: 06/14/2021 9:31  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116713-08	<b>Client Sample Name:</b> NASA/JPL, EB-6-052521, 5/25/2021 2:00:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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**Reported:** 06/14/2021 9:31  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116713-08	<b>Client Sample Name:</b> NASA/JPL, EB-6-052521, 5/25/2021 2:00:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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**Reported:** 06/14/2021 9:31  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116713-08	<b>Client Sample Name:</b> NASA/JPL, EB-6-052521, 5/25/2021 2:00:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	117	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	05/27/21 07:00	05/27/21 15:45	MGC	MS-V5	1	B110179	EPA 524.2

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**Reported:** 06/14/2021 9:31  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116713-08	<b>Client Sample Name:</b> NASA/JPL, EB-6-052521, 5/25/2021 2:00:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	05/27/21 07:00	05/27/21	15:45	MGC	MS-V5	1	B110179	EPA 524.2

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Reported: 06/14/2021 9:31
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows 1-7 detailing sample preparation and QC information.

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**Reported:** 06/14/2021 9:31  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116713-08	<b>Client Sample Name:</b> NASA/JPL, EB-6-052521, 5/25/2021 2:00:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000068	mg/L	0.00020	0.000020	EPA-218.6	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	05/27/21 10:00	05/27/21	14:02	SAV	IC-4	1	B110214	No Prep
2	EPA-200.8	06/04/21 22:05	06/05/21	09:42	ARD	PE-EL2	1	B110920	EPA 200.2
3	EPA-200.7	06/09/21 18:15	06/10/21	15:37	AK1	PE-OP4	1	B111275	EPA 200.2

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Reported: 06/14/2021 9:31  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110179</b>						
Benzene	B110179-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B110179-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B110179-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B110179-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B110179-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B110179-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B110179-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B110179-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B110179-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B110179-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B110179-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B110179-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B110179-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B110179-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B110179-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B110179-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B110179-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B110179-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B110179-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B110179-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B110179-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B110179-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B110179-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B110179-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B110179-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B110179-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B110179-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B110179-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B110179-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B110179-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B110179-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B110179-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B110179-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B110179-BLK1	ND	ug/L	0.50	0.14	

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**Reported:** 06/14/2021 9:31  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110179</b>						
trans-1,3-Dichloropropene	B110179-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B110179-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B110179-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B110179-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B110179-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B110179-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B110179-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B110179-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B110179-BLK1	ND	ug/L	0.50	0.12	
Styrene	B110179-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B110179-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2-Tetrachloroethane	B110179-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B110179-BLK1	ND	ug/L	0.50	0.23	
Toluene	B110179-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B110179-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B110179-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B110179-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B110179-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B110179-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B110179-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B110179-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B110179-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B110179-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B110179-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B110179-BLK1	ND	ug/L	0.50	0.18	
Acetone	B110179-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B110179-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B110179-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B110179-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B110179-BLK1	ND	ug/L	2.0	2.0	
Carbon disulfide	B110179-BLK1	ND	ug/L	0.50	0.48	
trans-1,4-Dichloro-2-butene	B110179-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B110179-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B110179-BLK1	ND	ug/L	4.0	1.3	

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/14/2021 9:31  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110179</b>						
Ethyl t-butyl ether	B110179-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B110179-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B110179-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B110179-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B110179-BLK1	ND	ug/L	5.0	3.3	
Methyl iodide	B110179-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B110179-BLK1	ND	ug/L	5.0	2.4	
Methyl methacrylate	B110179-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B110179-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B110179-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B110179-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B110179-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B110179-BLK1	ND	ug/L	0.50	0.13	
<b>1,2-Dichloroethane-d4 (Surrogate)</b>	<b>B110179-BLK1</b>	<b>109</b>	<b>%</b>	<b>75 - 125 (LCL - UCL)</b>		
<b>Toluene-d8 (Surrogate)</b>	<b>B110179-BLK1</b>	<b>99.2</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		
<b>4-Bromofluorobenzene (Surrogate)</b>	<b>B110179-BLK1</b>	<b>103</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		

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**Project Number:** 2Q21  
**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
<b>QC Batch ID: B110179</b>										
Benzene	B110179-BS1	LCS	22.790	25.000	ug/L	91.2		70 - 130		
Bromodichloromethane	B110179-BS1	LCS	26.210	25.000	ug/L	105		70 - 130		
Chlorobenzene	B110179-BS1	LCS	24.880	25.000	ug/L	99.5		70 - 130		
Chloroethane	B110179-BS1	LCS	23.960	25.000	ug/L	95.8		70 - 130		
1,4-Dichlorobenzene	B110179-BS1	LCS	24.490	25.000	ug/L	98.0		70 - 130		
1,1-Dichloroethane	B110179-BS1	LCS	24.630	25.000	ug/L	98.5		70 - 130		
1,1-Dichloroethene	B110179-BS1	LCS	26.990	25.000	ug/L	108		70 - 130		
Toluene	B110179-BS1	LCS	25.210	25.000	ug/L	101		70 - 130		
Trichloroethene	B110179-BS1	LCS	24.950	25.000	ug/L	99.8		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B110179-BS1	LCS	11.070	10.000	ug/L	111		75 - 125		
Toluene-d8 (Surrogate)	B110179-BS1	LCS	10.260	10.000	ug/L	103		80 - 120		
4-Bromofluorobenzene (Surrogate)	B110179-BS1	LCS	10.790	10.000	ug/L	108		80 - 120		

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Reported: 06/14/2021 9:31  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: B110179</b>		Used client sample: N								
Benzene	MS	2116515-05	ND	23.010	25.000	ug/L		92.0		70 - 130
	MSD	2116515-05	ND	23.590	25.000	ug/L	2.5	94.4	20	70 - 130
Bromodichloromethane	MS	2116515-05	ND	27.180	25.000	ug/L		109		70 - 130
	MSD	2116515-05	ND	27.540	25.000	ug/L	1.3	110	20	70 - 130
Chlorobenzene	MS	2116515-05	ND	25.060	25.000	ug/L		100		70 - 130
	MSD	2116515-05	ND	25.500	25.000	ug/L	1.7	102	20	70 - 130
Chloroethane	MS	2116515-05	ND	24.970	25.000	ug/L		99.9		70 - 130
	MSD	2116515-05	ND	25.120	25.000	ug/L	0.6	100	20	70 - 130
1,4-Dichlorobenzene	MS	2116515-05	ND	26.090	25.000	ug/L		104		70 - 130
	MSD	2116515-05	ND	26.500	25.000	ug/L	1.6	106	20	70 - 130
1,1-Dichloroethane	MS	2116515-05	ND	25.130	25.000	ug/L		101		70 - 130
	MSD	2116515-05	ND	25.320	25.000	ug/L	0.8	101	20	70 - 130
1,1-Dichloroethene	MS	2116515-05	ND	28.210	25.000	ug/L		113		70 - 130
	MSD	2116515-05	ND	28.050	25.000	ug/L	0.6	112	20	70 - 130
Toluene	MS	2116515-05	ND	24.980	25.000	ug/L		99.9		70 - 130
	MSD	2116515-05	ND	24.620	25.000	ug/L	1.5	98.5	20	70 - 130
Trichloroethene	MS	2116515-05	ND	24.480	25.000	ug/L		97.9		70 - 130
	MSD	2116515-05	ND	24.860	25.000	ug/L	1.5	99.4	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	2116515-05	ND	11.760	10.000	ug/L		118		75 - 125
	MSD	2116515-05	ND	11.360	10.000	ug/L	3.5	114		75 - 125
Toluene-d8 (Surrogate)	MS	2116515-05	ND	10.360	10.000	ug/L		104		80 - 120
	MSD	2116515-05	ND	9.9500	10.000	ug/L	4.0	99.5		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	2116515-05	ND	10.650	10.000	ug/L		106		80 - 120
	MSD	2116515-05	ND	10.760	10.000	ug/L	1.0	108		80 - 120

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**Project Number:** 2Q21  
**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2) TICs

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110179</b>						
Chloroacetonitrile	B110179-BLK1	0	ug/L			
1-Chlorobutane	B110179-BLK1	0	ug/L			
1,1-Dichloropropanone	B110179-BLK1	0	ug/L			
Methyl acrylate	B110179-BLK1	0	ug/L			
Nitrobenzene	B110179-BLK1	0	ug/L			
2-Nitropropane	B110179-BLK1	0	ug/L			

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**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B109501</b>						
Bicarbonate	B109501-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B109501-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B109501-BLK1	ND	mg/L	4.1	4.1	
<b>QC Batch ID: B109502</b>						
Bicarbonate	B109502-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B109502-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B109502-BLK1	ND	mg/L	4.1	4.1	
<b>QC Batch ID: B110034</b>						
Chloride	B110034-BLK1	ND	mg/L	0.50	0.13	
Nitrate as N	B110034-BLK1	ND	mg/L	0.10	0.024	
Sulfate	B110034-BLK1	ND	mg/L	1.0	0.14	
<b>QC Batch ID: B110274</b>						
Total Dissolved Solids @ 180 C	B110274-BLK1	ND	mg/L	6.7	3.3	
<b>QC Batch ID: B110381</b>						
Nitrite as N	B110381-BLK1	0.019166	mg/L	0.050	0.010	J
<b>QC Batch ID: B110590</b>						
Perchlorate	B110590-BLK1	ND	ug/L	4.0	0.81	
<b>QC Batch ID: B111274</b>						
Total Recoverable Calcium	B111274-BLK1	ND	mg/L	0.10	0.014	
<b>Total Recoverable Magnesium</b>	<b>B111274-BLK1</b>	<b>0.032213</b>	<b>mg/L</b>	<b>0.050</b>	<b>0.019</b>	<b>J</b>
Total Recoverable Sodium	B111274-BLK1	ND	mg/L	0.50	0.051	
Total Recoverable Potassium	B111274-BLK1	ND	mg/L	1.0	0.10	
<b>QC Batch ID: B111275</b>						
Total Recoverable Calcium	B111275-BLK1	ND	mg/L	0.10	0.014	
Total Recoverable Magnesium	B111275-BLK1	ND	mg/L	0.050	0.019	
Total Recoverable Sodium	B111275-BLK1	ND	mg/L	0.50	0.051	
Total Recoverable Potassium	B111275-BLK1	ND	mg/L	1.0	0.10	

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Reported: 06/14/2021 9:31  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Water Analysis (General Chemistry)

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits		Lab Quals
							RPD	Percent Recovery	
<b>QC Batch ID: B109501</b>									
Total Alkalinity as CaCO3	B109501-BS3	LCS	92.480	100.00	mg/L	92.5		90 - 110	
pH	B109501-BS2	LCS	7.0500	7.0000	pH Units	101		95 - 105	
<b>QC Batch ID: B109502</b>									
Total Alkalinity as CaCO3	B109502-BS3	LCS	101.34	100.00	mg/L	101		90 - 110	
pH	B109502-BS2	LCS	7.0500	7.0000	pH Units	101		95 - 105	
<b>QC Batch ID: B110034</b>									
Chloride	B110034-BS1	LCS	50.012	50.000	mg/L	100		90 - 110	
Nitrate as N	B110034-BS1	LCS	5.0110	5.0000	mg/L	100		90 - 110	
Sulfate	B110034-BS1	LCS	101.05	100.00	mg/L	101		90 - 110	
<b>QC Batch ID: B110274</b>									
Total Dissolved Solids @ 180 C	B110274-BS1	LCS	570.00	586.00	mg/L	97.3		90 - 110	
<b>QC Batch ID: B110381</b>									
Nitrite as N	B110381-BS1	LCS	0.47942	0.50000	mg/L	95.9		90 - 110	
<b>QC Batch ID: B110590</b>									
Perchlorate	B110590-BS1	LCS	10.104	10.000	ug/L	101		85 - 115	
<b>QC Batch ID: B111274</b>									
Total Recoverable Calcium	B111274-BS1	LCS	9.4939	10.000	mg/L	94.9		85 - 115	
Total Recoverable Magnesium	B111274-BS1	LCS	8.9109	10.000	mg/L	89.1		85 - 115	
Total Recoverable Sodium	B111274-BS1	LCS	9.4307	10.000	mg/L	94.3		85 - 115	
Total Recoverable Potassium	B111274-BS1	LCS	9.0774	10.000	mg/L	90.8		85 - 115	
<b>QC Batch ID: B111275</b>									
Total Recoverable Calcium	B111275-BS1	LCS	9.1693	10.000	mg/L	91.7		85 - 115	
Total Recoverable Magnesium	B111275-BS1	LCS	8.6951	10.000	mg/L	87.0		85 - 115	
Total Recoverable Sodium	B111275-BS1	LCS	9.4398	10.000	mg/L	94.4		85 - 115	
Total Recoverable Potassium	B111275-BS1	LCS	9.0232	10.000	mg/L	90.2		85 - 115	

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Powell, OH 43065

Reported: 06/14/2021 9:31
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes QC Batch IDs B109501, B109502, B110034, B110274, B110381, B110590, and B111274.

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Project Manager: David Conner

### Water Analysis (General Chemistry)

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
<b>QC Batch ID: B111274</b>		Used client sample: N								
Total Recoverable Magnesium	DUP	2116706-06	9.0874	8.9273		mg/L	1.8		20	
	MS	2116706-06	9.0874	17.257	10.000	mg/L		81.7		75 - 125
	MSD	2116706-06	9.0874	16.792	10.000	mg/L	2.7	77.0	20	75 - 125
Total Recoverable Sodium	DUP	2116706-06	7.4445	7.3005		mg/L	2.0		20	
	MS	2116706-06	7.4445	16.358	10.000	mg/L		89.1		75 - 125
	MSD	2116706-06	7.4445	15.725	10.000	mg/L	3.9	82.8	20	75 - 125
Total Recoverable Potassium	DUP	2116706-06	0.51412	0.55578		mg/L	7.8		20	J
	MS	2116706-06	0.51412	9.2891	10.000	mg/L		87.7		75 - 125
	MSD	2116706-06	0.51412	9.1296	10.000	mg/L	1.7	86.2	20	75 - 125
<b>QC Batch ID: B111275</b>		Used client sample: Y - Description: MW-18-3, 05/25/2021 10:45								
Total Recoverable Calcium	DUP	2116713-04	55.544	57.320		mg/L	3.1		20	
	MS	2116713-04	55.544	64.613	10.000	mg/L		90.7		75 - 125
	MSD	2116713-04	55.544	66.052	10.000	mg/L	2.2	105	20	75 - 125
Total Recoverable Magnesium	DUP	2116713-04	16.003	16.521		mg/L	3.2		20	
	MS	2116713-04	16.003	24.507	10.000	mg/L		85.0		75 - 125
	MSD	2116713-04	16.003	24.510	10.000	mg/L	0.0	85.1	20	75 - 125
Total Recoverable Sodium	DUP	2116713-04	20.707	21.402		mg/L	3.3		20	
	MS	2116713-04	20.707	30.108	10.000	mg/L		94.0		75 - 125
	MSD	2116713-04	20.707	30.509	10.000	mg/L	1.3	98.0	20	75 - 125
Total Recoverable Potassium	DUP	2116713-04	2.5648	2.6019		mg/L	1.4		20	
	MS	2116713-04	2.5648	11.388	10.000	mg/L		88.2		75 - 125
	MSD	2116713-04	2.5648	11.450	10.000	mg/L	0.5	88.8	20	75 - 125

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**Reported:** 06/14/2021 9:31  
**Project:** JPL- GW Monitoring Wells-CLP  
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**Project Manager:** David Conner

### Metals Analysis

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110214</b>						
Hexavalent Chromium	B110214-BLK1	ND	mg/L	0.00020	0.000020	
<b>QC Batch ID: B110895</b>						
Total Recoverable Arsenic	B110895-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B110895-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B110895-BLK1	ND	ug/L	1.0	0.10	
<b>QC Batch ID: B110920</b>						
Total Recoverable Arsenic	B110920-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B110920-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B110920-BLK1	ND	ug/L	1.0	0.10	
<b>QC Batch ID: B111274</b>						
Total Recoverable Iron	B111274-BLK1	ND	ug/L	50	30	
<b>QC Batch ID: B111275</b>						
Total Recoverable Iron	B111275-BLK1	ND	ug/L	50	30	

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**Project Manager:** David Conner

### Metals Analysis

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
<b>QC Batch ID: B110214</b>										
Hexavalent Chromium	B110214-BS1	LCS	0.019925	0.020000	mg/L	99.6		90 - 110		
<b>QC Batch ID: B110895</b>										
Total Recoverable Arsenic	B110895-BS1	LCS	104.82	100.00	ug/L	105		85 - 115		
Total Recoverable Chromium	B110895-BS1	LCS	39.035	40.000	ug/L	97.6		85 - 115		
Total Recoverable Lead	B110895-BS1	LCS	112.64	100.00	ug/L	113		85 - 115		
<b>QC Batch ID: B110920</b>										
Total Recoverable Arsenic	B110920-BS1	LCS	103.31	100.00	ug/L	103		85 - 115		
Total Recoverable Chromium	B110920-BS1	LCS	41.385	40.000	ug/L	103		85 - 115		
Total Recoverable Lead	B110920-BS1	LCS	104.83	100.00	ug/L	105		85 - 115		
<b>QC Batch ID: B111274</b>										
Total Recoverable Iron	B111274-BS1	LCS	878.18	1000.0	ug/L	87.8		85 - 115		
<b>QC Batch ID: B111275</b>										
Total Recoverable Iron	B111275-BS1	LCS	851.50	1000.0	ug/L	85.1		85 - 115		

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Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Control Limits Percent Recovery, Lab Quals. Includes QC Batch IDs B110214, B110895, B110920, B111274, and B111275.

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/14/2021 9:31  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

**Notes And Definitions**

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A02 The difference between duplicate readings is less than the quantitation limit.
- A07 Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
- A40 Initial calibration linearity criteria not met.
- S05 The sample holding time was exceeded.
- V01 The Initial Calibration Verification (ICV) recovery is not within established control limits.
- V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.

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Date of Report: 06/22/2021

David Conner

Tidewater Inc. - Powell

3761 Attucks Drive

Powell, OH 43065

Client Project: 2Q21

BCL Project: JPL- GW Monitoring Wells-CLP

BCL Work Order: 2116877

Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 5/26/2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda

Client Service Rep

Stuart Buttram

Technical Director

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Case Narrative

#### Sample Receipt

COC Number:

Samples received refrigerated to 0.7 °C

#### Sample List

<u>Lab Number</u>	<u>Date/Time Sampled</u>	<u>Sample Name</u>
2116877-01	05/26/2021 09:05	MW-17-5
2116877-02	05/26/2021 09:40	MW-17-4
2116877-03	05/26/2021 10:45	MW-17-3
2116877-04	05/26/2021 12:30	MW-17-2
2116877-05	05/26/2021 12:45	DUP-5-2Q21
2116877-06	05/26/2021 08:00	TB-7-052621
2116877-07	05/25/2021 11:45	MW-18-2
2116877-08	05/26/2021 14:35	MW-21-5
2116877-09	05/26/2021 15:05	MW-21-4
2116877-10	05/26/2021 14:45	EB-7-052621
2116877-11	05/26/2021 10:30	MW-15
2116877-12	05/26/2021 12:25	MW-1
2116877-13	05/26/2021 13:55	MW-9

#### Requested Analysis

Calc, EPA-150.1, EPA-160.1, EPA-200.7 (TRM), EPA-200.8 (TRM), EPA-218.6, EPA-300.0, EPA-314.0, EPA-353.2, EPA-524.2, EPA-8270C, SM-2320B

<u>Sample</u>	<u>Analyte</u>	<u>Flag</u>
---------------	----------------	-------------

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Case Narrative

<u>Sample</u>	<u>Analyte</u>	<u>Flag</u>
<b>Sample Qualifier Summary</b>		
2116877-01	EPA-200.7 (TRM)	Total Recoverable Magnesium S11
2116877-01	EPA-524.2	Methyl iodide A40
2116877-01	EPA-524.2	Methyl iodide V01
2116877-01	EPA-524.2	Methyl iodide V11
2116877-02	EPA-200.7 (TRM)	Total Recoverable Magnesium S11
2116877-02	EPA-524.2	Methyl iodide A40
2116877-02	EPA-524.2	Methyl iodide V01
2116877-02	EPA-524.2	Methyl iodide V11
2116877-03	EPA-200.7 (TRM)	Total Recoverable Magnesium S11
2116877-03	EPA-524.2	Methyl iodide A40
2116877-03	EPA-524.2	Methyl iodide V01
2116877-03	EPA-524.2	Methyl iodide V11
2116877-04	EPA-200.7 (TRM)	Total Recoverable Magnesium S11
2116877-04	EPA-524.2	Methyl iodide A40
2116877-04	EPA-524.2	Methyl iodide V01
2116877-04	EPA-524.2	Methyl iodide V11
2116877-05	EPA-200.7 (TRM)	Total Recoverable Magnesium S11
2116877-05	EPA-524.2	Methyl iodide A40
2116877-05	EPA-524.2	Methyl iodide V01
2116877-05	EPA-524.2	Methyl iodide V11
2116877-06	EPA-524.2	Methyl iodide A40
2116877-06	EPA-524.2	Methyl iodide V01
2116877-06	EPA-524.2	Methyl iodide V11
2116877-07	EPA-200.7 (TRM)	Total Recoverable Magnesium S11
2116877-08	EPA-200.7 (TRM)	Total Recoverable Magnesium S11
2116877-08	EPA-524.2	Methyl iodide A40
2116877-08	EPA-524.2	Methyl iodide V01
2116877-08	EPA-524.2	Methyl iodide V11
2116877-09	EPA-200.7 (TRM)	Total Recoverable Magnesium S11
2116877-09	EPA-524.2	Methyl iodide A40
2116877-09	EPA-524.2	Methyl iodide V01
2116877-09	EPA-524.2	Methyl iodide V11
2116877-10	EPA-200.7 (TRM)	Total Recoverable Magnesium S11
2116877-10	EPA-524.2	Methyl iodide A40
2116877-10	EPA-524.2	Methyl iodide V01
2116877-10	EPA-524.2	Methyl iodide V11
2116877-11	EPA-200.7 (TRM)	Total Recoverable Magnesium S11
2116877-11	EPA-524.2	Methyl iodide A40
2116877-11	EPA-524.2	Methyl iodide V01

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Case Narrative

<u>Sample</u>	<u>Analyte</u>	<u>Flag</u>	
<b>Sample Qualifier Summary</b>			
2116877-11	EPA-524.2	Methyl iodide	V11
2116877-12	EPA-524.2	Methyl iodide	A40
2116877-12	EPA-524.2	Methyl iodide	V01
2116877-12	EPA-524.2	Methyl iodide	V11
2116877-13	EPA-524.2	Bromomethane	V11
2116877-13	EPA-524.2	Methyl iodide	A40
2116877-13	EPA-524.2	Methyl iodide	V01
2116877-13	EPA-524.2	Methyl iodide	V11
2116877-13	EPA-524.2	Pentachloroethane	V11

### Holding Times

2116877-01	EPA-150.1	pH	S05
2116877-02	EPA-150.1	pH	S05
2116877-03	EPA-150.1	pH	S05
2116877-04	EPA-150.1	pH	S05
2116877-05	EPA-150.1	pH	S05
2116877-07	EPA-150.1	pH	S05
2116877-08	EPA-150.1	pH	S05
2116877-09	EPA-150.1	pH	S05
2116877-10	EPA-150.1	pH	S05
2116877-11	EPA-150.1	pH	S05
2116877-12	EPA-150.1	pH	S05
2116877-13	EPA-150.1	pH	S05

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Case Narrative

<u>Sample</u>		<u>Analyte</u>	<u>Flag</u>
<b>Method Blanks</b>			
B110447-BLK1	EPA-524.2	Chloroacetonitrile	0 ug/L
B110447-BLK1	EPA-524.2	1-Chlorobutane	0 ug/L
B110447-BLK1	EPA-524.2	1,1-Dichloropropanone	0 ug/L
B110447-BLK1	EPA-524.2	Methyl acrylate	0 ug/L
B110447-BLK1	EPA-524.2	Nitrobenzene	0 ug/L
B110447-BLK1	EPA-524.2	2-Nitropropane	0 ug/L
B110448-BLK1	EPA-524.2	Chloroacetonitrile	0 ug/L
B110448-BLK1	EPA-524.2	1-Chlorobutane	0 ug/L
B110448-BLK1	EPA-524.2	1,1-Dichloropropanone	0 ug/L
B110448-BLK1	EPA-524.2	Methyl acrylate	0 ug/L
B110448-BLK1	EPA-524.2	Nitrobenzene	0 ug/L
B110448-BLK1	EPA-524.2	2-Nitropropane	0 ug/L
B110449-BLK1	EPA-524.2	Chloroacetonitrile	0 ug/L
B110449-BLK1	EPA-524.2	1-Chlorobutane	0 ug/L
B110449-BLK1	EPA-524.2	1,1-Dichloropropanone	0 ug/L
B110449-BLK1	EPA-524.2	Methyl acrylate	0 ug/L
B110449-BLK1	EPA-524.2	Nitrobenzene	0 ug/L
B110449-BLK1	EPA-524.2	2-Nitropropane	0 ug/L
B110513-BLK1	EPA-353.2	Nitrite as N	0.010212 mg/L
B110701-BLK1	EPA-218.6	Hexavalent Chromium	0.000023000 mg/L
B111383-BLK1	EPA-200.7 (TRM)	Total Recoverable Calcium	0.025973 mg/L
B111383-BLK1	EPA-200.7 (TRM)	Total Recoverable Magnesium	0.065863 mg/L
B111384-BLK1	EPA-200.7 (TRM)	Total Recoverable Magnesium	0.030776 mg/L
B111385-BLK1	EPA-200.7 (TRM)	Total Recoverable Calcium	0.015979 mg/L
B111385-BLK1	EPA-200.7 (TRM)	Total Recoverable Magnesium	0.048364 mg/L
B111383-BLK1	EPA-200.7 (TRM)	Total Recoverable Magnesium	M01
<b>Matrix Spikes</b>			
B110513-DUP1	EPA-353.2	Nitrite as N	A02
B110701-DUP1	EPA-218.6	Hexavalent Chromium	A02
B111276-DUP1	EPA-200.8 (TRM)	Total Recoverable Arsenic	A02
B111276-DUP1	EPA-200.8 (TRM)	Total Recoverable Chromium	A02
B111384-MSD1	EPA-200.7 (TRM)	Total Recoverable Calcium	A03
B111385-MS1	EPA-200.7 (TRM)	Total Recoverable Calcium	A03
B111385-MSD1	EPA-200.7 (TRM)	Total Recoverable Calcium	A03

### LCS

The LCS recoveries are within QC limits.

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

## Case Narrative

### Discussion

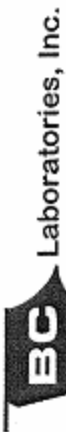
Advised client, no voas received for 2116877-07. See cooler receipt form. Sampler confirmed voas submitted day prior, see SDG 2116713-05.

### Summary of Flags

- A02 The difference between duplicate readings is less than the quantitation limit.
- A03 The sample concentration was more than 4 times the spike level.
- A40 Initial calibration linearity criteria not met.
- M01 Analyte detected in the Method Blank at or above the PQL.
- S05 The sample holding time was exceeded.
- S11 The analyte in the Method Blank is greater than the laboratory PQL but the sample result is greater than 10 times the Method Blank.
- V01 The Initial Calibration Verification (ICV) recovery is not within established control limits.
- V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.



Chain of Custody Form



Page 1 of 2

21-16877

**Report To:** Tidewater, Inc.  
**Client:** Tidewater, Inc.  
**Attn:** David Conner  
**Street Address:** 3761 Attucks Drive  
**City:** Powell **State:** OH **Zip:** 43065  
**Phone:** 626 298 5715 **Fax:** 614 792 2887  
**Email Address:** david.conner@tideh2o.net  
**Submission #:**

**Project Description:** JPL-GW Monitoring  
**Project Code:** 2021  
**Sampler (s):** Blaine Tech  
**L. Henderson**

**Billing:**  
**Client:** Tidewater  
**Attn:** David Conner  
**Address:** 3761 Attucks Drive  
**City:** Powell **State:** OH **Zip:** 43065  
 Are there any tests with holding times?  Yes  No  
 less than or equal to 48 hours?  
 \*Standard Turnaround = 10

**Analysis Requested:**

Sample #	Sample Description	Date	Time	Matrix*	VOCs EPA 5242	TRM: Cr, Pb, As, Ca, Mg, K, Na, Fe	Hexavalent Cr6 -218.6 (mg/L)	Cl, NO3, NO2, SO4, Perch.	CO3, HCO3, Alk., TDS, pH	Orthophosphate 365.1	1,4 Dioxane 8270S1M	NDMA 1625M
-1	AW-17-5	5/26/21	0905	L	X	X	X	X	X	X	X	X
-2	AW-17-4	5/26/21	0940	L	X	X	X	X	X	X	X	X
-3	AW-17-3	5/26/21	1043	L	X	X	X	X	X	X	X	X
-4	AW-17-2	5/26/21	1230	L	X	X	X	X	X	X	X	X
-5	DUP-5-2021	5/26/21	1245	L	X	X	X	X	X	X	X	X
-6	TR-7-052621	5/26/21	1800	L	X	X	X	X	X	X	X	X
-7	AW-18-2	5/27/21	1145	L	X	X	X	X	X	X	X	X
-8	AW-21-5	5/26/21	1435	L	X	X	X	X	X	X	X	X
-9	AW-21-4	5/26/21	1505	L	X	X	X	X	X	X	X	X
-10	EB-7-052621	5/26/21	1445	L	X	X	X	X	X	X	X	X

**CHK BY:** DISTRIBUTION  
 (Signature)  
 SUB OUT

**SHORT HOLDING TIME:**  
 (Signature)  
 NO  OP  SS

**Matrix Types:** S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other

**Turnaround # of working days:**  24 Hr Rush  48 Hr Rush  3-5 Day Rush  Normal (10 - Days)

**Lab TAT Approval:** \_\_\_\_\_ \*Additional Charges May Apply

**Comments:**  
 PLEASE NOTATE WHICH SAMPLES TO USE FOR OC (MS/MSD) 90% Level III and 10% Level IV data validation required; Level IV Notated on C of C  
 NOTE: ALL ANALYSIS REQUIRED TO HAVE CALIBRATION SUMMARIES (inform OC)

**Cost Center:**  
 1. Relinquished By: (Signature) Date: 5/26/21 Time: 1520  
 2. Relinquished By: (Signature) Date: 5/26/21 Time: 1950  
 3. Relinquished By: (Signature) Date: 5/26/21 Time: 1950

**Global ID:** \_\_\_\_\_

BC Laboratories, Inc. 4100 Atlas Court - Bakersfield CA 93308 (661) 327-4911 Fax: (661) 327-1918 www.bclabs.com

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Chain of Custody Form

21-16877 Page 2 of 2



**Client:** Tidewater, Inc.  
**Attn:** David Conner  
**Street Address:** 3761 Attucks Drive  
**City:** Powell **State:** OH **Zip:** 43065  
**Phone:** 614 298-5715 **Fax:** 614 762-2897  
**Email Address:** david.conner@tidet2o.net

**Project Description:** JPL-GW Monitoring  
**Project Code:** 2021  
**Sampler (s):** Blaine Tech

**Analysis Requested:**  
 VOCs EPA 524.2  
 TRM: Cr, Pb, As, Ca, Mg, K, Na, Fe  
 Hexavalent Cr: 218.6 (mg/L)  
 Cl, NO3, NO2, SO4, Perch.  
 CO3, HCO3, Alk, TDS, pH  
 Orthophosphate 365.1  
 1,4 Dioxane 8270SJM  
 NDMA 1625M

**Billing:**  
**Client:** Tidewater  
**Attn:** David Conner  
**Address:** 3761 Attucks Drive  
**City:** Powell **State:** OH **Zip:** 43065  
 Are there any tests with holding times? less than or equal to 48 hours?  
 Yes  No  
 \*Standard Turnaround = 10

Sample #	Sample Description	Date	Time	Matrix*
-11	MW-15	05/26/21	1030	GW
-12	MW-1	✓	1005	GW
-13	MW-9	✓	1355	GW

**Notes:**  
 ms/MSD  
 ms/MSD  
 ms/MSD

**Matrix Types:** S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other  
 24 Hr Rush  48 Hr Rush  3-5 Day Rush  
 \*Additional Charges May Apply

**Turnaround # of working days:**  24 Hr Rush  48 Hr Rush  Normal (10 - Days)

**Lab TAT Approval:** \_\_\_\_\_

**Comments:**  
 PLEASE NOTATE WHICH SAMPLES TO USE FOR OC (MS/MSD)  
 90% Level III and 10% Level IV data validation required; Level IV Notated on C of C  
 NOTE: ALL ANALYSIS REQUIRED TO HAVE CALIBRATION SUMMARIES (Inform QC)

**Cost Center:**  
 1. Relinquished By: \_\_\_\_\_ Date: 05/26/21 Time: 1520  
 2. Relinquished By: \_\_\_\_\_ Date: 05/26/21 Time: 1750  
 3. Relinquished By: \_\_\_\_\_ Date: 5/26/21 Time: 1950

**Global ID:** \_\_\_\_\_

BC Laboratories, Inc. 4100 Atlas Court - Bakersfield CA 93308 (661) 327-4911 Fax: (661) 327-1918 www.bclabs.com

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 2

Submission #: 21-16877

SHIPPING INFORMATION: Fed Ex  UPS  GSO / GLS  Hand Delivery  BC Lab Field Service  Other  (Specify) \_\_\_\_\_

SHIPPING CONTAINER: Ice Chest  None  Box  Other  (Specify) \_\_\_\_\_

FREE LIQUID: YES  NO  W / S

Refrigerant: Ice  Blue Ice  None  Other  Comments: \_\_\_\_\_

Custody Seals: Ice Chest  Containers  None  Comments: \_\_\_\_\_

All samples received? Yes  No  All samples containers intact? Yes  No  Description(s) match COC? Yes  No

COC Received: YES  NO

Emissivity: 0.97 Container: PE Thermometer ID: 208 Date/Time: 5/26/21 1950

Temperature: (A) 0.7 °C / (C) 0.7 °C Analyst Init: PRC

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES	E	E	E	E	E		AB PRES	E	E	E
4oz / 8oz / 16oz PE UNPRES										
2oz Cr <sup>6</sup>	D	D	D	D	D		A	D	D	D
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz (16oz)	F	F	F	F	F		C	F	F	F
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
3oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK						A				
40ml VOA VIAL	ABC	ABC	ABC	ABC	ABC			ABC	ABC	ABC
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL - 504										
QT EPA 508/608/808/1A										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 551.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: Did not receive Vocs for -7.

Sample Numbering Completed By: PRC Date/Time: 5/26/21 6015

A = Actual / C = Corrected

Rev 22 04/13/21 [S:\WPDoc\Word\PerfectLAB\_DOC6\FORMS\IQA\REC Rev 21]



BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 Of 2

Submission #: 21-16877

SHIPPING INFORMATION: Fed Ex  UPS  GSO / GLS  Hand Delivery  BC Lab Field Service  Other  (Specify) \_\_\_\_\_

SHIPPING CONTAINER: Ice Chest  None  Box  Other  (Specify) \_\_\_\_\_

FREE LIQUID: YES  NO  W / S

Refrigerant: Ice  Blue Ice  None  Other  Comments: \_\_\_\_\_

Custody Seals: Ice Chest  Containers  None  Comments: \_\_\_\_\_

All samples received? Yes  No  All samples containers intact? Yes  No  Description(s) match COC? Yes  No

COC Received:  YES  NO

Emissivity: 0.97 Container: PE Thermometer ID: 208

Temperature: (A) 0.9 °C / (C) 0.8 °C

Date/Time: 5/26/21 19:50

Analyst Init: PRC

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES	I	I	I							
4oz / 8oz / 16oz PE UNPRES										
2oz Cr <sup>6</sup>	GH	GH	GH							
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz (4oz)	KL	KL	KL							
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A-F	A-F	A-F							
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL - 504										
QT EPA 508/508/8081A										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 543										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: \_\_\_\_\_

Sample Numbering Completed By: PRC Date/Time: 5/27/21 0005

A = Actual / C = Corrected

Rev 22 04/13/21 [S:\WP\dot\Word\PerfectLAB\_DOC\SPDR\B5\SAHREC\rev 21]



Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>2116877-01</b>	<b>COC Number:</b> --- <b>Project Number:</b> NASA/JPL <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-17-5 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/26/2021 19:50 <b>Sampling Date:</b> 05/26/2021 09:05 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-17-5 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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<b>2116877-02</b>	<b>COC Number:</b> --- <b>Project Number:</b> NASA/JPL <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-17-4 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/26/2021 19:50 <b>Sampling Date:</b> 05/26/2021 09:40 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-17-4 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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<b>2116877-03</b>	<b>COC Number:</b> --- <b>Project Number:</b> NASA/JPL <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-17-3 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/26/2021 19:50 <b>Sampling Date:</b> 05/26/2021 10:45 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-17-3 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>2116877-04</b>	<b>COC Number:</b> --- <b>Project Number:</b> NASA/JPL <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-17-2 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/26/2021 19:50 <b>Sampling Date:</b> 05/26/2021 12:30 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-17-2 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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<b>2116877-05</b>	<b>COC Number:</b> --- <b>Project Number:</b> NASA/JPL <b>Sampling Location:</b> --- <b>Sampling Point:</b> DUP-5-2Q21 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/26/2021 19:50 <b>Sampling Date:</b> 05/26/2021 12:45 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): DUP-5-2Q21 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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<b>2116877-06</b>	<b>COC Number:</b> --- <b>Project Number:</b> NASA/JPL <b>Sampling Location:</b> --- <b>Sampling Point:</b> TB-7-052621 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/26/2021 19:50 <b>Sampling Date:</b> 05/26/2021 08:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-7-052621 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>2116877-07</b>	<b>COC Number:</b> --- <b>Project Number:</b> NASA/JPL <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-18-2 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/26/2021 19:50 <b>Sampling Date:</b> 05/25/2021 11:45 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-18-2 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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<b>2116877-08</b>	<b>COC Number:</b> --- <b>Project Number:</b> NASA/JPL <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-21-5 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/26/2021 19:50 <b>Sampling Date:</b> 05/26/2021 14:35 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-21-5 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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<b>2116877-09</b>	<b>COC Number:</b> --- <b>Project Number:</b> NASA/JPL <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-21-4 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/26/2021 19:50 <b>Sampling Date:</b> 05/26/2021 15:05 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-21-4 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>2116877-10</b>	<b>COC Number:</b> --- <b>Project Number:</b> NASA/JPL <b>Sampling Location:</b> --- <b>Sampling Point:</b> EB-7-052621 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/26/2021 19:50 <b>Sampling Date:</b> 05/26/2021 14:45 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-7-052621 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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<b>2116877-11</b>	<b>COC Number:</b> --- <b>Project Number:</b> NASA/JPL <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-15 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/26/2021 19:50 <b>Sampling Date:</b> 05/26/2021 10:30 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-15 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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<b>2116877-12</b>	<b>COC Number:</b> --- <b>Project Number:</b> NASA/JPL <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-1 <b>Sampled By:</b> BTST	<b>Receive Date:</b> 05/26/2021 19:50 <b>Sampling Date:</b> 05/26/2021 12:25 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-1 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>2116877-13</b>	<b>COC Number:</b> ---	<b>Receive Date:</b> 05/26/2021 19:50
	<b>Project Number:</b> NASA/JPL	<b>Sampling Date:</b> 05/26/2021 13:55
	<b>Sampling Location:</b> ---	<b>Sample Depth:</b> ---
	<b>Sampling Point:</b> MW-9	<b>Lab Matrix:</b> Water
	<b>Sampled By:</b> BTST	<b>Sample Type:</b> Water
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-9
		Matrix: WG
		Sample QC Type (SACode): CS
		Cooler ID:

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/22/2021 9:12  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2116877-01 Client Sample Name: NASA/JPL, MW-17-5, 5/26/2021 9:05:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Chloroform</b>	<b>0.57</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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3761 Attucks Drive  
Powell, OH 43065

Reported: 06/22/2021 9:12  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116877-01	<b>Client Sample Name:</b> NASA/JPL, MW-17-5, 5/26/2021 9:05:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Tetrachloroethene</b>	<b>0.48</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.23</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
<b>Trichloroethene</b>	<b>0.76</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.19</b>	<b>EPA-524.2</b>	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116877-01	<b>Client Sample Name:</b> NASA/JPL, MW-17-5, 5/26/2021 9:05:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	97.2	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/01/21 07:00	06/01/21 12:23	MGC	MS-V5	1	B110447	EPA 524.2

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Powell, OH 43065

**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116877-01	<b>Client Sample Name:</b> NASA/JPL, MW-17-5, 5/26/2021 9:05:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/01/21 07:00	06/01/21	12:23	MGC	MS-V5	1	B110447	EPA 524.2

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**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

BCL Sample ID: 2116877-01		Client Sample Name: NASA/JPL, MW-17-5, 5/26/2021 9:05:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	69	mg/L	0.10	0.014	EPA-200.7	0.026		1	
Total Recoverable Magnesium	19	mg/L	0.050	0.019	EPA-200.7	0.066	S11	1	
Total Recoverable Sodium	54	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	2.2	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	240	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	200	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	52	mg/L	0.50	0.13	EPA-300.0	ND		3	
Nitrate as N	8.4	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	60	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	8.13	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	480	mg/L	20	10	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	4.5	ug/L	4.0	0.81	EPA-314.0	ND		7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/10/21 21:20	06/11/21 14:24		AK1	PE-OP4	1	B111383	EPA 200.2
2	SM-2320B	06/01/21 07:00	06/01/21 12:35		RML	MET-1	1	B109503	No Prep
3	EPA-300.0	05/26/21 23:00	05/27/21 04:57		SAV	IC2	1	B110210	No Prep
4	EPA-150.1	06/01/21 07:00	06/01/21 12:35		RML	MET-1	1	B109503	No Prep
5	EPA-160.1	05/28/21 15:00	05/28/21 15:00		CAD	MANUAL	2	B110393	No Prep
6	EPA-353.2	05/27/21 08:40	05/27/21 09:38		MC1	KONE-1	1	B110515	No Prep
7	EPA-314.0	06/07/21 09:00	06/08/21 00:05		GSP	IC6	1	B110987	No Prep

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**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116877-01	<b>Client Sample Name:</b> NASA/JPL, MW-17-5, 5/26/2021 9:05:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00067	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Arsenic	1.2	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	1.5	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	160	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	0.21	ug/L	1.0	0.10	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/02/21 20:30	06/03/21 08:00		SAV	IC-4	1	B110700	No Prep
2	EPA-200.8	06/09/21 21:35	06/10/21 10:43		KHS	PE-EL4	1	B111276	EPA 200.2
3	EPA-200.7	06/10/21 21:20	06/11/21 14:24		AK1	PE-OP4	1	B111383	EPA 200.2

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Reported: 06/22/2021 9:12  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116877-02	<b>Client Sample Name:</b> NASA/JPL, MW-17-4, 5/26/2021 9:40:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Chloroform</b>	<b>0.45</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 06/22/2021 9:12
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2116877-02) and Client Sample Name (NASA/JPL, MW-17-4, 5/26/2021 9:40:00AM)

Main data table with columns: Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quads, Run #. Lists various chemical constituents and their detection results.

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Reported: 06/22/2021 9:12  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116877-02	<b>Client Sample Name:</b> NASA/JPL, MW-17-4, 5/26/2021 9:40:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	98.4	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/01/21 07:00	06/01/21 12:47	MGC	MS-V5	1	B110447	EPA 524.2

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**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116877-02	<b>Client Sample Name:</b> NASA/JPL, MW-17-4, 5/26/2021 9:40:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/01/21 07:00	06/01/21	12:47	MGC	MS-V5	1	B110447	EPA 524.2

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**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### 1,4-Dioxane (EPA Method 8270C)

<b>BCL Sample ID:</b> 2116877-02	<b>Client Sample Name:</b> NASA/JPL, MW-17-4, 5/26/2021 9:40:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,4-Dioxane	ND	ug/L	1.0	0.27	EPA-8270C	ND		1
Naphthalene-d8 (Surrogate)	94.7	%	70 - 130 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-8270C	05/28/21 21:30	06/03/21	19:07	OLH	MS-B4	0.970	B110871	EPA 3510C

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**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

BCL Sample ID: 2116877-02		Client Sample Name: NASA/JPL, MW-17-4, 5/26/2021 9:40:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	67	mg/L	0.10	0.014	EPA-200.7	0.026		1	
Total Recoverable Magnesium	19	mg/L	0.050	0.019	EPA-200.7	0.066	S11	1	
Total Recoverable Sodium	51	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	2.1	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	240	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	200	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	53	mg/L	0.50	0.13	EPA-300.0	ND		3	
Nitrate as N	8.6	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	60	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	8.07	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	490	mg/L	33	17	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	4.6	ug/L	4.0	0.81	EPA-314.0	ND		7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/10/21 21:20	06/11/21 14:32		AK1	PE-OP4	1	B111383	EPA 200.2
2	SM-2320B	06/01/21 07:00	06/01/21 12:40		RML	MET-1	1	B109503	No Prep
3	EPA-300.0	05/26/21 23:00	05/27/21 05:18		SAV	IC2	1	B110210	No Prep
4	EPA-150.1	06/01/21 07:00	06/01/21 12:40		RML	MET-1	1	B109503	No Prep
5	EPA-160.1	05/28/21 15:00	05/28/21 15:00		CAD	MANUAL	3.333	B110393	No Prep
6	EPA-353.2	05/27/21 08:40	05/27/21 09:38		MC1	KONE-1	1	B110515	No Prep
7	EPA-314.0	06/07/21 09:00	06/08/21 00:20		GSP	IC6	1	B110987	No Prep

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**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116877-02	<b>Client Sample Name:</b> NASA/JPL, MW-17-4, 5/26/2021 9:40:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00077	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Arsenic	2.1	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	1.3	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	48	ug/L	50	30	EPA-200.7	ND	J	3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/02/21 20:30	06/03/21 08:10		SAV	IC-4	1	B110700	No Prep
2	EPA-200.8	06/09/21 21:35	06/10/21 10:45		KHS	PE-EL4	1	B111276	EPA 200.2
3	EPA-200.7	06/10/21 21:20	06/11/21 14:32		AK1	PE-OP4	1	B111383	EPA 200.2

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Reported: 06/22/2021 9:12  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116877-03	<b>Client Sample Name:</b> NASA/JPL, MW-17-3, 5/26/2021 10:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Chloroform</b>	<b>0.16</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 06/22/2021 9:12
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2116877-03) and Client Sample Name (NASA/JPL, MW-17-3, 5/26/2021 10:45:00AM)

Main data table with columns: Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Lists various chemical compounds and their test results.

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Powell, OH 43065

**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116877-03	<b>Client Sample Name:</b> NASA/JPL, MW-17-3, 5/26/2021 10:45:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	99.0	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/01/21 07:00	06/01/21 13:11	MGC	MS-V5	1	B110447	EPA 524.2

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**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116877-03	<b>Client Sample Name:</b> NASA/JPL, MW-17-3, 5/26/2021 10:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/01/21 07:00	06/01/21	13:11	MGC	MS-V5	1	B110447	EPA 524.2

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Reported: 06/22/2021 9:12
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with 9 columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with 10 columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows 1-7 detailing analysis parameters for each run.

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**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116877-03	<b>Client Sample Name:</b> NASA/JPL, MW-17-3, 5/26/2021 10:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000051	mg/L	0.00020	0.000020	EPA-218.6	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	580	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/02/21 20:30	06/03/21 08:20		SAV	IC-4	1	B110700	No Prep
2	EPA-200.8	06/09/21 21:35	06/10/21 10:47		KHS	PE-EL4	1	B111276	EPA 200.2
3	EPA-200.7	06/10/21 21:20	06/11/21 14:34		AK1	PE-OP4	1	B111383	EPA 200.2

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Reported: 06/22/2021 9:12  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2116877-04 Client Sample Name: NASA/JPL, MW-17-2, 5/26/2021 12:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116877-04	<b>Client Sample Name:</b> NASA/JPL, MW-17-2, 5/26/2021 12:30:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Reported: 06/22/2021 9:12  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116877-04	<b>Client Sample Name:</b> NASA/JPL, MW-17-2, 5/26/2021 12:30:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	97.6	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/01/21 07:00	06/01/21 13:35	MGC	MS-V5	1	B110447	EPA 524.2

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**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116877-04	<b>Client Sample Name:</b> NASA/JPL, MW-17-2, 5/26/2021 12:30:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/01/21 07:00	06/01/21	13:35	MGC	MS-V5	1	B110447	EPA 524.2

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Reported: 06/22/2021 9:12
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with 10 columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with 10 columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows 1-7 detailing analysis parameters for each run.

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**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116877-04	<b>Client Sample Name:</b> NASA/JPL, MW-17-2, 5/26/2021 12:30:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000070	mg/L	0.00020	0.000020	EPA-218.6	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
<b>Total Recoverable Iron</b>	<b>140</b>	<b>ug/L</b>	<b>50</b>	<b>30</b>	<b>EPA-200.7</b>	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/02/21 20:30	06/03/21 08:29		SAV	IC-4	1	B110700	No Prep
2	EPA-200.8	06/09/21 21:35	06/10/21 10:49		KHS	PE-EL4	1	B111276	EPA 200.2
3	EPA-200.7	06/10/21 21:20	06/11/21 14:37		AK1	PE-OP4	1	B111383	EPA 200.2

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Reported: 06/22/2021 9:12
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2116877-05) and Client Sample Name (NASA/JPL, DUP-5-2Q21, 5/26/2021 12:45:00PM)

Main data table with columns: Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quads, Run #. Lists various chemical compounds and their detection results.

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Reported: 06/22/2021 9:12  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2116877-05		Client Sample Name: NASA/JPL, DUP-5-2Q21, 5/26/2021 12:45:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Reported: 06/22/2021 9:12  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116877-05	<b>Client Sample Name:</b> NASA/JPL, DUP-5-2Q21, 5/26/2021 12:45:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	104	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/01/21 07:00	06/01/21 14:00	MGC	MS-V5	1	B110447	EPA 524.2

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**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116877-05	<b>Client Sample Name:</b> NASA/JPL, DUP-5-2Q21, 5/26/2021 12:45:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/01/21 07:00	06/01/21	14:00	MGC	MS-V5	1	B110447	EPA 524.2

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**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

BCL Sample ID: 2116877-05		Client Sample Name: NASA/JPL, DUP-5-2Q21, 5/26/2021 12:45:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	52	mg/L	0.10	0.014	EPA-200.7	0.026		1	
Total Recoverable Magnesium	20	mg/L	0.050	0.019	EPA-200.7	0.066	S11	1	
Total Recoverable Sodium	20	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	2.8	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	260	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	220	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	9.0	mg/L	0.50	0.13	EPA-300.0	ND		3	
Nitrate as N	0.11	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	30	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	8.27	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	320	mg/L	20	10	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/10/21 21:20	06/11/21 14:39		AK1	PE-OP4	1	B111383	EPA 200.2
2	SM-2320B	06/01/21 07:00	06/01/21 12:58		RML	MET-1	1	B109503	No Prep
3	EPA-300.0	05/26/21 23:00	05/27/21 07:21		SAV	IC2	1	B110210	No Prep
4	EPA-150.1	06/01/21 07:00	06/01/21 12:58		RML	MET-1	1	B109503	No Prep
5	EPA-160.1	05/28/21 15:00	05/28/21 15:00		CAD	MANUAL	2	B110393	No Prep
6	EPA-353.2	05/27/21 08:40	05/27/21 09:41		MC1	KONE-1	1	B110515	No Prep
7	EPA-314.0	06/07/21 09:00	06/07/21 12:19		ANK	IC6	1	B110987	No Prep

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**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116877-05	<b>Client Sample Name:</b> NASA/JPL, DUP-5-2Q21, 5/26/2021 12:45:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000047	mg/L	0.00020	0.000020	EPA-218.6	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
<b>Total Recoverable Iron</b>	<b>130</b>	<b>ug/L</b>	<b>50</b>	<b>30</b>	<b>EPA-200.7</b>	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/02/21 20:30	06/03/21 08:39		SAV	IC-4	1	B110700	No Prep
2	EPA-200.8	06/09/21 21:35	06/10/21 12:32		ARD	PE-EL4	1	B111277	EPA 200.2
3	EPA-200.7	06/10/21 21:20	06/11/21 14:39		AK1	PE-OP4	1	B111383	EPA 200.2

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Reported: 06/22/2021 9:12  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116877-06	<b>Client Sample Name:</b> NASA/JPL, TB-7-052621, 5/26/2021 8:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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**Reported:** 06/22/2021 9:12  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116877-06	<b>Client Sample Name:</b> NASA/JPL, TB-7-052621, 5/26/2021 8:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116877-06	<b>Client Sample Name:</b> NASA/JPL, TB-7-052621, 5/26/2021 8:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/01/21 07:00	06/01/21 14:24	MGC	MS-V5	1	B110447	EPA 524.2

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**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116877-06	<b>Client Sample Name:</b> NASA/JPL, TB-7-052621, 5/26/2021 8:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/01/21 07:00	06/01/21	14:24	MGC	MS-V5	1	B110447	EPA 524.2

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Reported: 06/22/2021 9:12
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows 1-7 detailing sample preparation and QC information.

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**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116877-07	<b>Client Sample Name:</b> NASA/JPL, MW-18-2, 5/25/2021 11:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000082	mg/L	0.00020	0.000020	EPA-218.6	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	570	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/02/21 20:30	06/03/21 08:48		SAV	IC-4	1	B110700	No Prep
2	EPA-200.8	06/09/21 21:35	06/10/21 12:34		ARD	PE-EL4	1	B111277	EPA 200.2
3	EPA-200.7	06/10/21 21:20	06/11/21 14:43		AK1	PE-OP4	1	B111383	EPA 200.2

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Reported: 06/22/2021 9:12  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2116877-08 Client Sample Name: NASA/JPL, MW-21-5, 5/26/2021 2:35:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Chloroform</b>	<b>4.2</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 06/22/2021 9:12
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2116877-08) and Client Sample Name (NASA/JPL, MW-21-5, 5/26/2021 2:35:00PM)

Main data table with columns: Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quads, Run #. Lists various chemical compounds and their detection results.

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**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116877-08	<b>Client Sample Name:</b> NASA/JPL, MW-21-5, 5/26/2021 2:35:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/01/21 07:00	06/01/21 14:48	MGC	MS-V5	1	B110447	EPA 524.2

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**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116877-08	<b>Client Sample Name:</b> NASA/JPL, MW-21-5, 5/26/2021 2:35:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/01/21 07:00	06/01/21	14:48	MGC	MS-V5	1	B110447	EPA 524.2

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Reported: 06/22/2021 9:12
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows 1-7 detailing analysis parameters for each run.

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**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116877-08	<b>Client Sample Name:</b> NASA/JPL, MW-21-5, 5/26/2021 2:35:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00061	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	66	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	0.16	ug/L	1.0	0.10	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/02/21 20:30	06/03/21 08:58		SAV	IC-4	1	B110700	No Prep
2	EPA-200.8	06/09/21 21:35	06/10/21 12:36		ARD	PE-EL4	1	B111277	EPA 200.2
3	EPA-200.7	06/10/21 21:20	06/11/21 14:45		AK1	PE-OP4	1	B111383	EPA 200.2

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Reported: 06/22/2021 9:12  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2116877-09 Client Sample Name: NASA/JPL, MW-21-4, 5/26/2021 3:05:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Chloroform</b>	<b>3.1</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 06/22/2021 9:12
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2116877-09) and Client Sample Name (NASA/JPL, MW-21-4, 5/26/2021 3:05:00PM)

Main data table with columns: Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quads, Run #. Lists various chemical compounds and their detection results.

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**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116877-09	<b>Client Sample Name:</b> NASA/JPL, MW-21-4, 5/26/2021 3:05:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/01/21 07:00	06/01/21 15:13	MGC	MS-V5	1	B110447	EPA 524.2

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**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116877-09	<b>Client Sample Name:</b> NASA/JPL, MW-21-4, 5/26/2021 3:05:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/01/21 07:00	06/01/21	15:13	MGC	MS-V5	1	B110447	EPA 524.2

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Powell, OH 43065

Reported: 06/22/2021 9:12
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows 1-7 detailing analysis parameters for each run.

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**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116877-09	<b>Client Sample Name:</b> NASA/JPL, MW-21-4, 5/26/2021 3:05:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00076	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	48	ug/L	50	30	EPA-200.7	ND	J	3
Total Recoverable Lead	0.10	ug/L	1.0	0.10	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-218.6	06/02/21 20:30	06/03/21 09:08	SAV	IC-4	1	B110700	No Prep
2	EPA-200.8	06/09/21 21:35	06/10/21 12:38	ARD	PE-EL4	1	B111277	EPA 200.2
3	EPA-200.7	06/10/21 21:20	06/11/21 14:48	AK1	PE-OP4	1	B111383	EPA 200.2

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Reported: 06/22/2021 9:12  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116877-10	<b>Client Sample Name:</b> NASA/JPL, EB-7-052621, 5/26/2021 2:45:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 06/22/2021 9:12
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2116877-10) and Client Sample Name (NASA/JPL, EB-7-052621, 5/26/2021 2:45:00PM)

Main data table with columns: Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quads, Run #. Lists various chemical compounds and their analysis results.

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Reported: 06/22/2021 9:12  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116877-10	<b>Client Sample Name:</b> NASA/JPL, EB-7-052621, 5/26/2021 2:45:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	105	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/01/21 07:00	06/01/21 15:37	MGC	MS-V5	1	B110447	EPA 524.2

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**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116877-10	<b>Client Sample Name:</b> NASA/JPL, EB-7-052621, 5/26/2021 2:45:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/01/21 07:00	06/01/21 15:37		MGC	MS-V5	1	B110447	EPA 524.2

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**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

BCL Sample ID: 2116877-10		Client Sample Name: NASA/JPL, EB-7-052621, 5/26/2021 2:45:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	0.043	mg/L	0.10	0.014	EPA-200.7	0.026	J	1	
Total Recoverable Magnesium	ND	mg/L	0.050	0.019	EPA-200.7	0.066	S11	1	
Total Recoverable Sodium	0.17	mg/L	0.50	0.051	EPA-200.7	ND	J	1	
Total Recoverable Potassium	ND	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	ND	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	ND	mg/L	0.50	0.13	EPA-300.0	ND		3	
Nitrate as N	ND	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	ND	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	6.03	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	4.0	mg/L	6.7	3.3	EPA-160.1	ND	J	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/10/21 21:20	06/11/21 14:50		AK1	PE-OP4	1	B111383	EPA 200.2
2	SM-2320B	06/01/21 07:00	06/01/21 13:51		RML	MET-1	1	B109504	No Prep
3	EPA-300.0	05/26/21 23:00	05/27/21 06:40		SAV	IC2	1	B110210	No Prep
4	EPA-150.1	06/01/21 07:00	06/01/21 13:51		RML	MET-1	1	B109504	No Prep
5	EPA-160.1	05/28/21 15:00	05/28/21 15:00		CAD	MANUAL	0.667	B110394	No Prep
6	EPA-353.2	05/27/21 08:40	05/27/21 09:41		MC1	KONE-1	1	B110515	No Prep
7	EPA-314.0	06/07/21 09:00	06/07/21 13:51		ANK	IC6	1	B110987	No Prep

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**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116877-10	<b>Client Sample Name:</b> NASA/JPL, EB-7-052621, 5/26/2021 2:45:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000062	mg/L	0.00020	0.000020	EPA-218.6	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/02/21 20:30	06/03/21 09:36		SAV	IC-4	1	B110700	No Prep
2	EPA-200.8	06/10/21 18:10	06/11/21 13:26		KHS	PE-EL2	1	B111381	EPA 200.2
3	EPA-200.7	06/10/21 21:20	06/11/21 14:50		AK1	PE-OP4	1	B111383	EPA 200.2

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Reported: 06/22/2021 9:12  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116877-11	<b>Client Sample Name:</b> NASA/JPL, MW-15, 5/26/2021 10:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 06/22/2021 9:12
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2116877-11) and Client Sample Name (NASA/JPL, MW-15, 5/26/2021 10:30:00AM)

Main data table with 9 columns: Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quads, Run #. Lists various chemical compounds and their analysis results.

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Reported: 06/22/2021 9:12  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116877-11	<b>Client Sample Name:</b> NASA/JPL, MW-15, 5/26/2021 10:30:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	91.5	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/01/21 07:00	06/01/21 09:57	MGC	MS-V5	1	B110447	EPA 524.2

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**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116877-11	<b>Client Sample Name:</b> NASA/JPL, MW-15, 5/26/2021 10:30:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/01/21 07:00	06/01/21	09:57	MGC	MS-V5	1	B110447	EPA 524.2

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**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

BCL Sample ID: 2116877-11		Client Sample Name: NASA/JPL, MW-15, 5/26/2021 10:30:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	58	mg/L	0.10	0.014	EPA-200.7	0.026		1	
Total Recoverable Magnesium	19	mg/L	0.050	0.019	EPA-200.7	0.066	S11	1	
Total Recoverable Sodium	27	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	2.9	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	250	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	200	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	26	mg/L	0.50	0.13	EPA-300.0	ND		3	
Nitrate as N	0.49	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	51	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	7.62	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	390	mg/L	20	10	EPA-160.1	ND	A07	5	
Nitrite as N	0.012	mg/L	0.050	0.010	EPA-353.2	0.010	J	6	
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/10/21 21:20	06/11/21 13:59		AK1	PE-OP4	1	B111383	EPA 200.2
2	SM-2320B	06/01/21 07:00	06/01/21 13:20		RML	MET-1	1	B109504	No Prep
3	EPA-300.0	05/26/21 23:00	05/27/21 03:34		SAV	IC2	1	B110210	No Prep
4	EPA-150.1	06/01/21 07:00	06/01/21 13:20		RML	MET-1	1	B109504	No Prep
5	EPA-160.1	05/28/21 15:00	05/28/21 15:00		CAD	MANUAL	2	B110393	No Prep
6	EPA-353.2	05/27/21 08:40	05/27/21 08:41		MC1	KONE-1	1	B110513	No Prep
7	EPA-314.0	06/07/21 09:00	06/07/21 14:07		ANK	IC6	1	B110987	No Prep

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**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116877-11	<b>Client Sample Name:</b> NASA/JPL, MW-15, 5/26/2021 10:30:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00052	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Arsenic	0.70	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	0.58	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/02/21 20:30	06/03/21 09:46		SAV	IC-4	1	B110700	No Prep
2	EPA-200.8	06/09/21 21:35	06/10/21 09:26		KHS	PE-EL4	1	B111276	EPA 200.2
3	EPA-200.7	06/10/21 21:20	06/11/21 13:59		AK1	PE-OP4	1	B111383	EPA 200.2

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Reported: 06/22/2021 9:12
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2116877-12) and Client Sample Name (NASA/JPL, MW-1, 5/26/2021 12:25:00PM)

Main data table with columns: Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quads, Run #. Lists various organic compounds and their detection results.

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Reported: 06/22/2021 9:12
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2116877-12) and Client Sample Name (NASA/JPL, MW-1, 5/26/2021 12:25:00PM)

Main data table with 9 columns: Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quads, Run #. Lists various chemical compounds and their analysis results.

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**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116877-12	<b>Client Sample Name:</b> NASA/JPL, MW-1, 5/26/2021 12:25:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/01/21 09:00	06/01/21 16:26	MGC	MS-V5	1	B110448	EPA 524.2

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**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116877-12	<b>Client Sample Name:</b> NASA/JPL, MW-1, 5/26/2021 12:25:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/01/21 09:00	06/01/21 16:26		MGC	MS-V5	1	B110448	EPA 524.2

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Reported: 06/22/2021 9:12
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with 9 columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with 10 columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows 1-7 detailing analysis parameters for each run.

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**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2116877-12	<b>Client Sample Name:</b> NASA/JPL, MW-1, 5/26/2021 12:25:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000041	mg/L	0.00020	0.000020	EPA-218.6	0.000023	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/02/21 20:30	06/03/21 10:44		SAV	IC-4	1	B110701	No Prep
2	EPA-200.8	06/09/21 21:35	06/10/21 12:09		ARD	PE-EL4	1	B111277	EPA 200.2
3	EPA-200.7	06/10/21 21:20	06/11/21 15:33		AK1	PE-OP4	1	B111384	EPA 200.2

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Reported: 06/22/2021 9:12
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2116877-13) and Client Sample Name (NASA/JPL, MW-9, 5/26/2021 1:55:00PM)

Main data table with columns: Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quads, Run #. Lists various chemical compounds and their detection results.

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Reported: 06/22/2021 9:12
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2116877-13) and Client Sample Name (NASA/JPL, MW-9, 5/26/2021 1:55:00PM)

Main data table with columns: Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Lists various chemical compounds and their analysis results.

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Reported: 06/22/2021 9:12  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2116877-13	<b>Client Sample Name:</b> NASA/JPL, MW-9, 5/26/2021 1:55:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/01/21 12:00	06/01/21 21:43	MGC	MS-V5	1	B110449	EPA 524.2

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**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2116877-13	<b>Client Sample Name:</b> NASA/JPL, MW-9, 5/26/2021 1:55:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/01/21 12:00	06/01/21	21:43	MGC	MS-V5	1	B110449	EPA 524.2

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Reported: 06/22/2021 9:12  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Water Analysis (General Chemistry)

BCL Sample ID: 2116877-13		Client Sample Name: NASA/JPL, MW-9, 5/26/2021 1:55:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	54	mg/L	0.10	0.014	EPA-200.7	0.016		1	
Total Recoverable Magnesium	18	mg/L	0.050	0.019	EPA-200.7	0.048		1	
Total Recoverable Sodium	22	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	3.0	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	210	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	180	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	22	mg/L	0.50	0.13	EPA-300.0	ND		3	
Nitrate as N	2.1	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	37	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	7.45	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	340	mg/L	20	10	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/10/21 21:45	06/11/21 13:05		AK1	PE-OP4	1	B111385	EPA 200.2
2	SM-2320B	06/01/21 07:00	06/01/21 14:02		RML	MET-1	1	B109504	No Prep
3	EPA-300.0	05/26/21 18:00	05/27/21 03:23		SAV	IC1	1	B110213	No Prep
4	EPA-150.1	06/01/21 07:00	06/01/21 14:02		RML	MET-1	1	B109504	No Prep
5	EPA-160.1	05/28/21 15:00	05/28/21 15:00		CAD	MANUAL	2	B110394	No Prep
6	EPA-353.2	05/27/21 08:40	05/27/21 09:38		MC1	KONE-1	1	B110515	No Prep
7	EPA-314.0	06/07/21 09:00	06/07/21 17:41		GSP	IC6	1	B110989	No Prep

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**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

BCL Sample ID: 2116877-13		Client Sample Name: NASA/JPL, MW-9, 5/26/2021 1:55:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Hexavalent Chromium	0.00046	mg/L	0.00020	0.000020	EPA-218.6	ND		1	
Total Recoverable Arsenic	0.75	ug/L	2.0	0.70	EPA-200.8	ND	J	2	
Total Recoverable Chromium	3.0	ug/L	3.0	0.50	EPA-200.8	ND		2	
Total Recoverable Iron	130	ug/L	50	30	EPA-200.7	ND		3	
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/02/21 20:30	06/03/21 12:00		SAV	IC-4	1	B110702	No Prep
2	EPA-200.8	06/10/21 18:10	06/11/21 13:10		KHS	PE-EL2	1	B111381	EPA 200.2
3	EPA-200.7	06/10/21 21:45	06/11/21 13:05		AK1	PE-OP4	1	B111385	EPA 200.2

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Reported: 06/22/2021 9:12  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110447</b>						
Benzene	B110447-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B110447-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B110447-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B110447-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B110447-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B110447-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B110447-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B110447-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B110447-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B110447-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B110447-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B110447-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B110447-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B110447-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B110447-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B110447-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B110447-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B110447-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B110447-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B110447-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B110447-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B110447-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B110447-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B110447-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B110447-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B110447-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B110447-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B110447-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B110447-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B110447-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B110447-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B110447-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B110447-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B110447-BLK1	ND	ug/L	0.50	0.14	

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**Reported:** 06/22/2021 9:12  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110447</b>						
trans-1,3-Dichloropropene	B110447-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B110447-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B110447-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B110447-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B110447-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B110447-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B110447-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B110447-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B110447-BLK1	ND	ug/L	0.50	0.12	
Styrene	B110447-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B110447-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2-Tetrachloroethane	B110447-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B110447-BLK1	ND	ug/L	0.50	0.23	
Toluene	B110447-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B110447-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B110447-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B110447-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B110447-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B110447-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B110447-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B110447-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B110447-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B110447-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B110447-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B110447-BLK1	ND	ug/L	0.50	0.18	
Acetone	B110447-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B110447-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B110447-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B110447-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B110447-BLK1	ND	ug/L	2.0	2.0	
Carbon disulfide	B110447-BLK1	ND	ug/L	0.50	0.48	
trans-1,4-Dichloro-2-butene	B110447-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B110447-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B110447-BLK1	ND	ug/L	4.0	1.3	

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Reported: 06/22/2021 9:12
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Table with 7 columns: Constituent, QC Sample ID, MB Result, Units, PQL, MDL, Lab Quals

QC Batch ID: B110447

Main data table for QC Batch B110447 listing various compounds and their results.

QC Batch ID: B110448

Main data table for QC Batch B110448 listing various compounds and their results.

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Reported: 06/22/2021 9:12  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110448</b>						
Dibromochloromethane	B110448-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B110448-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B110448-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B110448-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B110448-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B110448-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B110448-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B110448-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B110448-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B110448-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B110448-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B110448-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B110448-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B110448-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B110448-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B110448-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B110448-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B110448-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	B110448-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B110448-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B110448-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B110448-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B110448-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B110448-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B110448-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B110448-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B110448-BLK1	ND	ug/L	0.50	0.12	
Styrene	B110448-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B110448-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2,2-Tetrachloroethane	B110448-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B110448-BLK1	ND	ug/L	0.50	0.23	
Toluene	B110448-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B110448-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B110448-BLK1	ND	ug/L	0.50	0.15	

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Reported: 06/22/2021 9:12
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Table with 7 columns: Constituent, QC Sample ID, MB Result, Units, PQL, MDL, Lab Quals. Includes a QC Batch ID: B110448 and a list of 30 chemical constituents with their respective results and limits.

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Reported: 06/22/2021 9:12  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110449</b>						
Benzene	B110449-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B110449-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B110449-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B110449-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B110449-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B110449-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B110449-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B110449-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B110449-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B110449-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B110449-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B110449-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B110449-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B110449-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B110449-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B110449-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B110449-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B110449-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B110449-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B110449-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B110449-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B110449-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B110449-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B110449-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B110449-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B110449-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B110449-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B110449-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B110449-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B110449-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B110449-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B110449-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B110449-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B110449-BLK1	ND	ug/L	0.50	0.14	

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**Reported:** 06/22/2021 9:12  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110449</b>						
trans-1,3-Dichloropropene	B110449-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B110449-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B110449-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B110449-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B110449-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B110449-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B110449-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B110449-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B110449-BLK1	ND	ug/L	0.50	0.12	
Styrene	B110449-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B110449-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2-Tetrachloroethane	B110449-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B110449-BLK1	ND	ug/L	0.50	0.23	
Toluene	B110449-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B110449-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B110449-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B110449-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B110449-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B110449-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B110449-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B110449-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B110449-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B110449-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B110449-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B110449-BLK1	ND	ug/L	0.50	0.18	
Acetone	B110449-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B110449-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B110449-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B110449-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B110449-BLK1	ND	ug/L	2.0	2.0	
Carbon disulfide	B110449-BLK1	ND	ug/L	0.50	0.48	
trans-1,4-Dichloro-2-butene	B110449-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B110449-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B110449-BLK1	ND	ug/L	4.0	1.3	

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**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110449</b>						
Ethyl t-butyl ether	B110449-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B110449-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B110449-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B110449-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B110449-BLK1	ND	ug/L	5.0	3.3	
Methyl iodide	B110449-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B110449-BLK1	ND	ug/L	5.0	2.4	
Methyl methacrylate	B110449-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B110449-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B110449-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B110449-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B110449-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B110449-BLK1	ND	ug/L	0.50	0.13	
<b>1,2-Dichloroethane-d4 (Surrogate)</b>	<b>B110449-BLK1</b>	<b>107</b>	<b>%</b>	<b>75 - 125 (LCL - UCL)</b>		
<b>Toluene-d8 (Surrogate)</b>	<b>B110449-BLK1</b>	<b>102</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		
<b>4-Bromofluorobenzene (Surrogate)</b>	<b>B110449-BLK1</b>	<b>101</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		

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Reported: 06/22/2021 9:12
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Table with columns: Constituent, QC Sample ID, Type, Result, Spike Level, Units, Percent Recovery, RPD, Control Limits (Percent Recovery, RPD), Lab (Quals). Contains three sections for QC Batch IDs B110447, B110448, and B110449.

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**Reported:** 06/22/2021 9:12  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: B110449</b>										
Toluene	B110449-BS1	LCS	23.930	25.000	ug/L	95.7		70 - 130		
Trichloroethene	B110449-BS1	LCS	27.150	25.000	ug/L	109		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B110449-BS1	LCS	10.730	10.000	ug/L	107		75 - 125		
Toluene-d8 (Surrogate)	B110449-BS1	LCS	10.000	10.000	ug/L	100		80 - 120		
4-Bromofluorobenzene (Surrogate)	B110449-BS1	LCS	10.680	10.000	ug/L	107		80 - 120		

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Reported: 06/22/2021 9:12  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: B110447</b>		Used client sample: Y - Description: MW-15, 05/26/2021 10:30								
Benzene	MS	2116877-11	ND	22.160	25.000	ug/L		88.6		70 - 130
	MSD	2116877-11	ND	22.130	25.000	ug/L	0.1	88.5	20	70 - 130
Bromodichloromethane	MS	2116877-11	ND	25.800	25.000	ug/L		103		70 - 130
	MSD	2116877-11	ND	26.360	25.000	ug/L	2.1	105	20	70 - 130
Chlorobenzene	MS	2116877-11	ND	24.210	25.000	ug/L		96.8		70 - 130
	MSD	2116877-11	ND	24.810	25.000	ug/L	2.4	99.2	20	70 - 130
Chloroethane	MS	2116877-11	ND	22.370	25.000	ug/L		89.5		70 - 130
	MSD	2116877-11	ND	22.280	25.000	ug/L	0.4	89.1	20	70 - 130
1,4-Dichlorobenzene	MS	2116877-11	ND	23.970	25.000	ug/L		95.9		70 - 130
	MSD	2116877-11	ND	25.090	25.000	ug/L	4.6	100	20	70 - 130
1,1-Dichloroethane	MS	2116877-11	ND	23.140	25.000	ug/L		92.6		70 - 130
	MSD	2116877-11	ND	23.170	25.000	ug/L	0.1	92.7	20	70 - 130
1,1-Dichloroethene	MS	2116877-11	ND	24.580	25.000	ug/L		98.3		70 - 130
	MSD	2116877-11	ND	24.390	25.000	ug/L	0.8	97.6	20	70 - 130
Toluene	MS	2116877-11	ND	24.830	25.000	ug/L		99.3		70 - 130
	MSD	2116877-11	ND	24.090	25.000	ug/L	3.0	96.4	20	70 - 130
Trichloroethene	MS	2116877-11	ND	24.260	25.000	ug/L		97.0		70 - 130
	MSD	2116877-11	ND	24.570	25.000	ug/L	1.3	98.3	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	2116877-11	ND	9.4300	10.000	ug/L		94.3		75 - 125
	MSD	2116877-11	ND	9.5600	10.000	ug/L	1.4	95.6		75 - 125
Toluene-d8 (Surrogate)	MS	2116877-11	ND	10.050	10.000	ug/L		100		80 - 120
	MSD	2116877-11	ND	9.7100	10.000	ug/L	3.4	97.1		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	2116877-11	ND	10.170	10.000	ug/L		102		80 - 120
	MSD	2116877-11	ND	10.350	10.000	ug/L	1.8	104		80 - 120

<b>QC Batch ID: B110448</b>		Used client sample: Y - Description: MW-1, 05/26/2021 12:25								
Benzene	MS	2116877-12	ND	22.330	25.000	ug/L		89.3		70 - 130
	MSD	2116877-12	ND	22.080	25.000	ug/L	1.1	88.3	20	70 - 130
Bromodichloromethane	MS	2116877-12	ND	27.530	25.000	ug/L		110		70 - 130
	MSD	2116877-12	ND	28.250	25.000	ug/L	2.6	113	20	70 - 130
Chlorobenzene	MS	2116877-12	ND	23.980	25.000	ug/L		95.9		70 - 130
	MSD	2116877-12	ND	24.100	25.000	ug/L	0.5	96.4	20	70 - 130
Chloroethane	MS	2116877-12	ND	23.040	25.000	ug/L		92.2		70 - 130
	MSD	2116877-12	ND	22.450	25.000	ug/L	2.6	89.8	20	70 - 130
1,4-Dichlorobenzene	MS	2116877-12	ND	24.860	25.000	ug/L		99.4		70 - 130
	MSD	2116877-12	ND	24.590	25.000	ug/L	1.1	98.4	20	70 - 130
1,1-Dichloroethane	MS	2116877-12	ND	24.130	25.000	ug/L		96.5		70 - 130
	MSD	2116877-12	ND	23.940	25.000	ug/L	0.8	95.8	20	70 - 130

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Reported: 06/22/2021 9:12
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Qualls. Includes two QC batches: B110448 and B110449.

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**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2) TICs

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
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**QC Batch ID: B110447**

Chloroacetonitrile	B110447-BLK1	0	ug/L			
1-Chlorobutane	B110447-BLK1	0	ug/L			
1,1-Dichloropropanone	B110447-BLK1	0	ug/L			
Methyl acrylate	B110447-BLK1	0	ug/L			
Nitrobenzene	B110447-BLK1	0	ug/L			
2-Nitropropane	B110447-BLK1	0	ug/L			

**QC Batch ID: B110448**

Chloroacetonitrile	B110448-BLK1	0	ug/L			
1-Chlorobutane	B110448-BLK1	0	ug/L			
1,1-Dichloropropanone	B110448-BLK1	0	ug/L			
Methyl acrylate	B110448-BLK1	0	ug/L			
Nitrobenzene	B110448-BLK1	0	ug/L			
2-Nitropropane	B110448-BLK1	0	ug/L			

**QC Batch ID: B110449**

Chloroacetonitrile	B110449-BLK1	0	ug/L			
1-Chlorobutane	B110449-BLK1	0	ug/L			
1,1-Dichloropropanone	B110449-BLK1	0	ug/L			
Methyl acrylate	B110449-BLK1	0	ug/L			
Nitrobenzene	B110449-BLK1	0	ug/L			
2-Nitropropane	B110449-BLK1	0	ug/L			

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**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### 1,4-Dioxane (EPA Method 8270C)

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110871</b>						
1,4-Dioxane	B110871-BLK1	ND	ug/L	1.0	0.27	
Naphthalene-d8 (Surrogate)	B110871-BLK1	81.0	%	70 - 130 (LCL - UCL)		

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**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### 1,4-Dioxane (EPA Method 8270C)

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: B110871</b>										
1,4-Dioxane	B110871-BS1	LCS	48.570	50.000	ug/L	97.1		70	130	
Naphthalene-d8 (Surrogate)	B110871-BS1	LCS	7.7200	8.0000	ug/L	96.5		70	130	

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**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### 1,4-Dioxane (EPA Method 8270C)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
<b>QC Batch ID: B110871</b>		Used client sample: N								
1,4-Dioxane	MS	2116941-04	ND	48.951	50.000	ug/L		97.9		70 - 130
	MSD	2116941-04	ND	48.755	50.000	ug/L	0.4	97.5	30	70 - 130
Naphthalene-d8 (Surrogate)	MS	2116941-04	ND	7.5166	8.0000	ug/L		94.0		70 - 130
	MSD	2116941-04	ND	7.6734	8.0000	ug/L	2.1	95.9		70 - 130

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**Reported:** 06/22/2021 9:12  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Water Analysis (General Chemistry)

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B109503</b>						
Bicarbonate	B109503-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B109503-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B109503-BLK1	ND	mg/L	4.1	4.1	
<b>QC Batch ID: B109504</b>						
Bicarbonate	B109504-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B109504-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B109504-BLK1	ND	mg/L	4.1	4.1	
<b>QC Batch ID: B110210</b>						
Chloride	B110210-BLK1	ND	mg/L	0.50	0.13	
Nitrate as N	B110210-BLK1	ND	mg/L	0.10	0.024	
Sulfate	B110210-BLK1	ND	mg/L	1.0	0.14	
<b>QC Batch ID: B110211</b>						
Chloride	B110211-BLK1	ND	mg/L	0.50	0.13	
Nitrate as N	B110211-BLK1	ND	mg/L	0.10	0.024	
Sulfate	B110211-BLK1	ND	mg/L	1.0	0.14	
<b>QC Batch ID: B110213</b>						
Chloride	B110213-BLK1	ND	mg/L	0.50	0.13	
Nitrate as N	B110213-BLK1	ND	mg/L	0.10	0.024	
Sulfate	B110213-BLK1	ND	mg/L	1.0	0.14	
<b>QC Batch ID: B110393</b>						
Total Dissolved Solids @ 180 C	B110393-BLK1	ND	mg/L	6.7	3.3	
<b>QC Batch ID: B110394</b>						
Total Dissolved Solids @ 180 C	B110394-BLK1	ND	mg/L	6.7	3.3	
<b>QC Batch ID: B110513</b>						
Nitrite as N	B110513-BLK1	0.010212	mg/L	0.050	0.010	J
<b>QC Batch ID: B110514</b>						
Nitrite as N	B110514-BLK1	ND	mg/L	0.050	0.010	
<b>QC Batch ID: B110515</b>						
Nitrite as N	B110515-BLK1	ND	mg/L	0.050	0.010	
<b>QC Batch ID: B110987</b>						

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**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110987</b>						
Perchlorate	B110987-BLK1	ND	ug/L	4.0	0.81	
<b>QC Batch ID: B110988</b>						
Perchlorate	B110988-BLK1	ND	ug/L	4.0	0.81	
<b>QC Batch ID: B110989</b>						
Perchlorate	B110989-BLK1	ND	ug/L	4.0	0.81	
<b>QC Batch ID: B111383</b>						
<b>Total Recoverable Calcium</b>	<b>B111383-BLK1</b>	<b>0.025973</b>	<b>mg/L</b>	<b>0.10</b>	<b>0.014</b>	<b>J</b>
<b>Total Recoverable Magnesium</b>	<b>B111383-BLK1</b>	<b>0.065863</b>	<b>mg/L</b>	<b>0.050</b>	<b>0.019</b>	<b>M01</b>
Total Recoverable Sodium	B111383-BLK1	ND	mg/L	0.50	0.051	
Total Recoverable Potassium	B111383-BLK1	ND	mg/L	1.0	0.10	
<b>QC Batch ID: B111384</b>						
Total Recoverable Calcium	B111384-BLK1	ND	mg/L	0.10	0.014	
<b>Total Recoverable Magnesium</b>	<b>B111384-BLK1</b>	<b>0.030776</b>	<b>mg/L</b>	<b>0.050</b>	<b>0.019</b>	<b>J</b>
Total Recoverable Sodium	B111384-BLK1	ND	mg/L	0.50	0.051	
Total Recoverable Potassium	B111384-BLK1	ND	mg/L	1.0	0.10	
<b>QC Batch ID: B111385</b>						
<b>Total Recoverable Calcium</b>	<b>B111385-BLK1</b>	<b>0.015979</b>	<b>mg/L</b>	<b>0.10</b>	<b>0.014</b>	<b>J</b>
<b>Total Recoverable Magnesium</b>	<b>B111385-BLK1</b>	<b>0.048364</b>	<b>mg/L</b>	<b>0.050</b>	<b>0.019</b>	<b>J</b>
Total Recoverable Sodium	B111385-BLK1	ND	mg/L	0.50	0.051	
Total Recoverable Potassium	B111385-BLK1	ND	mg/L	1.0	0.10	

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Reported: 06/22/2021 9:12  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Water Analysis (General Chemistry)

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
<b>QC Batch ID: B109503</b>										
Total Alkalinity as CaCO3	B109503-BS3	LCS	101.94	100.00	mg/L	102		90 - 110		
pH	B109503-BS2	LCS	7.0500	7.0000	pH Units	101		95 - 105		
<b>QC Batch ID: B109504</b>										
Total Alkalinity as CaCO3	B109504-BS3	LCS	101.94	100.00	mg/L	102		90 - 110		
pH	B109504-BS2	LCS	7.0500	7.0000	pH Units	101		95 - 105		
<b>QC Batch ID: B110210</b>										
Chloride	B110210-BS1	LCS	49.672	50.000	mg/L	99.3		90 - 110		
Nitrate as N	B110210-BS1	LCS	5.0330	5.0000	mg/L	101		90 - 110		
Sulfate	B110210-BS1	LCS	98.236	100.00	mg/L	98.2		90 - 110		
<b>QC Batch ID: B110211</b>										
Chloride	B110211-BS1	LCS	49.734	50.000	mg/L	99.5		90 - 110		
Nitrate as N	B110211-BS1	LCS	5.1180	5.0000	mg/L	102		90 - 110		
Sulfate	B110211-BS1	LCS	97.373	100.00	mg/L	97.4		90 - 110		
<b>QC Batch ID: B110213</b>										
Chloride	B110213-BS1	LCS	50.640	50.000	mg/L	101		90 - 110		
Nitrate as N	B110213-BS1	LCS	5.0850	5.0000	mg/L	102		90 - 110		
Sulfate	B110213-BS1	LCS	98.367	100.00	mg/L	98.4		90 - 110		
<b>QC Batch ID: B110393</b>										
Total Dissolved Solids @ 180 C	B110393-BS1	LCS	580.00	586.00	mg/L	99.0		90 - 110		
	B110393-BSD1	LCSD	590.00	586.00	mg/L	101	1.7	90 - 110	200	
<b>QC Batch ID: B110394</b>										
Total Dissolved Solids @ 180 C	B110394-BS1	LCS	580.00	586.00	mg/L	99.0		90 - 110		
	B110394-BSD1	LCSD	595.00	586.00	mg/L	102	2.6	90 - 110	200	
<b>QC Batch ID: B110513</b>										
Nitrite as N	B110513-BS1	LCS	0.48695	0.50000	mg/L	97.4		90 - 110		
<b>QC Batch ID: B110514</b>										
Nitrite as N	B110514-BS1	LCS	0.48588	0.50000	mg/L	97.2		90 - 110		
<b>QC Batch ID: B110515</b>										
Nitrite as N	B110515-BS1	LCS	0.48570	0.50000	mg/L	97.1		90 - 110		
<b>QC Batch ID: B110987</b>										
Perchlorate	B110987-BS1	LCS	10.372	10.000	ug/L	104		85 - 115		
<b>QC Batch ID: B110988</b>										

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

## Water Analysis (General Chemistry)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
<b>QC Batch ID: B110988</b>										
Perchlorate	B110988-BS1	LCS	9.7895	10.000	ug/L	97.9		85	115	
<b>QC Batch ID: B110989</b>										
Perchlorate	B110989-BS1	LCS	9.5687	10.000	ug/L	95.7		85	115	
<b>QC Batch ID: B111383</b>										
Total Recoverable Calcium	B111383-BS1	LCS	9.3419	10.000	mg/L	93.4		85	115	
Total Recoverable Magnesium	B111383-BS1	LCS	8.9557	10.000	mg/L	89.6		85	115	
Total Recoverable Sodium	B111383-BS1	LCS	9.4192	10.000	mg/L	94.2		85	115	
Total Recoverable Potassium	B111383-BS1	LCS	9.0502	10.000	mg/L	90.5		85	115	
<b>QC Batch ID: B111384</b>										
Total Recoverable Calcium	B111384-BS1	LCS	9.3385	10.000	mg/L	93.4		85	115	
Total Recoverable Magnesium	B111384-BS1	LCS	9.1288	10.000	mg/L	91.3		85	115	
Total Recoverable Sodium	B111384-BS1	LCS	9.4715	10.000	mg/L	94.7		85	115	
Total Recoverable Potassium	B111384-BS1	LCS	9.1611	10.000	mg/L	91.6		85	115	
<b>QC Batch ID: B111385</b>										
Total Recoverable Calcium	B111385-BS1	LCS	9.3579	10.000	mg/L	93.6		85	115	
Total Recoverable Magnesium	B111385-BS1	LCS	8.9767	10.000	mg/L	89.8		85	115	
Total Recoverable Sodium	B111385-BS1	LCS	9.3486	10.000	mg/L	93.5		85	115	
Total Recoverable Potassium	B111385-BS1	LCS	8.9988	10.000	mg/L	90.0		85	115	

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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 06/22/2021 9:12
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quails. Includes QC Batch IDs B109503, B109504, B110210, B110211, and B110213.

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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 06/22/2021 9:12
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Control Limits Percent Recovery, Lab Quails. Includes multiple QC Batch sections (B110213, B110393, B110394, B110513, B110514, B110515, B110987, B110988, B110989, B111383) with detailed data for various constituents like Sulfate, Total Dissolved Solids, Nitrite as N, Nitrate as N, and Total Recoverable Calcium.

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3761 Attucks Drive
Powell, OH 43065

Reported: 06/22/2021 9:12
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes three QC Batch sections (B111383, B111384, B111385) with detailed data for Magnesium, Sodium, and Potassium.

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110700</b>						
Hexavalent Chromium	B110700-BLK1	ND	mg/L	0.00020	0.000020	
<b>QC Batch ID: B110701</b>						
Hexavalent Chromium	B110701-BLK1	0.000023000	mg/L	0.00020	0.000020	J
<b>QC Batch ID: B110702</b>						
Hexavalent Chromium	B110702-BLK1	ND	mg/L	0.00020	0.000020	
<b>QC Batch ID: B111276</b>						
Total Recoverable Arsenic	B111276-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B111276-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B111276-BLK1	ND	ug/L	1.0	0.10	
<b>QC Batch ID: B111277</b>						
Total Recoverable Arsenic	B111277-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B111277-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B111277-BLK1	ND	ug/L	1.0	0.10	
<b>QC Batch ID: B111381</b>						
Total Recoverable Arsenic	B111381-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B111381-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B111381-BLK1	ND	ug/L	1.0	0.10	
<b>QC Batch ID: B111383</b>						
Total Recoverable Iron	B111383-BLK1	ND	ug/L	50	30	
<b>QC Batch ID: B111384</b>						
Total Recoverable Iron	B111384-BLK1	ND	ug/L	50	30	
<b>QC Batch ID: B111385</b>						
Total Recoverable Iron	B111385-BLK1	ND	ug/L	50	30	

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
<b>QC Batch ID: B110700</b>										
Hexavalent Chromium	B110700-BS1	LCS	0.020244	0.020000	mg/L	101		90 - 110		
<b>QC Batch ID: B110701</b>										
Hexavalent Chromium	B110701-BS1	LCS	0.019937	0.020000	mg/L	99.7		90 - 110		
<b>QC Batch ID: B110702</b>										
Hexavalent Chromium	B110702-BS1	LCS	0.019823	0.020000	mg/L	99.1		90 - 110		
<b>QC Batch ID: B111276</b>										
Total Recoverable Arsenic	B111276-BS1	LCS	105.25	100.00	ug/L	105		85 - 115		
Total Recoverable Chromium	B111276-BS1	LCS	42.207	40.000	ug/L	106		85 - 115		
Total Recoverable Lead	B111276-BS1	LCS	104.80	100.00	ug/L	105		85 - 115		
<b>QC Batch ID: B111277</b>										
Total Recoverable Arsenic	B111277-BS1	LCS	104.41	100.00	ug/L	104		85 - 115		
Total Recoverable Chromium	B111277-BS1	LCS	40.482	40.000	ug/L	101		85 - 115		
Total Recoverable Lead	B111277-BS1	LCS	106.38	100.00	ug/L	106		85 - 115		
<b>QC Batch ID: B111381</b>										
Total Recoverable Arsenic	B111381-BS1	LCS	101.91	100.00	ug/L	102		85 - 115		
Total Recoverable Chromium	B111381-BS1	LCS	40.118	40.000	ug/L	100		85 - 115		
Total Recoverable Lead	B111381-BS1	LCS	103.94	100.00	ug/L	104		85 - 115		
<b>QC Batch ID: B111383</b>										
Total Recoverable Iron	B111383-BS1	LCS	889.98	1000.0	ug/L	89.0		85 - 115		
<b>QC Batch ID: B111384</b>										
Total Recoverable Iron	B111384-BS1	LCS	889.67	1000.0	ug/L	89.0		85 - 115		
<b>QC Batch ID: B111385</b>										
Total Recoverable Iron	B111385-BS1	LCS	889.42	1000.0	ug/L	88.9		85 - 115		

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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 06/22/2021 9:12
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Control Limits Percent Recovery, Lab Quals. Includes QC Batch IDs B110700, B110701, B110702, B111276, B111277, and B111381.

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3761 Attucks Drive  
Powell, OH 43065

Reported: 06/22/2021 9:12  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Metals Analysis

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
<b>QC Batch ID: B111381</b>		Used client sample: Y - Description: MW-9, 05/26/2021 13:55								
Total Recoverable Chromium	DUP	2116877-13	3.0030	3.0450		ug/L	1.4		20	
	MS	2116877-13	3.0030	41.191	40.000	ug/L		95.5		70 - 130
	MSD	2116877-13	3.0030	40.439	40.000	ug/L	1.8	93.6	20	70 - 130
Total Recoverable Lead	DUP	2116877-13	ND	ND		ug/L			20	
	MS	2116877-13	ND	100.78	100.00	ug/L		101		70 - 130
	MSD	2116877-13	ND	99.180	100.00	ug/L	1.6	99.2	20	70 - 130
<b>QC Batch ID: B111383</b>		Used client sample: Y - Description: MW-15, 05/26/2021 10:30								
Total Recoverable Iron	DUP	2116877-11	ND	ND		ug/L			20	
	MS	2116877-11	ND	908.01	1000.0	ug/L		90.8		75 - 125
	MSD	2116877-11	ND	887.73	1000.0	ug/L	2.3	88.8	20	75 - 125
<b>QC Batch ID: B111384</b>		Used client sample: Y - Description: MW-1, 05/26/2021 12:25								
Total Recoverable Iron	DUP	2116877-12	ND	ND		ug/L			20	
	MS	2116877-12	ND	907.67	1000.0	ug/L		90.8		75 - 125
	MSD	2116877-12	ND	957.16	1000.0	ug/L	5.3	95.7	20	75 - 125
<b>QC Batch ID: B111385</b>		Used client sample: Y - Description: MW-9, 05/26/2021 13:55								
Total Recoverable Iron	DUP	2116877-13	125.15	120.19		ug/L	4.0		20	
	MS	2116877-13	125.15	1009.9	1000.0	ug/L		88.5		75 - 125
	MSD	2116877-13	125.15	1008.0	1000.0	ug/L	0.2	88.3	20	75 - 125

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# Certificate of Analysis

FINAL REPORT

Work Orders: 1F01018

Project: 2116877

Attn: Natalie Serda

Client: BC Laboratories  
4100 Atlas Court  
Bakersfield, CA 93308

Report Date: 6/16/2021

Received Date: 5/29/2021

Turnaround Time: Normal

Phones: (661) 327-4911

Fax: (661) 327-1918

P.O. #:

Billing Code:

Dear Natalie Serda,

Enclosed are the results of analyses for samples received 5/29/21 with the Chain-of-Custody document. The samples were received in good condition, at 4.1 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

## Sample Results

Sample: 2116877-02 Sampled: 05/26/21 9:40 by Client  
1F01018-01 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
<b>Method:</b> EPA 1625M		<b>Instr:</b> GCMS09				
<b>Batch ID:</b> W1F0015		<b>Preparation:</b> EPA 3535/SPE		<b>Prepared:</b> 06/01/21 09:54		<b>Analyst:</b> mid
N-Nitrosodimethylamine	ND	2.0	ng/l	1	06/03/21	

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Certificate of Analysis  
FINAL REPORT

Quality Control Results

Nitrosamines by isotopic dilution GC/MS CI Mode

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	RPD	Limit	Qualifier
Batch: W1F0015 - EPA 3535/SPE									
Blank (W1F0015-BLK1)				Prepared: 06/01/21 Analyzed: 06/02/21					
N-Nitrosodimethylamine	ND	2.0	ng/l						
LCS (W1F0015-BS1)				Prepared: 06/01/21 Analyzed: 06/02/21					
N-Nitrosodimethylamine	2.02	2.0	ng/l	2.00		101		50-150	
LCS Dup (W1F0015-BSD1)				Prepared: 06/01/21 Analyzed: 06/02/21					
N-Nitrosodimethylamine	2.10	2.0	ng/l	2.00		105	4	50-150	50

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WECK LABORATORIES, INC.

# Certificate of Analysis

FINAL REPORT

## Notes and Definitions

Item	Definition
%REC	Percent Recovery
DI	Dilution
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

**Reviewed by:**

Rahul R. Nair  
Project Manager



DoD-ELAP ANAB #L2457 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • Guam-EPA #17-008R • HW-DOH # • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047 • NJ-DEP #CA015 • NV-DEP #NAC 445A • SCAQMD #93LA1006

*This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.*

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/22/2021 9:12  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

**Notes And Definitions**

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A02 The difference between duplicate readings is less than the quantitation limit.
- A03 The sample concentration was more than 4 times the spike level.
- A07 Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
- A40 Initial calibration linearity criteria not met.
- M01 Analyte detected in the Method Blank at or above the PQL.
- S05 The sample holding time was exceeded.
- S11 The analyte in the Method Blank is greater than the laboratory PQL but the sample result is greater than 10 times the Method Blank.
- V01 The Initial Calibration Verification (ICV) recovery is not within established control limits.
- V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.

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Date of Report: 06/21/2021

David Conner

Tidewater Inc. - Powell

3761 Attucks Drive

Powell, OH 43065

Client Project: 2Q21

BCL Project: JPL- GW Monitoring Wells-CLP

BCL Work Order: 2117015

Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 5/27/2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda

Client Service Rep

Stuart Buttram

Technical Director

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Chain of Custody Form

Report To: Tidelwater, Inc. Client: David Conner  
 Street Address: 3761 Allucks Drive City: Powell State: OH Zip: 43065  
 Phone: 626 1288 - 5715 Fax: 614 792 - 2837  
 Email Address: david.conner@liden2o.net

Project Description: JPL-GW Monitoring Project Code: 2021  
 Sampler(s): Blaine Tech L. Henderson

Sample #	Sample Description	Date	Time	Matrix*
-1	TB-8-052721	08/21	0800	U
-2	MU-21-3	09/20	0850	
-3	MU-21-2	09/20	0920	
-4	POP-6-2021	09/25	0935	
-5	MU-12-5	11/10	1110	
-6	MU-12-4	11/10	1140	
-7	MU-12-3	12/00	1300	
-8	MU-12-2	12/00	1330	
-9	EB-8-052721	12/00	1345	

Analysis Requested: VOCs EPA 524.2, TRM: Cr, Pb, As, Ca, Mg, K, Na, Fe, Hexavalent Cr-218.6 (mg/L), Cl, NO3, NO2, SO4, Perch., CO3, HCO3, Alk., TDS, pH, Orthophosphate 365.1, 1,4 Dioxane 62705M, NDMA 1625M

Notes: SHORT TURNAROUND TIME (9:30 AM - 5:00 PM) YES NO, DO, Cl, SO4, MEAS, COT, MS/MSD, CHK BY: [Signature], DISTRIBUTION: [Signature], SUB OUT: [ ]

Matrix Types: S = Soil, SL = Sludge, OW = Drinking Water, WW = Wastewater, GW = Groundwater, L = Liquid, M = Miscellaneous, O = Other  
 Turnaround # of working days\*: 24 Hr Rush, 48 Hr Rush, 3-5 Day Rush, Normal (10 - Days)  
 Lab TAT Approval: [Signature]

Global ID: [Blank]  
 1. Received By: [Signature] Date: 5/27/21 Time: 1415  
 2. Received By: [Signature] Date: 5/27/21 Time: 1500  
 3. Received By: [Signature] Date: 5/27/21 Time: 2120

BC Laboratories, Inc. 4100 Atlas Court - Bakersfield CA 93308 (661) 327 - 4911 Fax: (661) 327 - 1918 www.bclabs.com

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 1

Submission #: 21-17015

SHIPPING INFORMATION		SHIPPING CONTAINER	FREE LIQUID
Fed Ex <input type="checkbox"/>	UPS <input type="checkbox"/>	GSO / GLS <input type="checkbox"/>	Hand Delivery <input type="checkbox"/>
BC Lab Field Service <input checked="" type="checkbox"/>	Other <input type="checkbox"/> (Specify) _____		Ice Chest <input checked="" type="checkbox"/>
		None <input type="checkbox"/>	Box <input type="checkbox"/>
		Other <input type="checkbox"/> (Specify) _____	
YES <input type="checkbox"/> NO <input type="checkbox"/>			
W / S			

Refrigerant: Ice  Blue Ice  None  Other  Comments:

Custody Seals Ice Chest  Containers  None  Comments:

Intact? Yes  No  Intact? Yes  No

All samples received? Yes  No  All samples containers intact? Yes  No  Description(s) match COC? Yes  No

COC Received  YES  NO

Emissivity: 0.97 Container: PE Thermometer ID: 209 Date/Time: 5/27/21 2120

Temperature: (A) 0.8 °C / (C) 0.8 °C Analyst Init: PLG

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES		0	10	0	0	GH	0	0	0	
4oz / 8oz / 16oz PE UNPRES										
2oz Cr <sup>4</sup>		E	E	E	E	IJ	E	E	E	
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz		F	F	F	F	JKL	F	F	F	
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PeA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A									
40ml VOA VIAL		ABC	AC	ABC	ABC	ABCDEF	ABC	ABC	ABC	
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/808/1A										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: \_\_\_\_\_

Sample Numbering Completed By: 402 Date/Time: 5-27-21 23:43 Rev 22 04/13/21

A = Actual / C = Corrected



Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/21/2021 18:28  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

<b>2117015-01</b>	<b>COC Number:</b> --- <b>Project Number:</b> GW Monitoring <b>Sampling Location:</b> --- <b>Sampling Point:</b> TB-8-052721 <b>Sampled By:</b> Blaine Tech - L. Henderson of BTST	<b>Receive Date:</b> 05/27/2021 21:20 <b>Sampling Date:</b> 05/27/2021 08:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-8-052721 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

<b>2117015-02</b>	<b>COC Number:</b> --- <b>Project Number:</b> GW Monitoring <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-21-3 <b>Sampled By:</b> Blaine Tech - L. Henderson of BTST	<b>Receive Date:</b> 05/27/2021 21:20 <b>Sampling Date:</b> 05/27/2021 08:50 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-21-3 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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<b>2117015-03</b>	<b>COC Number:</b> --- <b>Project Number:</b> GW Monitoring <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-21-2 <b>Sampled By:</b> Blaine Tech - L. Henderson of BTST	<b>Receive Date:</b> 05/27/2021 21:20 <b>Sampling Date:</b> 05/27/2021 09:20 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-21-2 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/21/2021 18:28  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

<b>2117015-04</b>	<b>COC Number:</b> --- <b>Project Number:</b> GW Monitoring <b>Sampling Location:</b> --- <b>Sampling Point:</b> DUP-6-2Q21 <b>Sampled By:</b> Blaine Tech - L. Henderson of BTST	<b>Receive Date:</b> 05/27/2021 21:20 <b>Sampling Date:</b> 05/27/2021 09:35 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): DUP-6-2Q21 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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<b>2117015-05</b>	<b>COC Number:</b> --- <b>Project Number:</b> GW Monitoring <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-12-5 <b>Sampled By:</b> Blaine Tech - L. Henderson of BTST	<b>Receive Date:</b> 05/27/2021 21:20 <b>Sampling Date:</b> 05/27/2021 11:10 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-12-5 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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<b>2117015-06</b>	<b>COC Number:</b> --- <b>Project Number:</b> GW Monitoring <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-12-4 <b>Sampled By:</b> Blaine Tech - L. Henderson of BTST	<b>Receive Date:</b> 05/27/2021 21:20 <b>Sampling Date:</b> 05/27/2021 11:40 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-12-4 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/21/2021 18:28  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>2117015-07</b>	<b>COC Number:</b> --- <b>Project Number:</b> GW Monitoring <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-12-3 <b>Sampled By:</b> Blaine Tech - L. Henderson of BTST	<b>Receive Date:</b> 05/27/2021 21:20 <b>Sampling Date:</b> 05/27/2021 13:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-12-3 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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<b>2117015-08</b>	<b>COC Number:</b> --- <b>Project Number:</b> GW Monitoring <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-12-2 <b>Sampled By:</b> Blaine Tech - L. Henderson of BTST	<b>Receive Date:</b> 05/27/2021 21:20 <b>Sampling Date:</b> 05/27/2021 13:30 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-12-2 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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<b>2117015-09</b>	<b>COC Number:</b> --- <b>Project Number:</b> GW Monitoring <b>Sampling Location:</b> --- <b>Sampling Point:</b> EB-8-052721 <b>Sampled By:</b> Blaine Tech - L. Henderson of BTST	<b>Receive Date:</b> 05/27/2021 21:20 <b>Sampling Date:</b> 05/27/2021 13:45 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-8-052721 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/21/2021 18:28  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117015-01	<b>Client Sample Name:</b> GW Monitoring, TB-8-052721, 5/27/2021 8:00:00AM, Blaine Tech - L. Henderson
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/21/2021 18:28  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117015-01	<b>Client Sample Name:</b> GW Monitoring, TB-8-052721, 5/27/2021 8:00:00AM, Blaine Tech - L. Henderson
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/21/2021 18:28  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117015-01	<b>Client Sample Name:</b> GW Monitoring, TB-8-052721, 5/27/2021 8:00:00AM, Blaine Tech - L. Henderson
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/01/21 12:00	06/02/21 00:55	MGC	MS-V5	1	B110522	EPA 524.2

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/21/2021 18:28  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2117015-01	<b>Client Sample Name:</b> GW Monitoring, TB-8-052721, 5/27/2021 8:00:00AM, Blaine Tech - L. Henderson
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/01/21 12:00	06/02/21	00:55	MGC	MS-V5	1	B110522	EPA 524.2

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/21/2021 18:28  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117015-02	<b>Client Sample Name:</b> GW Monitoring, MW-21-3, 5/27/2021 8:50:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Chloroform</b>	<b>0.36</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/21/2021 18:28  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117015-02	<b>Client Sample Name:</b> GW Monitoring, MW-21-3, 5/27/2021 8:50:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Tetrachloroethene</b>	<b>0.62</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.23</b>	<b>EPA-524.2</b>	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
<b>Trichloroethene</b>	<b>0.73</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.19</b>	<b>EPA-524.2</b>	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/21/2021 18:28  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117015-02	<b>Client Sample Name:</b> GW Monitoring, MW-21-3, 5/27/2021 8:50:00AM, Blaine Tech - L. Henderson
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/01/21 12:00	06/02/21 01:19	MGC	MS-V5	1	B110522	EPA 524.2

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/21/2021 18:28  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2117015-02	<b>Client Sample Name:</b> GW Monitoring, MW-21-3, 5/27/2021 8:50:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/01/21 12:00	06/02/21	01:19	MGC	MS-V5	1	B110522	EPA 524.2

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/21/2021 18:28  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

BCL Sample ID: 2117015-02		Client Sample Name: GW Monitoring, MW-21-3, 5/27/2021 8:50:00AM, Blaine Tech - L. Henderson							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	150	mg/L	0.10	0.014	EPA-200.7	0.016		1	
Total Recoverable Magnesium	45	mg/L	0.050	0.019	EPA-200.7	0.048	S11	1	
Total Recoverable Sodium	61	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	3.6	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	350	mg/L	10	10	SM-2320B	ND	A07	2	
Carbonate	ND	mg/L	5.0	5.0	SM-2320B	ND	A07	2	
Total Alkalinity as CaCO3	290	mg/L	8.2	8.2	SM-2320B	ND	A07	2	
Chloride	130	mg/L	0.50	0.13	EPA-300.0	ND		3	
Nitrate as N	10	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	160	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	7.42	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	710	mg/L	50	25	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	2.6	ug/L	4.0	0.81	EPA-314.0	ND	J	7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/10/21 21:45	06/11/21 13:29		AK1	PE-OP4	1	B111385	EPA 200.2
2	SM-2320B	06/02/21 07:00	06/02/21 09:43		RML	MET-1	2	B109509	No Prep
3	EPA-300.0	05/27/21 21:00	05/28/21 07:13		SAV	IC2	1	B110321	No Prep
4	EPA-150.1	06/02/21 07:00	06/02/21 09:43		RML	MET-1	1	B109509	No Prep
5	EPA-160.1	06/01/21 12:00	06/01/21 12:00		CAD	MANUAL	5	B110496	No Prep
6	EPA-353.2	05/28/21 09:13	05/28/21 09:13		MC1	KONE-1	1	B110847	No Prep
7	EPA-314.0	06/08/21 02:00	06/08/21 06:13		SAV	IC6	1	B111065	No Prep

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Powell, OH 43065

**Reported:** 06/21/2021 18:28  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2117015-02	<b>Client Sample Name:</b> GW Monitoring, MW-21-3, 5/27/2021 8:50:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00052	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Arsenic	0.93	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	1.1	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	72	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/01/21 18:00	06/02/21 10:42		SAV	IC-4	1	B110568	No Prep
2	EPA-200.8	06/10/21 18:10	06/11/21 13:30		KHS	PE-EL2	1	B111381	EPA 200.2
3	EPA-200.7	06/10/21 21:45	06/11/21 13:29		AK1	PE-OP4	1	B111385	EPA 200.2

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Powell, OH 43065

Reported: 06/21/2021 18:28  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117015-03	<b>Client Sample Name:</b> GW Monitoring, MW-21-2, 5/27/2021 9:20:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Chloroform</b>	<b>0.19</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 06/21/2021 18:28
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quads, Run #. Lists various chemical constituents and their analysis results.

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/21/2021 18:28  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117015-03	<b>Client Sample Name:</b> GW Monitoring, MW-21-2, 5/27/2021 9:20:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/01/21 12:00	06/02/21 01:43	MGC	MS-V5	1	B110522	EPA 524.2

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/21/2021 18:28  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2117015-03	<b>Client Sample Name:</b> GW Monitoring, MW-21-2, 5/27/2021 9:20:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/01/21 12:00	06/02/21	01:43	MGC	MS-V5	1	B110522	EPA 524.2

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Powell, OH 43065

Reported: 06/21/2021 18:28  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Water Analysis (General Chemistry)

BCL Sample ID: 2117015-03		Client Sample Name: GW Monitoring, MW-21-2, 5/27/2021 9:20:00AM, Blaine Tech - L. Henderson							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	160	mg/L	0.10	0.014	EPA-200.7	0.016		1	
Total Recoverable Magnesium	50	mg/L	0.050	0.019	EPA-200.7	0.048	S11	1	
Total Recoverable Sodium	60	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	2.9	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	380	mg/L	10	10	SM-2320B	ND	A07	2	
Carbonate	ND	mg/L	5.0	5.0	SM-2320B	ND	A07	2	
Total Alkalinity as CaCO3	310	mg/L	8.2	8.2	SM-2320B	ND	A07	2	
Chloride	170	mg/L	0.50	0.13	EPA-300.0	ND		3	
Nitrate as N	4.4	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	170	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	7.39	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	820	mg/L	50	25	EPA-160.1	ND	A07	5	
Nitrite as N	0.42	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	1.8	ug/L	4.0	0.81	EPA-314.0	ND	J	7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/10/21 21:45	06/11/21 13:31		AK1	PE-OP4	1	B111385	EPA 200.2
2	SM-2320B	06/02/21 07:00	06/02/21 09:48		RML	MET-1	2	B109509	No Prep
3	EPA-300.0	05/27/21 21:00	05/28/21 07:33		SAV	IC2	1	B110321	No Prep
4	EPA-150.1	06/02/21 07:00	06/02/21 09:48		RML	MET-1	1	B109509	No Prep
5	EPA-160.1	06/01/21 12:00	06/01/21 12:00		CAD	MANUAL	5	B110496	No Prep
6	EPA-353.2	05/28/21 09:13	05/28/21 09:13		MC1	KONE-1	1	B110847	No Prep
7	EPA-314.0	06/08/21 02:00	06/08/21 06:28		SAV	IC6	1	B111065	No Prep

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Powell, OH 43065

**Reported:** 06/21/2021 18:28  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2117015-03	<b>Client Sample Name:</b> GW Monitoring, MW-21-2, 5/27/2021 9:20:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00010	mg/L	0.00020	0.000020	EPA-218.6	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/01/21 18:00	06/02/21 10:52		SAV	IC-4	1	B110568	No Prep
2	EPA-200.8	06/10/21 18:10	06/11/21 13:31		KHS	PE-EL2	1	B111381	EPA 200.2
3	EPA-200.7	06/10/21 21:45	06/11/21 13:31		AK1	PE-OP4	1	B111385	EPA 200.2

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Powell, OH 43065

**Reported:** 06/21/2021 18:28  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2117015-04	Client Sample Name:	GW Monitoring, DUP-6-2Q21, 5/27/2021 9:35:00AM, Blaine Tech - L. Henderson						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1	
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1	
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1	
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
<b>Chloroform</b>	<b>0.26</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1	
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1	
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1	
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1	
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/21/2021 18:28  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117015-04	<b>Client Sample Name:</b> GW Monitoring, DUP-6-2Q21, 5/27/2021 9:35:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Tetrachloroethene</b>	<b>0.51</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.23</b>	<b>EPA-524.2</b>	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/21/2021 18:28  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117015-04	<b>Client Sample Name:</b> GW Monitoring, DUP-6-2Q21, 5/27/2021 9:35:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	104	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/01/21 12:00	06/02/21 02:07	MGC	MS-V5	1	B110522	EPA 524.2

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Powell, OH 43065

**Reported:** 06/21/2021 18:28  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2117015-04	<b>Client Sample Name:</b> GW Monitoring, DUP-6-2Q21, 5/27/2021 9:35:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/01/21 12:00	06/02/21 02:07	MGC	MS-V5	1	B110522	EPA 524.2

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Powell, OH 43065

Reported: 06/21/2021 18:28  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Water Analysis (General Chemistry)

BCL Sample ID: 2117015-04		Client Sample Name: GW Monitoring, DUP-6-2Q21, 5/27/2021 9:35:00AM, Blaine Tech - L. Henderson							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	170	mg/L	0.10	0.014	EPA-200.7	0.016		1	
Total Recoverable Magnesium	53	mg/L	0.050	0.019	EPA-200.7	0.048	S11	1	
Total Recoverable Sodium	63	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	3.1	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	370	mg/L	10	10	SM-2320B	ND	A07	2	
Carbonate	ND	mg/L	5.0	5.0	SM-2320B	ND	A07	2	
Total Alkalinity as CaCO3	310	mg/L	8.2	8.2	SM-2320B	ND	A07	2	
Chloride	170	mg/L	0.50	0.13	EPA-300.0	ND		3	
Nitrate as N	4.3	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	170	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	7.66	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	750	mg/L	50	25	EPA-160.1	ND	A07	5	
Nitrite as N	0.43	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	2.0	ug/L	4.0	0.81	EPA-314.0	ND	J	7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/10/21 21:45	06/11/21 13:34		AK1	PE-OP4	1	B111385	EPA 200.2
2	SM-2320B	06/02/21 07:00	06/02/21 10:22		RML	MET-1	2	B109510	No Prep
3	EPA-300.0	05/27/21 21:00	05/28/21 07:54		SAV	IC2	1	B110321	No Prep
4	EPA-150.1	06/02/21 07:00	06/02/21 10:22		RML	MET-1	1	B109510	No Prep
5	EPA-160.1	06/01/21 12:00	06/01/21 12:00		CAD	MANUAL	5	B110496	No Prep
6	EPA-353.2	05/28/21 09:13	05/28/21 09:17		MC1	KONE-1	1	B110847	No Prep
7	EPA-314.0	06/08/21 02:00	06/08/21 07:29		SAV	IC6	1	B111065	No Prep

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/21/2021 18:28  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2117015-04	<b>Client Sample Name:</b> GW Monitoring, DUP-6-2Q21, 5/27/2021 9:35:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000038	mg/L	0.00020	0.000020	EPA-218.6	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/01/21 18:00	06/02/21 11:02		SAV	IC-4	1	B110568	No Prep
2	EPA-200.8	06/10/21 18:10	06/11/21 13:33		KHS	PE-EL2	1	B111381	EPA 200.2
3	EPA-200.7	06/10/21 21:45	06/11/21 13:34		AK1	PE-OP4	1	B111385	EPA 200.2

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Reported: 06/21/2021 18:28  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117015-05	<b>Client Sample Name:</b> GW Monitoring, MW-12-5, 5/27/2021 11:10:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Chloroform</b>	<b>0.20</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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3761 Attucks Drive  
Powell, OH 43065

Reported: 06/21/2021 18:28  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117015-05	<b>Client Sample Name:</b> GW Monitoring, MW-12-5, 5/27/2021 11:10:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/21/2021 18:28  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117015-05	<b>Client Sample Name:</b> GW Monitoring, MW-12-5, 5/27/2021 11:10:00AM, Blaine Tech - L. Henderson
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/01/21 12:00	06/02/21 02:31	MGC	MS-V5	1	B110522	EPA 524.2

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Powell, OH 43065

**Reported:** 06/21/2021 18:28  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2117015-05	<b>Client Sample Name:</b> GW Monitoring, MW-12-5, 5/27/2021 11:10:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/01/21 12:00	06/02/21	02:31	MGC	MS-V5	1	B110522	EPA 524.2

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Powell, OH 43065

Reported: 06/21/2021 18:28
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows 1-7 detailing analysis parameters for each run.

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**Reported:** 06/21/2021 18:28  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2117015-05	<b>Client Sample Name:</b> GW Monitoring, MW-12-5, 5/27/2021 11:10:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0012	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Arsenic	2.0	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	1.6	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	69	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	0.14	ug/L	1.0	0.10	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/01/21 18:00	06/02/21 11:40		SAV	IC-4	1	B110568	No Prep
2	EPA-200.8	06/10/21 18:10	06/11/21 13:34		KHS	PE-EL2	1	B111381	EPA 200.2
3	EPA-200.7	06/10/21 21:45	06/11/21 13:36		AK1	PE-OP4	1	B111385	EPA 200.2

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Powell, OH 43065

Reported: 06/21/2021 18:28  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117015-06	<b>Client Sample Name:</b> GW Monitoring, MW-12-4, 5/27/2021 11:40:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
<b>Carbon tetrachloride</b>	<b>1.5</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.17</b>	<b>EPA-524.2</b>	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Chloroform</b>	<b>0.72</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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3761 Attucks Drive  
Powell, OH 43065

Reported: 06/21/2021 18:28  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117015-06	<b>Client Sample Name:</b> GW Monitoring, MW-12-4, 5/27/2021 11:40:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
<b>Trichloroethene</b>	<b>0.27</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.19</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/21/2021 18:28  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117015-06	<b>Client Sample Name:</b> GW Monitoring, MW-12-4, 5/27/2021 11:40:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/01/21 12:00	06/02/21 00:31	MGC	MS-V5	1	B110522	EPA 524.2

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/21/2021 18:28  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2117015-06	<b>Client Sample Name:</b> GW Monitoring, MW-12-4, 5/27/2021 11:40:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/01/21 12:00	06/02/21	00:31	MGC	MS-V5	1	B110522	EPA 524.2

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Powell, OH 43065

Reported: 06/21/2021 18:28  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Water Analysis (General Chemistry)

BCL Sample ID: 2117015-06		Client Sample Name: GW Monitoring, MW-12-4, 5/27/2021 11:40:00AM, Blaine Tech - L. Henderson							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	54	mg/L	0.10	0.014	EPA-200.7	ND		1	
Total Recoverable Magnesium	14	mg/L	0.050	0.019	EPA-200.7	0.030		1	
Total Recoverable Sodium	23	mg/L	0.50	0.051	EPA-200.7	0.22		1	
Total Recoverable Potassium	2.2	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	230	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	190	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	15	mg/L	0.50	0.13	EPA-300.0	ND		3	
Nitrate as N	1.4	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	33	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	8.09	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	280	mg/L	20	10	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	2.3	ug/L	4.0	0.81	EPA-314.0	ND	J	7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/10/21 21:45	06/11/21 17:38		AK1	PE-OP4	1	B111386	EPA 200.2
2	SM-2320B	06/02/21 07:00	06/02/21 10:11		RML	MET-1	1	B109510	No Prep
3	EPA-300.0	05/27/21 21:00	05/28/21 05:50		SAV	IC2	1	B110321	No Prep
4	EPA-150.1	06/02/21 07:00	06/02/21 10:11		RML	MET-1	1	B109510	No Prep
5	EPA-160.1	06/01/21 12:00	06/01/21 12:00		CAD	MANUAL	2	B110496	No Prep
6	EPA-353.2	05/28/21 09:13	05/28/21 09:13		MC1	KONE-1	1	B110847	No Prep
7	EPA-314.0	06/08/21 02:00	06/08/21 05:11		SAV	IC6	1	B111065	No Prep

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Powell, OH 43065

**Reported:** 06/21/2021 18:28  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2117015-06	<b>Client Sample Name:</b> GW Monitoring, MW-12-4, 5/27/2021 11:40:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00043	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Arsenic	1.3	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	0.86	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/01/21 18:00	06/02/21 11:49		SAV	IC-4	1	B110568	No Prep
2	EPA-200.8	06/10/21 18:10	06/11/21 11:30		KHS	PE-EL2	1	B111382	EPA 200.2
3	EPA-200.7	06/10/21 21:45	06/11/21 17:38		AK1	PE-OP4	1	B111386	EPA 200.2

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Powell, OH 43065

Reported: 06/21/2021 18:28  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117015-07	<b>Client Sample Name:</b> GW Monitoring, MW-12-3, 5/27/2021 1:00:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
<b>Carbon tetrachloride</b>	<b>0.96</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.17</b>	<b>EPA-524.2</b>	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Chloroform</b>	<b>0.62</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/21/2021 18:28  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117015-07	<b>Client Sample Name:</b> GW Monitoring, MW-12-3, 5/27/2021 1:00:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 06/21/2021 18:28  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117015-07	<b>Client Sample Name:</b> GW Monitoring, MW-12-3, 5/27/2021 1:00:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/01/21 12:00	06/02/21 02:55	MGC	MS-V5	1	B110522	EPA 524.2

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Powell, OH 43065

**Reported:** 06/21/2021 18:28  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2117015-07	<b>Client Sample Name:</b> GW Monitoring, MW-12-3, 5/27/2021 1:00:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/01/21 12:00	06/02/21	02:55	MGC	MS-V5	1	B110522	EPA 524.2

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/21/2021 18:28  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Water Analysis (General Chemistry)

BCL Sample ID:	2117015-07	Client Sample Name:	GW Monitoring, MW-12-3, 5/27/2021 1:00:00PM, Blaine Tech - L. Henderson						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	54	mg/L	0.10	0.014	EPA-200.7	0.016		1	
Total Recoverable Magnesium	15	mg/L	0.050	0.019	EPA-200.7	0.048	S11	1	
Total Recoverable Sodium	26	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	2.6	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	230	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	190	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	14	mg/L	0.50	0.13	EPA-300.0	ND		3	
Nitrate as N	0.96	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	33	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	8.04	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	280	mg/L	20	10	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	3.1	ug/L	4.0	0.81	EPA-314.0	ND	J	7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/10/21 21:45	06/11/21 13:40		AK1	PE-OP4	1	B111385	EPA 200.2
2	SM-2320B	06/02/21 07:00	06/02/21 10:33		RML	MET-1	1	B109510	No Prep
3	EPA-300.0	05/27/21 21:00	05/28/21 09:37		SAV	IC2	1	B110321	No Prep
4	EPA-150.1	06/02/21 07:00	06/02/21 10:33		RML	MET-1	1	B109510	No Prep
5	EPA-160.1	06/01/21 12:00	06/01/21 12:00		CAD	MANUAL	2	B110496	No Prep
6	EPA-353.2	05/28/21 09:13	05/28/21 09:17		MC1	KONE-1	1	B110847	No Prep
7	EPA-314.0	06/08/21 02:00	06/08/21 08:00		SAV	IC6	1	B111065	No Prep

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Powell, OH 43065

**Reported:** 06/21/2021 18:28  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2117015-07	<b>Client Sample Name:</b> GW Monitoring, MW-12-3, 5/27/2021 1:00:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00029	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Arsenic	1.2	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/01/21 18:00	06/02/21 12:28		SAV	IC-4	1	B110568	No Prep
2	EPA-200.8	06/10/21 18:10	06/11/21 13:36		KHS	PE-EL2	1	B111381	EPA 200.2
3	EPA-200.7	06/10/21 21:45	06/11/21 13:40		AK1	PE-OP4	1	B111385	EPA 200.2

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Powell, OH 43065

Reported: 06/21/2021 18:28  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117015-08	<b>Client Sample Name:</b> GW Monitoring, MW-12-2, 5/27/2021 1:30:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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3761 Attucks Drive  
Powell, OH 43065

Reported: 06/21/2021 18:28  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117015-08	<b>Client Sample Name:</b> GW Monitoring, MW-12-2, 5/27/2021 1:30:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/21/2021 18:28  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117015-08	<b>Client Sample Name:</b> GW Monitoring, MW-12-2, 5/27/2021 1:30:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/01/21 12:00	06/02/21 03:19	MGC	MS-V5	1	B110522	EPA 524.2

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Powell, OH 43065

**Reported:** 06/21/2021 18:28  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2117015-08	<b>Client Sample Name:</b> GW Monitoring, MW-12-2, 5/27/2021 1:30:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/01/21 12:00	06/02/21	03:19	MGC	MS-V5	1	B110522	EPA 524.2

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Powell, OH 43065

Reported: 06/21/2021 18:28
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with 9 columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with 10 columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows correspond to runs 1 through 7.

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Powell, OH 43065

**Reported:** 06/21/2021 18:28  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2117015-08	<b>Client Sample Name:</b> GW Monitoring, MW-12-2, 5/27/2021 1:30:00PM, Blaine Tech - L. Henderson
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000089	mg/L	0.00020	0.000020	EPA-218.6	ND	J	1
Total Recoverable Arsenic	1.1	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	1.3	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	430	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/01/21 18:00	06/02/21 12:37		SAV	IC-4	1	B110568	No Prep
2	EPA-200.8	06/10/21 18:10	06/11/21 13:37		KHS	PE-EL2	1	B111381	EPA 200.2
3	EPA-200.7	06/10/21 21:45	06/11/21 13:43		AK1	PE-OP4	1	B111385	EPA 200.2

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Powell, OH 43065

Reported: 06/21/2021 18:28  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117015-09	<b>Client Sample Name:</b> GW Monitoring, EB-8-052721, 5/27/2021 1:45:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/21/2021 18:28  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117015-09	<b>Client Sample Name:</b> GW Monitoring, EB-8-052721, 5/27/2021 1:45:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/21/2021 18:28  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117015-09	<b>Client Sample Name:</b> GW Monitoring, EB-8-052721, 5/27/2021 1:45:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/01/21 12:00	06/02/21 03:43	MGC	MS-V5	1	B110522	EPA 524.2

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Powell, OH 43065

**Reported:** 06/21/2021 18:28  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2117015-09	<b>Client Sample Name:</b> GW Monitoring, EB-8-052721, 5/27/2021 1:45:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/01/21 12:00	06/02/21	03:43	MGC	MS-V5	1	B110522	EPA 524.2

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Powell, OH 43065

Reported: 06/21/2021 18:28
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows 1-8 detailing sample preparation and QC information.

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**Reported:** 06/21/2021 18:28  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2117015-09	<b>Client Sample Name:</b> GW Monitoring, EB-8-052721, 5/27/2021 1:45:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000096	mg/L	0.00020	0.000020	EPA-218.6	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/01/21 18:00	06/02/21	11:30	SAV	IC-4	1	B110568	No Prep
2	EPA-200.8	06/10/21 18:10	06/11/21	13:39	KHS	PE-EL2	1	B111381	EPA 200.2
3	EPA-200.7	06/10/21 21:45	06/11/21	13:45	AK1	PE-OP4	1	B111385	EPA 200.2

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Reported: 06/21/2021 18:28  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110522</b>						
Benzene	B110522-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B110522-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B110522-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B110522-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B110522-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B110522-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B110522-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B110522-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B110522-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B110522-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B110522-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B110522-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B110522-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B110522-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B110522-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B110522-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B110522-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B110522-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B110522-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B110522-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B110522-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B110522-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B110522-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B110522-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B110522-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B110522-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B110522-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B110522-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B110522-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B110522-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B110522-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B110522-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B110522-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B110522-BLK1	ND	ug/L	0.50	0.14	

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Reported: 06/21/2021 18:28  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110522</b>						
trans-1,3-Dichloropropene	B110522-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B110522-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B110522-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B110522-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B110522-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B110522-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B110522-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B110522-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B110522-BLK1	ND	ug/L	0.50	0.12	
Styrene	B110522-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B110522-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2-Tetrachloroethane	B110522-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B110522-BLK1	ND	ug/L	0.50	0.23	
Toluene	B110522-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B110522-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B110522-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B110522-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B110522-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B110522-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B110522-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B110522-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B110522-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B110522-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B110522-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B110522-BLK1	ND	ug/L	0.50	0.18	
Acetone	B110522-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B110522-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B110522-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B110522-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B110522-BLK1	ND	ug/L	2.0	2.0	
Carbon disulfide	B110522-BLK1	ND	ug/L	0.50	0.48	
trans-1,4-Dichloro-2-butene	B110522-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B110522-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B110522-BLK1	ND	ug/L	4.0	1.3	

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Powell, OH 43065

**Reported:** 06/21/2021 18:28  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110522</b>						
Ethyl t-butyl ether	B110522-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B110522-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B110522-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B110522-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B110522-BLK1	ND	ug/L	5.0	3.3	
Methyl iodide	B110522-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B110522-BLK1	ND	ug/L	5.0	2.4	
Methyl methacrylate	B110522-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B110522-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B110522-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B110522-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B110522-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B110522-BLK1	ND	ug/L	0.50	0.13	
<b>1,2-Dichloroethane-d4 (Surrogate)</b>	<b>B110522-BLK1</b>	<b>106</b>	<b>%</b>	<b>75 - 125 (LCL - UCL)</b>		
<b>Toluene-d8 (Surrogate)</b>	<b>B110522-BLK1</b>	<b>101</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		
<b>4-Bromofluorobenzene (Surrogate)</b>	<b>B110522-BLK1</b>	<b>103</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		

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**Reported:** 06/21/2021 18:28  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: B110522</b>										
Benzene	B110522-BS1	LCS	26.450	25.000	ug/L	106		70 - 130		
Bromodichloromethane	B110522-BS1	LCS	29.990	25.000	ug/L	120		70 - 130		
Chlorobenzene	B110522-BS1	LCS	27.070	25.000	ug/L	108		70 - 130		
Chloroethane	B110522-BS1	LCS	29.690	25.000	ug/L	119		70 - 130		
1,4-Dichlorobenzene	B110522-BS1	LCS	27.490	25.000	ug/L	110		70 - 130		
1,1-Dichloroethane	B110522-BS1	LCS	27.690	25.000	ug/L	111		70 - 130		
1,1-Dichloroethene	B110522-BS1	LCS	29.150	25.000	ug/L	117		70 - 130		
Toluene	B110522-BS1	LCS	27.750	25.000	ug/L	111		70 - 130		
Trichloroethene	B110522-BS1	LCS	27.870	25.000	ug/L	111		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B110522-BS1	LCS	10.810	10.000	ug/L	108		75 - 125		
Toluene-d8 (Surrogate)	B110522-BS1	LCS	10.260	10.000	ug/L	103		80 - 120		
4-Bromofluorobenzene (Surrogate)	B110522-BS1	LCS	10.210	10.000	ug/L	102		80 - 120		

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Powell, OH 43065

Reported: 06/21/2021 18:28  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
<b>QC Batch ID: B110522</b>		Used client sample: Y - Description: MW-12-4, 05/27/2021 11:40								
Benzene	MS	2117015-06	ND	24.830	25.000	ug/L		99.3		70 - 130
	MSD	2117015-06	ND	25.140	25.000	ug/L	1.2	101	20	70 - 130
Bromodichloromethane	MS	2117015-06	ND	27.280	25.000	ug/L		109		70 - 130
	MSD	2117015-06	ND	27.840	25.000	ug/L	2.0	111	20	70 - 130
Chlorobenzene	MS	2117015-06	ND	24.910	25.000	ug/L		99.6		70 - 130
	MSD	2117015-06	ND	25.760	25.000	ug/L	3.4	103	20	70 - 130
Chloroethane	MS	2117015-06	ND	27.450	25.000	ug/L		110		70 - 130
	MSD	2117015-06	ND	27.890	25.000	ug/L	1.6	112	20	70 - 130
1,4-Dichlorobenzene	MS	2117015-06	ND	24.550	25.000	ug/L		98.2		70 - 130
	MSD	2117015-06	ND	25.450	25.000	ug/L	3.6	102	20	70 - 130
1,1-Dichloroethane	MS	2117015-06	ND	26.080	25.000	ug/L		104		70 - 130
	MSD	2117015-06	ND	25.920	25.000	ug/L	0.6	104	20	70 - 130
1,1-Dichloroethene	MS	2117015-06	ND	26.790	25.000	ug/L		107		70 - 130
	MSD	2117015-06	ND	26.700	25.000	ug/L	0.3	107	20	70 - 130
Toluene	MS	2117015-06	ND	24.350	25.000	ug/L		97.4		70 - 130
	MSD	2117015-06	ND	24.760	25.000	ug/L	1.7	99.0	20	70 - 130
Trichloroethene	MS	2117015-06	0.27000	24.770	25.000	ug/L		98.0		70 - 130
	MSD	2117015-06	0.27000	25.230	25.000	ug/L	1.8	99.8	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	2117015-06	ND	10.810	10.000	ug/L		108		75 - 125
	MSD	2117015-06	ND	11.140	10.000	ug/L	3.0	111		75 - 125
Toluene-d8 (Surrogate)	MS	2117015-06	ND	10.070	10.000	ug/L		101		80 - 120
	MSD	2117015-06	ND	9.9600	10.000	ug/L	1.1	99.6		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	2117015-06	ND	10.370	10.000	ug/L		104		80 - 120
	MSD	2117015-06	ND	10.480	10.000	ug/L	1.1	105		80 - 120

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**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2) TICs

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110522</b>						
Chloroacetonitrile	B110522-BLK1	0	ug/L			
1-Chlorobutane	B110522-BLK1	0	ug/L			
1,1-Dichloropropanone	B110522-BLK1	0	ug/L			
Methyl acrylate	B110522-BLK1	0	ug/L			
Nitrobenzene	B110522-BLK1	0	ug/L			
2-Nitropropane	B110522-BLK1	0	ug/L			

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**Reported:** 06/21/2021 18:28  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B109509</b>						
Bicarbonate	B109509-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B109509-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B109509-BLK1	ND	mg/L	4.1	4.1	
<b>QC Batch ID: B109510</b>						
Bicarbonate	B109510-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B109510-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B109510-BLK1	ND	mg/L	4.1	4.1	
<b>QC Batch ID: B110321</b>						
Chloride	B110321-BLK1	ND	mg/L	0.50	0.13	
Nitrate as N	B110321-BLK1	ND	mg/L	0.10	0.024	
Sulfate	B110321-BLK1	ND	mg/L	1.0	0.14	
<b>QC Batch ID: B110496</b>						
Total Dissolved Solids @ 180 C	B110496-BLK1	ND	mg/L	6.7	3.3	
<b>QC Batch ID: B110847</b>						
Nitrite as N	B110847-BLK1	ND	mg/L	0.050	0.010	
<b>QC Batch ID: B111065</b>						
Perchlorate	B111065-BLK1	ND	ug/L	4.0	0.81	
<b>QC Batch ID: B111385</b>						
<b>Total Recoverable Calcium</b>	<b>B111385-BLK1</b>	<b>0.015979</b>	<b>mg/L</b>	<b>0.10</b>	<b>0.014</b>	<b>J</b>
<b>Total Recoverable Magnesium</b>	<b>B111385-BLK1</b>	<b>0.048364</b>	<b>mg/L</b>	<b>0.050</b>	<b>0.019</b>	<b>J</b>
Total Recoverable Sodium	B111385-BLK1	ND	mg/L	0.50	0.051	
Total Recoverable Potassium	B111385-BLK1	ND	mg/L	1.0	0.10	
<b>QC Batch ID: B111386</b>						
Total Recoverable Calcium	B111386-BLK1	ND	mg/L	0.10	0.014	
<b>Total Recoverable Magnesium</b>	<b>B111386-BLK1</b>	<b>0.030027</b>	<b>mg/L</b>	<b>0.050</b>	<b>0.019</b>	<b>J</b>
<b>Total Recoverable Sodium</b>	<b>B111386-BLK1</b>	<b>0.22008</b>	<b>mg/L</b>	<b>0.50</b>	<b>0.051</b>	<b>J</b>
Total Recoverable Potassium	B111386-BLK1	ND	mg/L	1.0	0.10	

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**Reported:** 06/21/2021 18:28  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
<b>QC Batch ID: B109509</b>										
Total Alkalinity as CaCO3	B109509-BS3	LCS	105.99	100.00	mg/L	106		90 - 110		
pH	B109509-BS2	LCS	7.0500	7.0000	pH Units	101		95 - 105		
<b>QC Batch ID: B109510</b>										
Total Alkalinity as CaCO3	B109510-BS3	LCS	101.64	100.00	mg/L	102		90 - 110		
pH	B109510-BS2	LCS	7.0500	7.0000	pH Units	101		95 - 105		
<b>QC Batch ID: B110321</b>										
Chloride	B110321-BS1	LCS	50.804	50.000	mg/L	102		90 - 110		
Nitrate as N	B110321-BS1	LCS	5.1440	5.0000	mg/L	103		90 - 110		
Sulfate	B110321-BS1	LCS	100.97	100.00	mg/L	101		90 - 110		
<b>QC Batch ID: B110496</b>										
Total Dissolved Solids @ 180 C	B110496-BS1	LCS	560.00	586.00	mg/L	95.6		90 - 110		
	B110496-BSD1	LCSD	590.00	586.00	mg/L	101	5.2	90 - 110	200	
<b>QC Batch ID: B110847</b>										
Nitrite as N	B110847-BS1	LCS	0.48673	0.50000	mg/L	97.3		90 - 110		
<b>QC Batch ID: B111065</b>										
Perchlorate	B111065-BS1	LCS	9.6144	10.000	ug/L	96.1		85 - 115		
<b>QC Batch ID: B111385</b>										
Total Recoverable Calcium	B111385-BS1	LCS	9.3579	10.000	mg/L	93.6		85 - 115		
Total Recoverable Magnesium	B111385-BS1	LCS	8.9767	10.000	mg/L	89.8		85 - 115		
Total Recoverable Sodium	B111385-BS1	LCS	9.3486	10.000	mg/L	93.5		85 - 115		
Total Recoverable Potassium	B111385-BS1	LCS	8.9988	10.000	mg/L	90.0		85 - 115		
<b>QC Batch ID: B111386</b>										
Total Recoverable Calcium	B111386-BS1	LCS	9.5355	10.000	mg/L	95.4		85 - 115		
Total Recoverable Magnesium	B111386-BS1	LCS	8.8435	10.000	mg/L	88.4		85 - 115		
Total Recoverable Sodium	B111386-BS1	LCS	9.5727	10.000	mg/L	95.7		85 - 115		
Total Recoverable Potassium	B111386-BS1	LCS	9.1561	10.000	mg/L	91.6		85 - 115		

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Reported: 06/21/2021 18:28
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes QC Batch IDs B109509, B109510, B110321, B110496, B110847, B111065, and B111385.

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Reported: 06/21/2021 18:28  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Water Analysis (General Chemistry)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
<b>QC Batch ID: B111385</b>		Used client sample: N								
Total Recoverable Magnesium	DUP	2116877-13	17.718	16.836		mg/L	5.1		20	
	MS	2116877-13	17.718	25.540	10.000	mg/L		78.2		75 - 125
	MSD	2116877-13	17.718	25.388	10.000	mg/L	0.6	76.7	20	75 - 125
Total Recoverable Sodium	DUP	2116877-13	21.896	20.928		mg/L	4.5		20	
	MS	2116877-13	21.896	30.276	10.000	mg/L		83.8		75 - 125
	MSD	2116877-13	21.896	29.793	10.000	mg/L	1.6	79.0	20	75 - 125
Total Recoverable Potassium	DUP	2116877-13	3.0084	2.8717		mg/L	4.7		20	
	MS	2116877-13	3.0084	12.002	10.000	mg/L		89.9		75 - 125
	MSD	2116877-13	3.0084	11.748	10.000	mg/L	2.1	87.4	20	75 - 125
<b>QC Batch ID: B111386</b>		Used client sample: Y - Description: MW-12-4, 05/27/2021 11:40								
Total Recoverable Calcium	DUP	2117015-06	54.296	54.341		mg/L	0.1		20	
	MS	2117015-06	54.296	63.396	10.000	mg/L		91.0		75 - 125
	MSD	2117015-06	54.296	63.184	10.000	mg/L	0.3	88.9	20	75 - 125
Total Recoverable Magnesium	DUP	2117015-06	13.751	13.703		mg/L	0.3		20	
	MS	2117015-06	13.751	22.159	10.000	mg/L		84.1		75 - 125
	MSD	2117015-06	13.751	22.537	10.000	mg/L	1.7	87.9	20	75 - 125
Total Recoverable Sodium	DUP	2117015-06	23.013	23.111		mg/L	0.4		20	
	MS	2117015-06	23.013	32.543	10.000	mg/L		95.3		75 - 125
	MSD	2117015-06	23.013	32.423	10.000	mg/L	0.4	94.1	20	75 - 125
Total Recoverable Potassium	DUP	2117015-06	2.1515	2.0739		mg/L	3.7		20	
	MS	2117015-06	2.1515	11.404	10.000	mg/L		92.5		75 - 125
	MSD	2117015-06	2.1515	11.209	10.000	mg/L	1.7	90.6	20	75 - 125

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**Reported:** 06/21/2021 18:28  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

## Metals Analysis

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110568</b>						
Hexavalent Chromium	B110568-BLK1	ND	mg/L	0.00020	0.000020	
<b>QC Batch ID: B111381</b>						
Total Recoverable Arsenic	B111381-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B111381-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B111381-BLK1	ND	ug/L	1.0	0.10	
<b>QC Batch ID: B111382</b>						
Total Recoverable Arsenic	B111382-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B111382-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B111382-BLK1	ND	ug/L	1.0	0.10	
<b>QC Batch ID: B111385</b>						
Total Recoverable Iron	B111385-BLK1	ND	ug/L	50	30	
<b>QC Batch ID: B111386</b>						
Total Recoverable Iron	B111386-BLK1	ND	ug/L	50	30	

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**Reported:** 06/21/2021 18:28  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
<b>QC Batch ID: B110568</b>										
Hexavalent Chromium	B110568-BS1	LCS	0.020127	0.020000	mg/L	101		90 - 110		
<b>QC Batch ID: B111381</b>										
Total Recoverable Arsenic	B111381-BS1	LCS	101.91	100.00	ug/L	102		85 - 115		
Total Recoverable Chromium	B111381-BS1	LCS	40.118	40.000	ug/L	100		85 - 115		
Total Recoverable Lead	B111381-BS1	LCS	103.94	100.00	ug/L	104		85 - 115		
<b>QC Batch ID: B111382</b>										
Total Recoverable Arsenic	B111382-BS1	LCS	99.775	100.00	ug/L	99.8		85 - 115		
Total Recoverable Chromium	B111382-BS1	LCS	39.555	40.000	ug/L	98.9		85 - 115		
Total Recoverable Lead	B111382-BS1	LCS	102.50	100.00	ug/L	103		85 - 115		
<b>QC Batch ID: B111385</b>										
Total Recoverable Iron	B111385-BS1	LCS	889.42	1000.0	ug/L	88.9		85 - 115		
<b>QC Batch ID: B111386</b>										
Total Recoverable Iron	B111386-BS1	LCS	879.80	1000.0	ug/L	88.0		85 - 115		

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Reported: 06/21/2021 18:28
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Control Limits Percent Recovery, Lab Quals. Includes QC Batch IDs B110568, B111381, B111382, B111385, and B111386.

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**Reported:** 06/21/2021 18:28  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

**Notes And Definitions**

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A02 The difference between duplicate readings is less than the quantitation limit.
- A03 The sample concentration was more than 4 times the spike level.
- A07 Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
- A40 Initial calibration linearity criteria not met.
- S05 The sample holding time was exceeded.
- S11 The analyte in the Method Blank is greater than the laboratory PQL but the sample result is greater than 10 times the Method Blank.
- V01 The Initial Calibration Verification (ICV) recovery is not within established control limits.
- V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.

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Date of Report: 06/21/2021

David Conner

Tidewater Inc. - Powell

3761 Attucks Drive

Powell, OH 43065

Client Project: 2Q21

BCL Project: JPL- GW Monitoring Wells-CLP

BCL Work Order: 2117137

Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 5/28/2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda

Client Service Rep

Stuart Buttram

Technical Director

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/21/2021 18:41  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Case Narrative

#### Sample Receipt

COC Number:

Samples received refrigerated to 1 °C

#### Sample List

<u>Lab Number</u>	<u>Date/Time Sampled</u>	<u>Sample Name</u>
2117137-01	05/28/2021 08:00	TB-9-052821
2117137-02	05/28/2021 09:30	MW-24-5
2117137-03	05/28/2021 10:15	MW-24-4
2117137-04	05/28/2021 10:50	MW-24-3
2117137-05	05/28/2021 11:30	MW-24-2
2117137-06	05/28/2021 12:45	MW-24-1
2117137-07	05/28/2021 14:00	EB-9-052821
2117137-08	05/28/2021 14:20	SB-2-052821

#### Requested Analysis

Calc, EPA-150.1, EPA-160.1, EPA-200.7 (TRM), EPA-200.8 (TRM), EPA-218.6, EPA-300.0, EPA-314.0, EPA-353.2, EPA-365.1, EPA-524.2, EPA-8270C, SM-2320B

<u>Sample</u>	<u>Analyte</u>	<u>Flag</u>
---------------	----------------	-------------

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**Reported:** 06/21/2021 18:41  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Case Narrative

<u>Sample</u>	<u>Analyte</u>	<u>Flag</u>
<b>Sample Qualifier Summary</b>		
2117137-01	EPA-524.2 Bromomethane	V11
2117137-01	EPA-524.2 Methyl iodide	A40
2117137-01	EPA-524.2 Methyl iodide	V01
2117137-01	EPA-524.2 Methyl iodide	V11
2117137-02	EPA-524.2 Bromomethane	V11
2117137-02	EPA-524.2 Methyl iodide	A40
2117137-02	EPA-524.2 Methyl iodide	V01
2117137-02	EPA-524.2 Methyl iodide	V11
2117137-03	EPA-524.2 Bromomethane	V11
2117137-03	EPA-524.2 Methyl iodide	A40
2117137-03	EPA-524.2 Methyl iodide	V01
2117137-03	EPA-524.2 Methyl iodide	V11
2117137-04	EPA-524.2 Bromomethane	V11
2117137-04	EPA-524.2 Methyl iodide	A40
2117137-04	EPA-524.2 Methyl iodide	V01
2117137-04	EPA-524.2 Methyl iodide	V11
2117137-05	EPA-524.2 Bromomethane	V11
2117137-05	EPA-524.2 Methyl iodide	A40
2117137-05	EPA-524.2 Methyl iodide	V01
2117137-05	EPA-524.2 Methyl iodide	V11
2117137-06	EPA-524.2 Bromomethane	V11
2117137-06	EPA-524.2 Methyl iodide	A40
2117137-06	EPA-524.2 Methyl iodide	V01
2117137-06	EPA-524.2 Methyl iodide	V11
2117137-07	EPA-524.2 Bromomethane	V11
2117137-07	EPA-524.2 Methyl iodide	A40
2117137-07	EPA-524.2 Methyl iodide	V01
2117137-07	EPA-524.2 Methyl iodide	V11
2117137-08	EPA-524.2 Bromomethane	V11
2117137-08	EPA-524.2 Methyl iodide	A40
2117137-08	EPA-524.2 Methyl iodide	V01
2117137-08	EPA-524.2 Methyl iodide	V11

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Powell, OH 43065

**Reported:** 06/21/2021 18:41  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Case Narrative

<u>Sample</u>		<u>Analyte</u>	<u>Flag</u>
<b>Holding Times</b>			
2117137-02	EPA-150.1	pH	S05
2117137-03	EPA-150.1	pH	S05
2117137-04	EPA-150.1	pH	S05
2117137-05	EPA-150.1	pH	S05
2117137-06	EPA-150.1	pH	S05
2117137-07	EPA-150.1	pH	S05
2117137-08	EPA-150.1	pH	S05
<b>Method Blanks</b>			
B110543-BLK1	EPA-524.2	Chloroacetonitrile	0 ug/L
B110543-BLK1	EPA-524.2	1-Chlorobutane	0 ug/L
B110543-BLK1	EPA-524.2	1,1-Dichloropropanone	0 ug/L
B110543-BLK1	EPA-524.2	Methyl acrylate	0 ug/L
B110543-BLK1	EPA-524.2	Nitrobenzene	0 ug/L
B110543-BLK1	EPA-524.2	2-Nitropropane	0 ug/L
B110569-BLK1	EPA-218.6	Hexavalent Chromium	0.000047000 mg/L
B111494-BLK1	EPA-200.7 (TRM)	Total Recoverable Calcium	0.080789 mg/L

<b>Matrix Spikes</b>			
B111494-MS1	EPA-200.7 (TRM)	Total Recoverable Calcium	A03
B111494-MS1	EPA-200.7 (TRM)	Total Recoverable Sodium	A03
B111494-MSD1	EPA-200.7 (TRM)	Total Recoverable Calcium	A03
B111494-MSD1	EPA-200.7 (TRM)	Total Recoverable Magnesium	Q03
B111494-MSD1	EPA-200.7 (TRM)	Total Recoverable Sodium	A03

**LCS**  
The LCS recoveries are within QC limits.

**Discussion**  
Advised client, NDMA received out of temperature, and past hold, client advised ok to proceed with analysis.

<b>Summary of Flags</b>	
A03	The sample concentration was more than 4 times the spike level.
A40	Initial calibration linearity criteria not met.
Q03	Matrix spike recovery(s) was(were) not within the control limits.
S05	The sample holding time was exceeded.
V01	The Initial Calibration Verification (ICV) recovery is not within established control limits.
V11	The Continuing Calibration Verification (CCV) recovery was not within established control limits.



Laboratories, Inc.

Environmental Testing Laboratory Since 1949

Chain of Custody Form



Report To: Tidewater, Inc. Client: Tidewater  
 Attn: David Conner Attn: David Conner  
 Street Address: 3761 Allucks Drive Address: 3761 Allucks Drive  
 City: Powell State: OH Zip: 43065 City: Powell State: OH Zip: 43065  
 Phone: 626 298 5715 Fax: 614 792 2897  
 Email Address: david.conner@tidewater.net  
 Submission #: 21-17137

Project Description: JPL-GW Monitoring  
 Project Code: 2021  
 Sampler (s): Blaine Tech  
 L. Hendricks

Analysis Requested

Sample #	Sample Description	Date	Time	Matrix*	VOCS EPA 524.2	TRM: Cr, Pb, As, Ca, Mg, K, Na, Fe	Hexavalent Cr -218.6 (mg/L)	Cl, NO3, NO2, SO4, Perch.	CO3, HCO3, MK, TDS, pH	Orthophosphate 365.1	1,4 Dioxane 8270SIM	NDMA 1625M
-1	TB - 9-052621	5/26/21	0800	LW	X	X	X	X	X	X	X	X
-2	MU - 24-5	9/30	0930	LW	X	X	X	X	X	X	X	X
-3	MU - 24-4	10/5	1015	LW	X	X	X	X	X	X	X	X
-4	MU - 24-3	10/5	1050	LW	X	X	X	X	X	X	X	X
-5	MU - 24-2	11/30	1130	LW	X	X	X	X	X	X	X	X
-6	MU - 24-1	12/5	1245	LW	X	X	X	X	X	X	X	X
-7	EB - 9-052621	1/4/00	1400	LW	X	X	X	X	X	X	X	X
-8	SIB - 2-052621	1/4/20	1420	LW	X	X	X	X	X	X	X	X

Notes: CHK BY DISTRIBUTION  
 GML SUB OUT  
 MS/MSD  
 SHORT HOLDING TIME  
 DO CH2 P019 MBAS COT

Matrix Types: S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other  
 Turnaround # of working days: 24 Hr Rush 48 Hr Rush 3-5 Day Rush Normal (10 - Days)  
 Lab TAT Approval: \*Additional Charges May Apply

Global ID: 1. Received By: 2. Received By: 3. Received By:  
 Cost Center: 1. Requisitioned By: 2. Requisitioned By: 3. Requisitioned By:  
 MBU Site: CYX R01A Geotracker 5 File (CA Default) Geotracker 2 File Other (Specify):

Comments: PLEASE NOTATE WHICH SAMPLES TO USE FOR CC (MS/MSD) 90% Level III and 10% Level IV data validation required; Level IV Notated on C of C NOTE: ALL ANALYSIS REQUIRED TO HAVE CALIBRATION SUMMARIES (Inform OC)

BC Laboratories, Inc. 4100 Atlas Court - Bakersfield CA 93308 (661) 327 - 4911 Fax: (661) 327 - 1918 www.bclabs.com

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 1

Submission #: 21-17137

SHIPPING INFORMATION: Fed Ex  UPS  GSO / GLS  Hand Delivery  BC Lab Field Service  Other  (Specify) \_\_\_\_\_

SHIPPING CONTAINER: Ice Chest  None  Box  Other  (Specify) \_\_\_\_\_

FREE LIQUID: YES  NO  W / S

Refrigerant: Ice  Blue Ice  None  Other  Comments: \_\_\_\_\_

Custody Seals: Ice Chest  Containers  None  Comments: \_\_\_\_\_

Intact? Yes  No  Intact? Yes  No

All samples received? Yes  No  All samples containers intact? Yes  No  Description(s) match COC? Yes  No

COC Received: YES  NO

Emissivity: 0.97 Container: PE Thermometer ID: 208 Date/Time: 5/22/21 1805

Temperature: (A) 1.0 °C / (C) 1.0 °C Analyst Init: PPE

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES		E	E	E	IJ	E	E	E		
4oz / 8oz / 16oz PE UNPRES										
3oz Cr <sup>6</sup>		D	D	D	GH	D	D	D		
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz		F	F	F	KL	F	F	F		
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PTa PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A									
40ml VOA VIAL		ABC	ABC	ABC	A-F	ABC	ABC	ABC		
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/605/8081A										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270						GH				
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: \_\_\_\_\_

Sample Numbering Completed By: PPE Date/Time: 5/22/21 1900

A = Actual / C = Corrected

Rev 22 04/13/21

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/21/2021 18:41  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

<b>2117137-01</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW Monitoring <b>Sampling Location:</b> --- <b>Sampling Point:</b> TB-9-052821 <b>Sampled By:</b> Blaine Tech - L. Henderson of BTST	<b>Receive Date:</b> 05/28/2021 18:05 <b>Sampling Date:</b> 05/28/2021 08:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-9-052821 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

<b>2117137-02</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW Monitoring <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-24-5 <b>Sampled By:</b> Blaine Tech - L. Henderson of BTST	<b>Receive Date:</b> 05/28/2021 18:05 <b>Sampling Date:</b> 05/28/2021 09:30 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-24-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>2117137-03</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW Monitoring <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-24-4 <b>Sampled By:</b> Blaine Tech - L. Henderson of BTST	<b>Receive Date:</b> 05/28/2021 18:05 <b>Sampling Date:</b> 05/28/2021 10:15 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-24-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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**Reported:** 06/21/2021 18:41  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

<b>2117137-04</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW Monitoring <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-24-3 <b>Sampled By:</b> Blaine Tech - L. Henderson of BTST	<b>Receive Date:</b> 05/28/2021 18:05 <b>Sampling Date:</b> 05/28/2021 10:50 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-24-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>2117137-05</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW Monitoring <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-24-2 <b>Sampled By:</b> Blaine Tech - L. Henderson of BTST	<b>Receive Date:</b> 05/28/2021 18:05 <b>Sampling Date:</b> 05/28/2021 11:30 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-24-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

<b>2117137-06</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW Monitoring <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-24-1 <b>Sampled By:</b> Blaine Tech - L. Henderson of BTST	<b>Receive Date:</b> 05/28/2021 18:05 <b>Sampling Date:</b> 05/28/2021 12:45 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-24-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Powell, OH 43065

**Reported:** 06/21/2021 18:41  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

<b>2117137-07</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW Monitoring <b>Sampling Location:</b> --- <b>Sampling Point:</b> EB-9-052821 <b>Sampled By:</b> Blaine Tech - L. Henderson of BTST	<b>Receive Date:</b> 05/28/2021 18:05 <b>Sampling Date:</b> 05/28/2021 14:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-9-052821 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

<b>2117137-08</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW Monitoring <b>Sampling Location:</b> --- <b>Sampling Point:</b> SB-2-052821 <b>Sampled By:</b> Blaine Tech - L. Henderson of BTST	<b>Receive Date:</b> 05/28/2021 18:05 <b>Sampling Date:</b> 05/28/2021 14:20 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): SB-2-052821 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Powell, OH 43065

Reported: 06/21/2021 18:41  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117137-01	<b>Client Sample Name:</b> JPL-GW Monitoring, TB-9-052821, 5/28/2021 8:00:00AM, Blaine Tech - L. Henderson
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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3761 Attucks Drive  
Powell, OH 43065

Reported: 06/21/2021 18:41  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117137-01	<b>Client Sample Name:</b> JPL-GW Monitoring, TB-9-052821, 5/28/2021 8:00:00AM, Blaine Tech - L. Henderson
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/21/2021 18:41  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117137-01	<b>Client Sample Name:</b> JPL-GW Monitoring, TB-9-052821, 5/28/2021 8:00:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	112	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	105	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/02/21 07:00	06/02/21 13:23	MGC	MS-V5	1	B110543	EPA 524.2

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Powell, OH 43065

**Reported:** 06/21/2021 18:41  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2117137-01	<b>Client Sample Name:</b> JPL-GW Monitoring, TB-9-052821, 5/28/2021 8:00:00AM, Blaine Tech - L. Henderson
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/02/21 07:00	06/02/21 13:23		MGC	MS-V5	1	B110543	EPA 524.2

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Powell, OH 43065

Reported: 06/21/2021 18:41  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117137-02	<b>Client Sample Name:</b> JPL-GW Monitoring, MW-24-5, 5/28/2021 9:30:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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3761 Attucks Drive  
Powell, OH 43065

Reported: 06/21/2021 18:41  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117137-02	<b>Client Sample Name:</b> JPL-GW Monitoring, MW-24-5, 5/28/2021 9:30:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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3761 Attucks Drive  
Powell, OH 43065

Reported: 06/21/2021 18:41  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117137-02	<b>Client Sample Name:</b> JPL-GW Monitoring, MW-24-5, 5/28/2021 9:30:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	111	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	104	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/02/21 07:00	06/02/21 13:48	MGC	MS-V5	1	B110543	EPA 524.2

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**Reported:** 06/21/2021 18:41  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2117137-02	<b>Client Sample Name:</b> JPL-GW Monitoring, MW-24-5, 5/28/2021 9:30:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/02/21 07:00	06/02/21	13:48	MGC	MS-V5	1	B110543	EPA 524.2

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Reported: 06/21/2021 18:41
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows 1-7 detailing analysis parameters for each run.

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**Reported:** 06/21/2021 18:41  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2117137-02	<b>Client Sample Name:</b> JPL-GW Monitoring, MW-24-5, 5/28/2021 9:30:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0026	mg/L	0.00020	0.000020	EPA-218.6	0.000047		1
Total Recoverable Arsenic	2.5	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	2.4	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	78	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/01/21 18:00	06/01/21 21:43		KB1	IC-4	1	B110569	No Prep
2	EPA-200.8	06/11/21 22:15	06/12/21 12:37		ARD	PE-EL4	1	B111496	EPA 200.2
3	EPA-200.7	06/11/21 21:50	06/14/21 14:50		AK1	PE-OP4	1	B111494	EPA 200.2

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Powell, OH 43065

**Reported:** 06/21/2021 18:41  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2117137-03	Client Sample Name:	JPL-GW Monitoring, MW-24-4, 5/28/2021 10:15:00AM, Blaine Tech - L. Henderson						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1	
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1	
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1	
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1	
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1	
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1	
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/21/2021 18:41  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117137-03	<b>Client Sample Name:</b> JPL-GW Monitoring, MW-24-4, 5/28/2021 10:15:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
<b>Styrene</b>	<b>0.14</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/21/2021 18:41  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117137-03	<b>Client Sample Name:</b> JPL-GW Monitoring, MW-24-4, 5/28/2021 10:15:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	114	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/02/21 07:00	06/02/21 14:12	MGC	MS-V5	1	B110543	EPA 524.2

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Powell, OH 43065

**Reported:** 06/21/2021 18:41  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2117137-03	<b>Client Sample Name:</b> JPL-GW Monitoring, MW-24-4, 5/28/2021 10:15:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/02/21 07:00	06/02/21 14:12		MGC	MS-V5	1	B110543	EPA 524.2

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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 06/21/2021 18:41
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows 1-7 corresponding to the main analysis table.

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Tidewater Inc. - Powell  
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Powell, OH 43065

**Reported:** 06/21/2021 18:41  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2117137-03	<b>Client Sample Name:</b> JPL-GW Monitoring, MW-24-4, 5/28/2021 10:15:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00012	mg/L	0.00020	0.000020	EPA-218.6	0.000047	J	1
Total Recoverable Arsenic	1.0	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	78	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/01/21 18:00	06/01/21	21:53	KB1	IC-4	1	B110569	No Prep
2	EPA-200.8	06/11/21 22:15	06/12/21	12:39	ARD	PE-EL4	1	B111496	EPA 200.2
3	EPA-200.7	06/11/21 21:50	06/14/21	15:07	AK1	PE-OP4	1	B111494	EPA 200.2

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Powell, OH 43065

Reported: 06/21/2021 18:41  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117137-04	<b>Client Sample Name:</b> JPL-GW Monitoring, MW-24-3, 5/28/2021 10:50:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 06/21/2021 18:41  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117137-04	<b>Client Sample Name:</b> JPL-GW Monitoring, MW-24-3, 5/28/2021 10:50:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Powell, OH 43065

**Reported:** 06/21/2021 18:41  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117137-04	<b>Client Sample Name:</b> JPL-GW Monitoring, MW-24-3, 5/28/2021 10:50:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	112	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/02/21 07:00	06/02/21 14:37	MGC	MS-V5	1	B110543	EPA 524.2

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/21/2021 18:41  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2117137-04	<b>Client Sample Name:</b> JPL-GW Monitoring, MW-24-3, 5/28/2021 10:50:00AM, Blaine Tech - L. Henderson
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/02/21 07:00	06/02/21 14:37		MGC	MS-V5	1	B110543	EPA 524.2

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3761 Attucks Drive
Powell, OH 43065

Reported: 06/21/2021 18:41
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows 1-7 corresponding to the main analysis table.

The results in this report apply to the samples analyzed in accordance with the chain of custody document. This analytical report must be reproduced in its entirety.

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Powell, OH 43065

**Reported:** 06/21/2021 18:41  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2117137-04	<b>Client Sample Name:</b> JPL-GW Monitoring, MW-24-3, 5/28/2021 10:50:00AM, Blaine Tech - L. Henderson
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00010	mg/L	0.00020	0.000020	EPA-218.6	0.000047	J	1
Total Recoverable Arsenic	1.4	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	78	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/01/21 18:00	06/01/21 22:02		KB1	IC-4	1	B110569	No Prep
2	EPA-200.8	06/11/21 22:15	06/12/21 12:40		ARD	PE-EL4	1	B111496	EPA 200.2
3	EPA-200.7	06/11/21 21:50	06/14/21 15:09		AK1	PE-OP4	1	B111494	EPA 200.2

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Powell, OH 43065

**Reported:** 06/21/2021 18:41  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2117137-05	Client Sample Name:	JPL-GW Monitoring, MW-24-2, 5/28/2021 11:30:00AM, Blaine Tech - L. Henderson						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1	
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1	
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1	
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
<b>Chloroform</b>	<b>0.89</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	ND		1	
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1	
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1	
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1	
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
<b>1,1-Dichloroethane</b>	<b>0.24</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.15</b>	<b>EPA-524.2</b>	ND	J	1	
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/21/2021 18:41  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117137-05	<b>Client Sample Name:</b> JPL-GW Monitoring, MW-24-2, 5/28/2021 11:30:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Tetrachloroethene</b>	<b>0.24</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.23</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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3761 Attucks Drive  
Powell, OH 43065

Reported: 06/21/2021 18:41  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117137-05	<b>Client Sample Name:</b> JPL-GW Monitoring, MW-24-2, 5/28/2021 11:30:00AM, Blaine Tech - L. Henderson
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/02/21 07:00	06/02/21 09:22	MGC	MS-V5	1	B110543	EPA 524.2

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Powell, OH 43065

**Reported:** 06/21/2021 18:41  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2117137-05	<b>Client Sample Name:</b> JPL-GW Monitoring, MW-24-2, 5/28/2021 11:30:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/02/21 07:00	06/02/21 09:22		MGC	MS-V5	1	B110543	EPA 524.2

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3761 Attucks Drive
Powell, OH 43065

Reported: 06/21/2021 18:41
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Lists various chemical constituents like Calcium, Magnesium, Sodium, Potassium, etc.

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Provides details for each of the 7 runs.

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**Reported:** 06/21/2021 18:41  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2117137-05	<b>Client Sample Name:</b> JPL-GW Monitoring, MW-24-2, 5/28/2021 11:30:00AM, Blaine Tech - L. Henderson
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0020	mg/L	0.00020	0.000020	EPA-218.6	0.000047		1
Total Recoverable Arsenic	1.9	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	2.3	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/01/21 18:00	06/01/21 22:12		KB1	IC-4	1	B110569	No Prep
2	EPA-200.8	06/11/21 22:15	06/12/21 12:26		ARD	PE-EL4	1	B111496	EPA 200.2
3	EPA-200.7	06/11/21 21:50	06/14/21 14:37		AK1	PE-OP4	1	B111494	EPA 200.2

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Powell, OH 43065

Reported: 06/21/2021 18:41  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117137-06	<b>Client Sample Name:</b> JPL-GW Monitoring, MW-24-1, 5/28/2021 12:45:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Chloroform</b>	<b>2.1</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/21/2021 18:41  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117137-06	<b>Client Sample Name:</b> JPL-GW Monitoring, MW-24-1, 5/28/2021 12:45:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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3761 Attucks Drive  
Powell, OH 43065

Reported: 06/21/2021 18:41  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117137-06	<b>Client Sample Name:</b> JPL-GW Monitoring, MW-24-1, 5/28/2021 12:45:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	118	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/02/21 07:00	06/02/21 15:01	MGC	MS-V5	1	B110543	EPA 524.2

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Powell, OH 43065

**Reported:** 06/21/2021 18:41  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2117137-06	<b>Client Sample Name:</b> JPL-GW Monitoring, MW-24-1, 5/28/2021 12:45:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/02/21 07:00	06/02/21 15:01	MGC	MS-V5	1	B110543	EPA 524.2

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Powell, OH 43065

**Reported:** 06/21/2021 18:41  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### 1,4-Dioxane (EPA Method 8270C)

<b>BCL Sample ID:</b> 2117137-06	<b>Client Sample Name:</b> JPL-GW Monitoring, MW-24-1, 5/28/2021 12:45:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,4-Dioxane	ND	ug/L	1.0	0.27	EPA-8270C	ND		1
Naphthalene-d8 (Surrogate)	85.8	%	70 - 130 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-8270C	06/03/21 11:00	06/04/21 21:48		OLH	MS-B4	1	B110870	EPA 3510C

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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 06/21/2021 18:41
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with 9 columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, Perchlorate, and ortho-Phosphate as P.

Table with 10 columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows correspond to the 8 constituents listed in the previous table.

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**Reported:** 06/21/2021 18:41  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2117137-06	<b>Client Sample Name:</b> JPL-GW Monitoring, MW-24-1, 5/28/2021 12:45:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00016	mg/L	0.00020	0.000020	EPA-218.6	0.000047	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	0.70	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	350	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/01/21 18:00	06/01/21 22:50		KB1	IC-4	1	B110569	No Prep
2	EPA-200.8	06/11/21 22:15	06/12/21 12:42		ARD	PE-EL4	1	B111496	EPA 200.2
3	EPA-200.7	06/11/21 21:50	06/14/21 15:11		AK1	PE-OP4	1	B111494	EPA 200.2

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Powell, OH 43065

Reported: 06/21/2021 18:41  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117137-07	<b>Client Sample Name:</b> JPL-GW Monitoring, EB-9-052821, 5/28/2021 2:00:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 06/21/2021 18:41  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117137-07	<b>Client Sample Name:</b> JPL-GW Monitoring, EB-9-052821, 5/28/2021 2:00:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Powell, OH 43065

**Reported:** 06/21/2021 18:41  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117137-07	<b>Client Sample Name:</b> JPL-GW Monitoring, EB-9-052821, 5/28/2021 2:00:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	114	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/02/21 07:00	06/02/21 15:26	MGC	MS-V5	1	B110543	EPA 524.2

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/21/2021 18:41  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2117137-07	<b>Client Sample Name:</b> JPL-GW Monitoring, EB-9-052821, 5/28/2021 2:00:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/02/21 07:00	06/02/21 15:26		MGC	MS-V5	1	B110543	EPA 524.2

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Powell, OH 43065

Reported: 06/21/2021 18:41  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Water Analysis (General Chemistry)

BCL Sample ID: 2117137-07		Client Sample Name: JPL-GW Monitoring, EB-9-052821, 5/28/2021 2:00:00PM, Blaine Tech - L. Henderson						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	0.034	mg/L	0.10	0.014	EPA-200.7	0.081	J	1
Total Recoverable Magnesium	0.027	mg/L	0.050	0.019	EPA-200.7	ND	J	1
Total Recoverable Sodium	0.12	mg/L	0.50	0.051	EPA-200.7	ND	J	1
Total Recoverable Potassium	ND	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	ND	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	ND	mg/L	0.50	0.13	EPA-300.0	ND		3
Nitrate as N	ND	mg/L	0.10	0.024	EPA-300.0	ND		3
Sulfate	ND	mg/L	1.0	0.14	EPA-300.0	ND		3
pH	6.09	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	4.0	mg/L	6.7	3.3	EPA-160.1	ND	J	5
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/11/21 21:50	06/14/21	15:13	AK1	PE-OP4	1	B111494	EPA 200.2
2	SM-2320B	06/02/21 07:00	06/02/21	16:34	RML	MET-1	1	B109514	No Prep
3	EPA-300.0	05/28/21 21:00	05/29/21	02:06	TMS	IC2	1	B110451	No Prep
4	EPA-150.1	06/02/21 07:00	06/02/21	16:34	RML	MET-1	1	B109514	No Prep
5	EPA-160.1	06/02/21 13:00	06/02/21	13:00	CAD	MANUAL	0.667	B110630	No Prep
6	EPA-353.2	05/28/21 21:44	05/28/21	21:47	KB1	KONE-1	1	B110849	No Prep
7	EPA-314.0	06/08/21 22:00	06/09/21	02:40	SAV	IC6	1	B111183	No Prep

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Powell, OH 43065

**Reported:** 06/21/2021 18:41  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2117137-07	<b>Client Sample Name:</b> JPL-GW Monitoring, EB-9-052821, 5/28/2021 2:00:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000074	mg/L	0.00020	0.000020	EPA-218.6	0.000047	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/01/21 18:00	06/01/21	23:19	TMS	IC-4	1	B110569	No Prep
2	EPA-200.8	06/11/21 22:15	06/12/21	12:44	ARD	PE-EL4	1	B111496	EPA 200.2
3	EPA-200.7	06/11/21 21:50	06/14/21	15:13	AK1	PE-OP4	1	B111494	EPA 200.2

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Powell, OH 43065

Reported: 06/21/2021 18:41  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117137-08	<b>Client Sample Name:</b> JPL-GW Monitoring, SB-2-052821, 5/28/2021 2:20:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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3761 Attucks Drive  
Powell, OH 43065

Reported: 06/21/2021 18:41  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117137-08	<b>Client Sample Name:</b> JPL-GW Monitoring, SB-2-052821, 5/28/2021 2:20:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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3761 Attucks Drive  
Powell, OH 43065

Reported: 06/21/2021 18:41  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117137-08	<b>Client Sample Name:</b> JPL-GW Monitoring, SB-2-052821, 5/28/2021 2:20:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	119	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	107	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/02/21 07:00	06/02/21 15:51	MGC	MS-V5	1	B110543	EPA 524.2

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Powell, OH 43065

**Reported:** 06/21/2021 18:41  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2117137-08	<b>Client Sample Name:</b> JPL-GW Monitoring, SB-2-052821, 5/28/2021 2:20:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/02/21 07:00	06/02/21 15:51		MGC	MS-V5	1	B110543	EPA 524.2

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Powell, OH 43065

Reported: 06/21/2021 18:41  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Water Analysis (General Chemistry)

BCL Sample ID: 2117137-08		Client Sample Name: JPL-GW Monitoring, SB-2-052821, 5/28/2021 2:20:00PM, Blaine Tech - L. Henderson						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	0.029	mg/L	0.10	0.014	EPA-200.7	0.081	J	1
Total Recoverable Magnesium	ND	mg/L	0.050	0.019	EPA-200.7	ND		1
Total Recoverable Sodium	0.11	mg/L	0.50	0.051	EPA-200.7	ND	J	1
Total Recoverable Potassium	ND	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	ND	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	ND	mg/L	0.50	0.13	EPA-300.0	ND		3
Nitrate as N	ND	mg/L	0.10	0.024	EPA-300.0	ND		3
Sulfate	0.20	mg/L	1.0	0.14	EPA-300.0	ND	J	3
pH	6.01	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	3.3	mg/L	6.7	3.3	EPA-160.1	ND	J	5
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/11/21 21:50	06/14/21 15:15		AK1	PE-OP4	1	B111494	EPA 200.2
2	SM-2320B	06/02/21 07:00	06/02/21 16:39		RML	MET-1	1	B109514	No Prep
3	EPA-300.0	05/28/21 21:00	05/29/21 02:27		TMS	IC2	1	B110451	No Prep
4	EPA-150.1	06/02/21 07:00	06/02/21 16:39		RML	MET-1	1	B109514	No Prep
5	EPA-160.1	06/02/21 13:00	06/02/21 13:00		CAD	MANUAL	0.667	B110630	No Prep
6	EPA-353.2	05/28/21 21:44	05/28/21 21:47		KB1	KONE-1	1	B110849	No Prep
7	EPA-314.0	06/08/21 22:00	06/09/21 02:56		SAV	IC6	1	B111183	No Prep

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Powell, OH 43065

**Reported:** 06/21/2021 18:41  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2117137-08	<b>Client Sample Name:</b> JPL-GW Monitoring, SB-2-052821, 5/28/2021 2:20:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000069	mg/L	0.00020	0.000020	EPA-218.6	0.000047	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-218.6	06/01/21 18:00	06/01/21 23:29	SAV	IC-4	1	B110569	No Prep
2	EPA-200.8	06/11/21 22:15	06/12/21 12:46	ARD	PE-EL4	1	B111496	EPA 200.2
3	EPA-200.7	06/11/21 21:50	06/14/21 15:15	AK1	PE-OP4	1	B111494	EPA 200.2

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/21/2021 18:41  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110543</b>						
Benzene	B110543-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B110543-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B110543-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B110543-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B110543-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B110543-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B110543-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B110543-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B110543-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B110543-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B110543-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B110543-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B110543-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B110543-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B110543-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B110543-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B110543-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B110543-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B110543-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B110543-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B110543-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B110543-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B110543-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B110543-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B110543-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B110543-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B110543-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B110543-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B110543-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B110543-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B110543-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B110543-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B110543-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B110543-BLK1	ND	ug/L	0.50	0.14	

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Reported: 06/21/2021 18:41  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110543</b>						
trans-1,3-Dichloropropene	B110543-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B110543-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B110543-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B110543-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B110543-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B110543-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B110543-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B110543-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B110543-BLK1	ND	ug/L	0.50	0.12	
Styrene	B110543-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B110543-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2,2-Tetrachloroethane	B110543-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B110543-BLK1	ND	ug/L	0.50	0.23	
Toluene	B110543-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B110543-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B110543-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B110543-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B110543-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B110543-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B110543-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B110543-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B110543-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B110543-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B110543-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B110543-BLK1	ND	ug/L	0.50	0.18	
Acetone	B110543-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B110543-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B110543-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B110543-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B110543-BLK1	ND	ug/L	2.0	2.0	
Carbon disulfide	B110543-BLK1	ND	ug/L	0.50	0.48	
trans-1,4-Dichloro-2-butene	B110543-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B110543-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B110543-BLK1	ND	ug/L	4.0	1.3	

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**Reported:** 06/21/2021 18:41  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110543</b>						
Ethyl t-butyl ether	B110543-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B110543-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B110543-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B110543-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B110543-BLK1	ND	ug/L	5.0	3.3	
Methyl iodide	B110543-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B110543-BLK1	ND	ug/L	5.0	2.4	
Methyl methacrylate	B110543-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B110543-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B110543-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B110543-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B110543-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B110543-BLK1	ND	ug/L	0.50	0.13	
<b>1,2-Dichloroethane-d4 (Surrogate)</b>	<b>B110543-BLK1</b>	<b>108</b>	<b>%</b>	<b>75 - 125 (LCL - UCL)</b>		
<b>Toluene-d8 (Surrogate)</b>	<b>B110543-BLK1</b>	<b>101</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		
<b>4-Bromofluorobenzene (Surrogate)</b>	<b>B110543-BLK1</b>	<b>103</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		

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**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
<b>QC Batch ID: B110543</b>										
Benzene	B110543-BS1	LCS	22.470	25.000	ug/L	89.9		70 - 130		
Bromodichloromethane	B110543-BS1	LCS	25.700	25.000	ug/L	103		70 - 130		
Chlorobenzene	B110543-BS1	LCS	23.990	25.000	ug/L	96.0		70 - 130		
Chloroethane	B110543-BS1	LCS	25.450	25.000	ug/L	102		70 - 130		
1,4-Dichlorobenzene	B110543-BS1	LCS	23.370	25.000	ug/L	93.5		70 - 130		
1,1-Dichloroethane	B110543-BS1	LCS	23.420	25.000	ug/L	93.7		70 - 130		
1,1-Dichloroethene	B110543-BS1	LCS	24.670	25.000	ug/L	98.7		70 - 130		
Toluene	B110543-BS1	LCS	23.200	25.000	ug/L	92.8		70 - 130		
Trichloroethene	B110543-BS1	LCS	24.310	25.000	ug/L	97.2		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B110543-BS1	LCS	10.460	10.000	ug/L	105		75 - 125		
Toluene-d8 (Surrogate)	B110543-BS1	LCS	10.080	10.000	ug/L	101		80 - 120		
4-Bromofluorobenzene (Surrogate)	B110543-BS1	LCS	10.350	10.000	ug/L	104		80 - 120		

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Reported: 06/21/2021 18:41  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
<b>QC Batch ID: B110543</b>		Used client sample: Y - Description: MW-24-2, 05/28/2021 11:30								
Benzene	MS	2117137-05	ND	25.280	25.000	ug/L		101		70 - 130
	MSD	2117137-05	ND	24.280	25.000	ug/L	4.0	97.1	20	70 - 130
Bromodichloromethane	MS	2117137-05	ND	28.160	25.000	ug/L		113		70 - 130
	MSD	2117137-05	ND	27.650	25.000	ug/L	1.8	111	20	70 - 130
Chlorobenzene	MS	2117137-05	ND	25.720	25.000	ug/L		103		70 - 130
	MSD	2117137-05	ND	24.510	25.000	ug/L	4.8	98.0	20	70 - 130
Chloroethane	MS	2117137-05	ND	28.010	25.000	ug/L		112		70 - 130
	MSD	2117137-05	ND	26.300	25.000	ug/L	6.3	105	20	70 - 130
1,4-Dichlorobenzene	MS	2117137-05	ND	25.340	25.000	ug/L		101		70 - 130
	MSD	2117137-05	ND	25.100	25.000	ug/L	1.0	100	20	70 - 130
1,1-Dichloroethane	MS	2117137-05	0.24000	26.730	25.000	ug/L		106		70 - 130
	MSD	2117137-05	0.24000	25.580	25.000	ug/L	4.4	101	20	70 - 130
1,1-Dichloroethene	MS	2117137-05	ND	27.470	25.000	ug/L		110		70 - 130
	MSD	2117137-05	ND	26.150	25.000	ug/L	4.9	105	20	70 - 130
Toluene	MS	2117137-05	ND	25.020	25.000	ug/L		100		70 - 130
	MSD	2117137-05	ND	24.850	25.000	ug/L	0.7	99.4	20	70 - 130
Trichloroethene	MS	2117137-05	ND	25.350	25.000	ug/L		101		70 - 130
	MSD	2117137-05	ND	25.100	25.000	ug/L	1.0	100	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	2117137-05	ND	11.060	10.000	ug/L		111		75 - 125
	MSD	2117137-05	ND	10.790	10.000	ug/L	2.5	108		75 - 125
Toluene-d8 (Surrogate)	MS	2117137-05	ND	10.010	10.000	ug/L		100		80 - 120
	MSD	2117137-05	ND	10.010	10.000	ug/L	0	100		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	2117137-05	ND	10.450	10.000	ug/L		104		80 - 120
	MSD	2117137-05	ND	10.440	10.000	ug/L	0.1	104		80 - 120

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**Reported:** 06/21/2021 18:41  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2) TICs

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110543</b>						
Chloroacetonitrile	B110543-BLK1	0	ug/L			
1-Chlorobutane	B110543-BLK1	0	ug/L			
1,1-Dichloropropanone	B110543-BLK1	0	ug/L			
Methyl acrylate	B110543-BLK1	0	ug/L			
Nitrobenzene	B110543-BLK1	0	ug/L			
2-Nitropropane	B110543-BLK1	0	ug/L			

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**Reported:** 06/21/2021 18:41  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### 1,4-Dioxane (EPA Method 8270C)

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110870</b>						
1,4-Dioxane	B110870-BLK1	ND	ug/L	1.0	0.27	
Naphthalene-d8 (Surrogate)	B110870-BLK1	88.9	%	70 - 130 (LCL - UCL)		

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**Reported:** 06/21/2021 18:41  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### 1,4-Dioxane (EPA Method 8270C)

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: B110870</b>										
1,4-Dioxane	B110870-BS1	LCS	46.820	50.000	ug/L	93.6		70	130	
Naphthalene-d8 (Surrogate)	B110870-BS1	LCS	8.4900	8.0000	ug/L	106		70	130	

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**Reported:** 06/21/2021 18:41  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### 1,4-Dioxane (EPA Method 8270C)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
<b>QC Batch ID: B110870</b>		Used client sample: N								
1,4-Dioxane	MS	2116941-03	ND	46.114	50.000	ug/L		92.2		70 - 130
	MSD	2116941-03	ND	43.534	50.000	ug/L	5.8	87.1	30	70 - 130
Naphthalene-d8 (Surrogate)	MS	2116941-03	ND	7.8804	8.0000	ug/L		98.5		70 - 130
	MSD	2116941-03	ND	7.7697	8.0000	ug/L	1.4	97.1		70 - 130

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**Reported:** 06/21/2021 18:41  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Water Analysis (General Chemistry)

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B109513</b>						
Bicarbonate	B109513-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B109513-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B109513-BLK1	ND	mg/L	4.1	4.1	
<b>QC Batch ID: B109514</b>						
Bicarbonate	B109514-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B109514-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B109514-BLK1	ND	mg/L	4.1	4.1	
<b>QC Batch ID: B110451</b>						
Chloride	B110451-BLK1	ND	mg/L	0.50	0.13	
Nitrate as N	B110451-BLK1	ND	mg/L	0.10	0.024	
Sulfate	B110451-BLK1	ND	mg/L	1.0	0.14	
<b>QC Batch ID: B110600</b>						
ortho-Phosphate as P	B110600-BLK1	ND	mg/L	0.050	0.017	
<b>QC Batch ID: B110630</b>						
Total Dissolved Solids @ 180 C	B110630-BLK1	ND	mg/L	6.7	3.3	
<b>QC Batch ID: B110849</b>						
Nitrite as N	B110849-BLK1	ND	mg/L	0.050	0.010	
<b>QC Batch ID: B111183</b>						
Perchlorate	B111183-BLK1	ND	ug/L	4.0	0.81	
<b>QC Batch ID: B111494</b>						
Total Recoverable Calcium	B111494-BLK1	0.080789	mg/L	0.10	0.014	J
Total Recoverable Magnesium	B111494-BLK1	ND	mg/L	0.050	0.019	
Total Recoverable Sodium	B111494-BLK1	ND	mg/L	0.50	0.051	
Total Recoverable Potassium	B111494-BLK1	ND	mg/L	1.0	0.10	

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**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
<b>QC Batch ID: B109513</b>										
Total Alkalinity as CaCO3	B109513-BS3	LCS	100.74	100.00	mg/L	101		90 - 110		
pH	B109513-BS2	LCS	7.0400	7.0000	pH Units	101		95 - 105		
<b>QC Batch ID: B109514</b>										
Total Alkalinity as CaCO3	B109514-BS3	LCS	101.49	100.00	mg/L	101		90 - 110		
pH	B109514-BS2	LCS	7.0400	7.0000	pH Units	101		95 - 105		
<b>QC Batch ID: B110451</b>										
Chloride	B110451-BS1	LCS	50.930	50.000	mg/L	102		90 - 110		
Nitrate as N	B110451-BS1	LCS	5.1750	5.0000	mg/L	104		90 - 110		
Sulfate	B110451-BS1	LCS	99.373	100.00	mg/L	99.4		90 - 110		
<b>QC Batch ID: B110600</b>										
ortho-Phosphate as P	B110600-BS1	LCS	0.50660	0.50000	mg/L	101		90 - 110		
<b>QC Batch ID: B110630</b>										
Total Dissolved Solids @ 180 C	B110630-BS1	LCS	585.00	586.00	mg/L	99.8		90 - 110		
	B110630-BSD1	LCSD	585.00	586.00	mg/L	99.8	0	90 - 110	200	
<b>QC Batch ID: B110849</b>										
Nitrite as N	B110849-BS1	LCS	0.48302	0.50000	mg/L	96.6		90 - 110		
<b>QC Batch ID: B111183</b>										
Perchlorate	B111183-BS1	LCS	9.2466	10.000	ug/L	92.5		85 - 115		
<b>QC Batch ID: B111494</b>										
Total Recoverable Calcium	B111494-BS1	LCS	9.5983	10.000	mg/L	96.0		85 - 115		
Total Recoverable Magnesium	B111494-BS1	LCS	9.0475	10.000	mg/L	90.5		85 - 115		
Total Recoverable Sodium	B111494-BS1	LCS	9.5729	10.000	mg/L	95.7		85 - 115		
Total Recoverable Potassium	B111494-BS1	LCS	9.0658	10.000	mg/L	90.7		85 - 115		

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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 06/21/2021 18:41
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes QC Batch IDs B109513, B109514, B110451, B110600, B110630, B110849, B111183, and B111494.

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/21/2021 18:41  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Water Analysis (General Chemistry)

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab
									RPD	Percent Recovery	
<b>QC Batch ID: B111494</b>		Used client sample: Y - Description: MW-24-2, 05/28/2021 11:30									
Total Recoverable Calcium	DUP	2117137-05	51.034	49.644		mg/L	2.8		20		
	MS	2117137-05	51.034	56.330	10.000	mg/L		53.0		75 - 125	A03
	MSD	2117137-05	51.034	54.472	10.000	mg/L	3.4	34.4	20	75 - 125	A03
Total Recoverable Magnesium	DUP	2117137-05	17.322	16.972		mg/L	2.0		20		
	MS	2117137-05	17.322	24.920	10.000	mg/L		76.0		75 - 125	
	MSD	2117137-05	17.322	24.063	10.000	mg/L	3.5	67.4	20	75 - 125	Q03
Total Recoverable Sodium	DUP	2117137-05	48.048	46.803		mg/L	2.6		20		
	MS	2117137-05	48.048	54.062	10.000	mg/L		60.1		75 - 125	A03
	MSD	2117137-05	48.048	52.514	10.000	mg/L	2.9	44.7	20	75 - 125	A03
Total Recoverable Potassium	DUP	2117137-05	3.0145	2.9098		mg/L	3.5		20		
	MS	2117137-05	3.0145	12.155	10.000	mg/L		91.4		75 - 125	
	MSD	2117137-05	3.0145	11.870	10.000	mg/L	2.4	88.6	20	75 - 125	

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/21/2021 18:41  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110569</b>						
Hexavalent Chromium	B110569-BLK1	0.000047000	mg/L	0.00020	0.000020	J
<b>QC Batch ID: B111494</b>						
Total Recoverable Iron	B111494-BLK1	ND	ug/L	50	30	
<b>QC Batch ID: B111496</b>						
Total Recoverable Arsenic	B111496-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B111496-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B111496-BLK1	ND	ug/L	1.0	0.10	

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/21/2021 18:41  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
<b>QC Batch ID: B110569</b>											
Hexavalent Chromium	B110569-BS1	LCS	0.019627	0.020000	mg/L	98.1		90 - 110			
<b>QC Batch ID: B111494</b>											
Total Recoverable Iron	B111494-BS1	LCS	897.86	1000.0	ug/L	89.8		85 - 115			
<b>QC Batch ID: B111496</b>											
Total Recoverable Arsenic	B111496-BS1	LCS	105.83	100.00	ug/L	106		85 - 115			
Total Recoverable Chromium	B111496-BS1	LCS	40.338	40.000	ug/L	101		85 - 115			
Total Recoverable Lead	B111496-BS1	LCS	104.57	100.00	ug/L	105		85 - 115			

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/21/2021 18:41  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Metals Analysis

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
<b>QC Batch ID: B110569</b>		Used client sample: Y - Description: MW-24-2, 05/28/2021 11:30								
Hexavalent Chromium	DUP	2117137-05	0.0020470	0.0020630		mg/L	0.8		10	
	MS	2117137-05	0.0020470	0.022048	0.020202	mg/L		99.0	90 - 110	
	MSD	2117137-05	0.0020470	0.022062	0.020202	mg/L	0.1	99.1	10	90 - 110
<b>QC Batch ID: B111494</b>		Used client sample: Y - Description: MW-24-2, 05/28/2021 11:30								
Total Recoverable Iron	DUP	2117137-05	ND	ND		ug/L			20	
	MS	2117137-05	ND	932.05	1000.0	ug/L		93.2	75 - 125	
	MSD	2117137-05	ND	899.48	1000.0	ug/L	3.6	89.9	20	75 - 125
<b>QC Batch ID: B111496</b>		Used client sample: Y - Description: MW-24-2, 05/28/2021 11:30								
Total Recoverable Arsenic	DUP	2117137-05	1.8800	1.7200		ug/L	8.9		20	J
	MS	2117137-05	1.8800	110.81	100.00	ug/L		109	70 - 130	
	MSD	2117137-05	1.8800	113.94	100.00	ug/L	2.8	112	20	70 - 130
Total Recoverable Chromium	DUP	2117137-05	2.2960	1.9080		ug/L	18.5		20	J
	MS	2117137-05	2.2960	39.979	40.000	ug/L		94.2	70 - 130	
	MSD	2117137-05	2.2960	41.510	40.000	ug/L	3.8	98.0	20	70 - 130
Total Recoverable Lead	DUP	2117137-05	ND	ND		ug/L			20	
	MS	2117137-05	ND	100.44	100.00	ug/L		100	70 - 130	
	MSD	2117137-05	ND	100.81	100.00	ug/L	0.4	101	20	70 - 130

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# Certificate of Analysis

FINAL REPORT

Work Orders: 1F07035

Report Date: 6/21/2021

Project: 2117137

Received Date: 6/7/2021

Turnaround Time: Normal

Phones: (661) 327-4911

Fax: (661) 327-1918

P.O. #:

Billing Code:

Attn: Natalie Serda

Client: BC Laboratories  
4100 Atlas Court  
Bakersfield, CA 93308

Dear Natalie Serda,

Enclosed are the results of analyses for samples received 6/07/21 with the Chain-of-Custody document. The samples were received in good condition, at 16.8 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

## Case Narrative

Samples were received past HT and above temp. Ok per Natalie Serda to proceed with analysis. BG 6/8/21

## Sample Results

Sample: 2117137-06 Sampled: 05/28/21 12:45 by Client  
1F07035-01 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 1625M		Instr: GCMS09				
Batch ID: W1F0441	Preparation: EPA 3535/SPE	Prepared: 06/08/21 08:07				Analyst: mid
N-Nitrosodimethylamine	ND	2.0	ng/l	1	06/17/21	O-09



Certificate of Analysis  
FINAL REPORT

Quality Control Results

Nitrosamines by isotopic dilution GC/MS CI Mode

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	RPD	Limit	Qualifier
Batch: W1F0441 - EPA 3535/SPE									
Blank (W1F0441-BLK1)				Prepared: 06/08/21 Analyzed: 06/16/21					
N-Nitrosodimethylamine	ND	2.0	ng/l						
LCS (W1F0441-BS1)				Prepared: 06/08/21 Analyzed: 06/16/21					
N-Nitrosodimethylamine	1.58	2.0	ng/l	2.00		79		50-150	
LCS Dup (W1F0441-BSD1)				Prepared: 06/08/21 Analyzed: 06/16/21					
N-Nitrosodimethylamine	1.67	2.0	ng/l	2.00		84		50-150	5 50

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Certificate of Analysis FINAL REPORT

Notes and Definitions

Table with 2 columns: Item, Definition. Rows include O-09, %REC, Dil, MRL, ND, RPD.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance. All results are expressed on wet weight basis unless otherwise specified. All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

Reviewed by:

Handwritten signature of Rahul R. Nair

Rahul R. Nair Project Manager



DoD-ELAP ANAB #L2457 • DoD-ISO ANAB # • ELAP-CA #1132 • EPA-UCMR #CA00211 • Guam-EPA #17-008R • HW-DOH # • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047 • NJ-DEP #CA015 • NV-DEP #NAC 445A • SCAQMD #93LA1006

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.



Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/21/2021 18:41  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

**Notes And Definitions**

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A03 The sample concentration was more than 4 times the spike level.
- A07 Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
- A40 Initial calibration linearity criteria not met.
- Q03 Matrix spike recovery(s) was(were) not within the control limits.
- S05 The sample holding time was exceeded.
- V01 The Initial Calibration Verification (ICV) recovery is not within established control limits.
- V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.

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Date of Report: 06/16/2021

David Conner

Tidewater Inc. - Powell

3761 Attucks Drive

Powell, OH 43065

Client Project: 2Q21

BCL Project: JPL- GW Monitoring Wells-CLP

BCL Work Order: 2117371

Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 6/1/2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda

Client Service Rep

Stuart Buttram

Technical Director

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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## Table of Contents

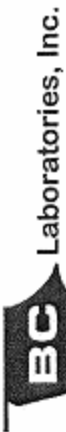
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Chain of Custody Form



2117371

Page 1 of 1

**Required Fields**

Report To: Tidewater, Inc.  
Client: David Connor  
Attn: David Connor  
Street Address: 3761 Allucks Drive  
City: Powell State: OH Zip: 43065  
Phone: 614 298-5715 Fax: 614 792-2897  
Email Address: david.connor@tidewater.net

Project Description: JPL-GW Monitoring  
Project Code: 2021  
Sampler(s): Blaine Tech  
L. WARRISSON

Submission #: \_\_\_\_\_

Sample #	Sample Description	Date	Time	Matrix*
-1	TB-10-060121	6/11/21	0600	L
-2	MU-11-5	10-9	0945	L
-3	MU-11-4	11-3	1130	L
-4	MU-11-3	11-3	1135	L
-5	DUP-7-2021	11-3	1130	L
-6	MU-11-2	11-3	1415	L
-7	MU-11-1	11-3	1315	L
-8	ER-10-060121			

**Analysis Requested**

Analysis	-1	-2	-3	-4	-5	-6	-7	-8
VOCs EPA 524.2	X	X	X	X	X	X	X	X
TRM: Cr, Pb, As, Ca, Mg, K	X	X	X	X	X	X	X	X
Na, Fe	X	X	X	X	X	X	X	X
Hexavalent Cr 6-218 (mg/L)	X	X	X	X	X	X	X	X
Cl, NO3, NO2, SO4, Perch.	X	X	X	X	X	X	X	X
CO3, HCO3, Alk., TDS, PH	X	X	X	X	X	X	X	X
Orthophosphate 365.1								
1,4 Dioxane 8270S1M								
NDMA 1625M								

**Notes**

APPROPRIATE HOLDING TIME  
DO O2 BOD MBAS COT  
CHECK BY DISTRIBUTION  
SUBMITTING  
SUB-OUT

**Billing**

Client: Tidewater  
Attn: David Connor  
Address: 3761 Allucks Drive  
City: Powell State: OH Zip: 43065

Are there any tests with holding times? less than or equal to 48 hours?  
 Yes  No  
\*Standard Turnaround = 30

**Matrix Types:** S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other

**Turnaround # of working days:**  24 Hr Rush  48 Hr Rush  3-5 Day Rush  Normal (10 - Days)

Lab TAT Approval: \_\_\_\_\_ \*Additional Charges May Apply

**Comments:**  
PLEASE NOTATE WHICH SAMPLES TO USE FOR GC (MS/MSD) 90% Level III and 10% Level IV data validation required; Level IV Notated on C of C  
NOTE: ALL ANALYSIS REQUIRED TO HAVE CALIBRATION SUMMARIES (inform GC)

**Cost Center:**  
1. Relinquished By: \_\_\_\_\_ Date: 6/11/21 Time: 500  
2. Relinquished By: \_\_\_\_\_ Date: 6/11/21 Time: 1825  
3. Relinquished By: \_\_\_\_\_ Date: 6/11/21 Time: 1825

**Global ID:**  
1. Received By: \_\_\_\_\_ Date: 6/11/21 Time: 500  
2. Received By: \_\_\_\_\_ Date: 6/11/21 Time: 1825  
3. Received By: \_\_\_\_\_ Date: 6/11/21 Time: 1825

BC Laboratories, Inc. 4100 Atlas Court - Bakersfield CA 93308 (661) 327-4911 Fax: (661) 327-1918 www.bclabs.com

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 Of 2

Submission #: 2117371

SHIPPING INFORMATION: Fed Ex  UPS  GSO / GLS  Hand Delivery  BC Lab Field Service  Other  (Specify) \_\_\_\_\_

SHIPPING CONTAINER: Ice Chest  None  Box  Other  (Specify) \_\_\_\_\_

FREE LIQUID: YES  NO  W / S

Refrigerant: Ice  Blue Ice  None  Other  Comments: \_\_\_\_\_

Custody Seals: Ice Chest  Containers  None  Intact? Yes  No  Intact? Yes  No  Comments: \_\_\_\_\_

All samples received? Yes  No  All samples containers intact? Yes  No  Description(s) match COC? Yes  No

GOC Received: YES  NO  Emissivity: 0.97 Container: PE Thermometer ID: 208 Date/Time: 6/11/21 1825

Temperature: (A) 1.6 °C / (C) 1.6 °C Analyst Init: PPE

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES		D	D	D	D	D	D	D		
4oz / 8oz / 16oz PE UNPRES										
2oz Cr <sup>6+</sup>		E	E	E	E	E	E	E		
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz		F	F	F	F	F	F	F		
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PTA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A									
40ml VOA VIAL		ABC	ABC	ABC	ABC	ABC	ABC	ABC		
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8081A										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
3oz EPA 548										
QT EPA 549										
QT EPA 9015M										
QT EPA 9270										
3oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: \_\_\_\_\_ Date/Time: 6-1-21 2041 Rev 22 04/13/21

Sample Numbering Completed By: gim

A = Actual / C = Corrected



Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/16/2021 17:39  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

<b>2117371-01</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL <b>Sampling Location:</b> --- <b>Sampling Point:</b> TB-10-060121 <b>Sampled By:</b> Blaine Tech of BTST	<b>Receive Date:</b> 06/01/2021 18:25 <b>Sampling Date:</b> 06/01/2021 08:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Trip Blank Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-10-060121 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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<b>2117371-02</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-11-5 <b>Sampled By:</b> Blaine Tech of BTST	<b>Receive Date:</b> 06/01/2021 18:25 <b>Sampling Date:</b> 06/01/2021 10:20 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-11-5 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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<b>2117371-03</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-11-4 <b>Sampled By:</b> Blaine Tech of BTST	<b>Receive Date:</b> 06/01/2021 18:25 <b>Sampling Date:</b> 06/01/2021 09:45 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-11-4 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/16/2021 17:39  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>2117371-04</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-11-3 <b>Sampled By:</b> Blaine Tech of BTST	<b>Receive Date:</b> 06/01/2021 18:25 <b>Sampling Date:</b> 06/01/2021 11:20 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-11-3 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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<b>2117371-05</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL <b>Sampling Location:</b> --- <b>Sampling Point:</b> DUP-7-2Q21 <b>Sampled By:</b> Blaine Tech of BTST	<b>Receive Date:</b> 06/01/2021 18:25 <b>Sampling Date:</b> 06/01/2021 11:35 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): DUP-7-2Q21 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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<b>2117371-06</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-11-2 <b>Sampled By:</b> Blaine Tech of BTST	<b>Receive Date:</b> 06/01/2021 18:25 <b>Sampling Date:</b> 06/01/2021 12:30 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-11-2 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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Powell, OH 43065

**Reported:** 06/16/2021 17:39  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>2117371-07</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-11-1 <b>Sampled By:</b> Blaine Tech of BTST	<b>Receive Date:</b> 06/01/2021 18:25 <b>Sampling Date:</b> 06/01/2021 14:15 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-11-1 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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<b>2117371-08</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL <b>Sampling Location:</b> --- <b>Sampling Point:</b> EB-10-060121 <b>Sampled By:</b> Blaine Tech of BTST	<b>Receive Date:</b> 06/01/2021 18:25 <b>Sampling Date:</b> 06/01/2021 13:15 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-10-060121 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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Powell, OH 43065

Reported: 06/16/2021 17:39  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117371-01	<b>Client Sample Name:</b> JPL, TB-10-060121, 6/1/2021 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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3761 Attucks Drive  
Powell, OH 43065

Reported: 06/16/2021 17:39  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117371-01	<b>Client Sample Name:</b> JPL, TB-10-060121, 6/1/2021 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 06/16/2021 17:39  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117371-01	<b>Client Sample Name:</b> JPL, TB-10-060121, 6/1/2021 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/03/21 07:00	06/03/21 08:55	MGC	MS-V5	1	B110686	EPA 524.2

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**Reported:** 06/16/2021 17:39  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2117371-01	<b>Client Sample Name:</b> JPL, TB-10-060121, 6/1/2021 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/03/21 07:00	06/03/21 08:55	MGC	MS-V5	1	B110686	EPA 524.2

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Powell, OH 43065

Reported: 06/16/2021 17:39  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117371-02	<b>Client Sample Name:</b> JPL, MW-11-5, 6/1/2021 10:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 06/16/2021 17:39  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117371-02	<b>Client Sample Name:</b> JPL, MW-11-5, 6/1/2021 10:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/16/2021 17:39  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117371-02	<b>Client Sample Name:</b> JPL, MW-11-5, 6/1/2021 10:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/03/21 07:00	06/03/21 09:19	MGC	MS-V5	1	B110686	EPA 524.2

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Powell, OH 43065

**Reported:** 06/16/2021 17:39  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2117371-02	<b>Client Sample Name:</b> JPL, MW-11-5, 6/1/2021 10:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/03/21 07:00	06/03/21	09:19	MGC	MS-V5	1	B110686	EPA 524.2

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Powell, OH 43065

Reported: 06/16/2021 17:39
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows 1-7 detailing run parameters.

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**Reported:** 06/16/2021 17:39  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2117371-02	<b>Client Sample Name:</b> JPL, MW-11-5, 6/1/2021 10:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00028	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Arsenic	5.4	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	0.79	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	180	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	0.13	ug/L	1.0	0.10	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/02/21 21:00	06/02/21 21:51		KB1	IC-4	1	B110699	No Prep
2	EPA-200.8	06/11/21 22:15	06/12/21 12:48		ARD	PE-EL4	1	B111496	EPA 200.2
3	EPA-200.7	06/11/21 21:50	06/14/21 15:18		AK1	PE-OP4	1	B111494	EPA 200.2

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Reported: 06/16/2021 17:39  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117371-03	<b>Client Sample Name:</b> JPL, MW-11-4, 6/1/2021 9:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 06/16/2021 17:39
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2117371-03) and Client Sample Name (JPL, MW-11-4, 6/1/2021 9:45:00AM, Blaine Tech)

Main data table with columns: Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Lists various chemical compounds and their detection results.

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/16/2021 17:39  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117371-03	<b>Client Sample Name:</b> JPL, MW-11-4, 6/1/2021 9:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	112	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/03/21 07:00	06/03/21 09:43	MGC	MS-V5	1	B110686	EPA 524.2

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Powell, OH 43065

**Reported:** 06/16/2021 17:39  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2117371-03	<b>Client Sample Name:</b> JPL, MW-11-4, 6/1/2021 9:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/03/21 07:00	06/03/21	09:43	MGC	MS-V5	1	B110686	EPA 524.2

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Powell, OH 43065

**Reported:** 06/16/2021 17:39  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

BCL Sample ID: 2117371-03		Client Sample Name: JPL, MW-11-4, 6/1/2021 9:45:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	15	mg/L	0.10	0.014	EPA-200.7	0.081		1	
Total Recoverable Magnesium	12	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	25	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	1.9	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	150	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	4.3	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	130	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	12	mg/L	0.50	0.13	EPA-300.0	0.15		3	
Nitrate as N	ND	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	5.5	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	8.46	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	210	mg/L	20	10	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/11/21 21:50	06/14/21	15:20	AK1	PE-OP4	1	B111494	EPA 200.2
2	SM-2320B	06/03/21 06:30	06/03/21	09:02	RML	MET-1	1	B109516	No Prep
3	EPA-300.0	06/01/21 23:00	06/02/21	02:43	ANK	IC8	1	B110560	No Prep
4	EPA-150.1	06/03/21 06:30	06/03/21	09:02	RML	MET-1	1	B109516	No Prep
5	EPA-160.1	06/03/21 13:00	06/03/21	13:00	CAD	MANUAL	2	B110747	No Prep
6	EPA-353.2	06/02/21 09:08	06/02/21	09:08	MC1	KONE-1	1	B110998	No Prep
7	EPA-314.0	06/09/21 14:00	06/09/21	19:40	GSP	IC6	1	B111287	No Prep

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**Reported:** 06/16/2021 17:39  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2117371-03	<b>Client Sample Name:</b> JPL, MW-11-4, 6/1/2021 9:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00014	mg/L	0.00020	0.000020	EPA-218.6	ND	J	1
Total Recoverable Arsenic	1.4	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/02/21 21:00	06/02/21 22:30		KB1	IC-4	1	B110699	No Prep
2	EPA-200.8	06/11/21 22:15	06/12/21 12:50		ARD	PE-EL4	1	B111496	EPA 200.2
3	EPA-200.7	06/11/21 21:50	06/14/21 15:20		AK1	PE-OP4	1	B111494	EPA 200.2

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Reported: 06/16/2021 17:39  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117371-04	<b>Client Sample Name:</b> JPL, MW-11-3, 6/1/2021 11:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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3761 Attucks Drive  
Powell, OH 43065

Reported: 06/16/2021 17:39  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117371-04	<b>Client Sample Name:</b> JPL, MW-11-3, 6/1/2021 11:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
<b>Styrene</b>	<b>0.15</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
<b>Trichloroethene</b>	<b>0.37</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.19</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Reported: 06/16/2021 17:39  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117371-04	<b>Client Sample Name:</b> JPL, MW-11-3, 6/1/2021 11:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	109	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/03/21 07:00	06/03/21 10:07	MGC	MS-V5	1	B110686	EPA 524.2

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Powell, OH 43065

**Reported:** 06/16/2021 17:39  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2117371-04	<b>Client Sample Name:</b> JPL, MW-11-3, 6/1/2021 11:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/03/21 07:00	06/03/21	10:07	MGC	MS-V5	1	B110686	EPA 524.2

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3761 Attucks Drive  
Powell, OH 43065

Reported: 06/16/2021 17:39  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Water Analysis (General Chemistry)

BCL Sample ID: 2117371-04		Client Sample Name: JPL, MW-11-3, 6/1/2021 11:20:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	17	mg/L	0.10	0.014	EPA-200.7	0.081		1	
Total Recoverable Magnesium	8.3	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	28	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	2.0	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	130	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	9.5	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	120	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	11	mg/L	0.50	0.13	EPA-300.0	0.15		3	
Nitrate as N	ND	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	3.7	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	8.82	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	180	mg/L	10	5.0	EPA-160.1	ND		5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/11/21 21:50	06/14/21	15:22	AK1	PE-OP4	1	B111494	EPA 200.2
2	SM-2320B	06/03/21 06:30	06/03/21	09:27	RML	MET-1	1	B109517	No Prep
3	EPA-300.0	06/01/21 23:00	06/02/21	03:04	ANK	IC8	1	B110560	No Prep
4	EPA-150.1	06/03/21 06:30	06/03/21	09:27	RML	MET-1	1	B109517	No Prep
5	EPA-160.1	06/03/21 13:00	06/03/21	13:00	CAD	MANUAL	1	B110747	No Prep
6	EPA-353.2	06/02/21 09:08	06/02/21	09:08	MC1	KONE-1	1	B110998	No Prep
7	EPA-314.0	06/09/21 14:00	06/09/21	19:55	GSP	IC6	1	B111287	No Prep

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**Reported:** 06/16/2021 17:39  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2117371-04	<b>Client Sample Name:</b> JPL, MW-11-3, 6/1/2021 11:20:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00013	mg/L	0.00020	0.000020	EPA-218.6	ND	J	1
Total Recoverable Arsenic	3.5	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/02/21 21:00	06/02/21 22:58		KB1	IC-4	1	B110699	No Prep
2	EPA-200.8	06/11/21 22:15	06/12/21 12:52		ARD	PE-EL4	1	B111496	EPA 200.2
3	EPA-200.7	06/11/21 21:50	06/14/21 15:22		AK1	PE-OP4	1	B111494	EPA 200.2

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Reported: 06/16/2021 17:39  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117371-05	<b>Client Sample Name:</b> JPL, DUP-7-2Q21, 6/1/2021 11:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 06/16/2021 17:39
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2117371-05) and Client Sample Name (JPL, DUP-7-2Q21, 6/1/2021 11:35:00AM, Blaine Tech)

Main data table with columns: Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quads, Run #. Lists various organic compounds and their detection results.

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Powell, OH 43065

**Reported:** 06/16/2021 17:39  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117371-05	<b>Client Sample Name:</b> JPL, DUP-7-2Q21, 6/1/2021 11:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	112	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	104	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/03/21 07:00	06/03/21 10:32	MGC	MS-V5	1	B110686	EPA 524.2

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/16/2021 17:39  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2117371-05	<b>Client Sample Name:</b> JPL, DUP-7-2Q21, 6/1/2021 11:35:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/03/21 07:00	06/03/21	10:32	MGC	MS-V5	1	B110686	EPA 524.2

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Powell, OH 43065

Reported: 06/16/2021 17:39
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows 1-7 detailing analysis parameters for each run.

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**Reported:** 06/16/2021 17:39  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2117371-05	<b>Client Sample Name:</b> JPL, DUP-7-2Q21, 6/1/2021 11:35:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000086	mg/L	0.00020	0.000020	EPA-218.6	ND	J	1
Total Recoverable Arsenic	3.5	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	1.2	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	49	ug/L	50	30	EPA-200.7	ND	J	3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/02/21 21:00	06/02/21 23:37		SAV	IC-4	1	B110699	No Prep
2	EPA-200.8	06/14/21 23:10	06/15/21 10:46		KHS	PE-EL4	1	B111648	EPA 200.2
3	EPA-200.7	06/14/21 23:00	06/15/21 13:10		JRG	PE-OP4	1	B111646	EPA 200.2

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Reported: 06/16/2021 17:39  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117371-06	<b>Client Sample Name:</b> JPL, MW-11-2, 6/1/2021 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

**Reported:** 06/16/2021 17:39  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117371-06	<b>Client Sample Name:</b> JPL, MW-11-2, 6/1/2021 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/16/2021 17:39  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117371-06	<b>Client Sample Name:</b> JPL, MW-11-2, 6/1/2021 12:30:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	109	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/03/21 07:00	06/03/21 10:56	MGC	MS-V5	1	B110686	EPA 524.2

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**Reported:** 06/16/2021 17:39  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2117371-06	<b>Client Sample Name:</b> JPL, MW-11-2, 6/1/2021 12:30:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/03/21 07:00	06/03/21	10:56	MGC	MS-V5	1	B110686	EPA 524.2

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**Reported:** 06/16/2021 17:39  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

BCL Sample ID: 2117371-06		Client Sample Name: JPL, MW-11-2, 6/1/2021 12:30:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	44	mg/L	0.10	0.014	EPA-200.7	0.026		1	
Total Recoverable Magnesium	19	mg/L	0.050	0.019	EPA-200.7	0.033		1	
Total Recoverable Sodium	23	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	2.9	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	230	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	190	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	16	mg/L	0.50	0.13	EPA-300.0	0.15		3	
Nitrate as N	ND	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	34	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	8.20	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	300	mg/L	20	10	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/14/21 23:00	06/15/21 13:23		JRG	PE-OP4	1	B111646	EPA 200.2
2	SM-2320B	06/03/21 06:30	06/03/21 09:44		RML	MET-1	1	B109517	No Prep
3	EPA-300.0	06/01/21 23:00	06/02/21 03:45		ANK	IC8	1	B110560	No Prep
4	EPA-150.1	06/03/21 06:30	06/03/21 09:44		RML	MET-1	1	B109517	No Prep
5	EPA-160.1	06/03/21 13:00	06/03/21 13:00		CAD	MANUAL	2	B110747	No Prep
6	EPA-353.2	06/02/21 09:08	06/02/21 09:08		MC1	KONE-1	1	B110998	No Prep
7	EPA-314.0	06/09/21 14:00	06/09/21 20:26		GSP	IC6	1	B111287	No Prep

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**Reported:** 06/16/2021 17:39  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2117371-06	<b>Client Sample Name:</b> JPL, MW-11-2, 6/1/2021 12:30:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000074	mg/L	0.00020	0.000020	EPA-218.6	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	0.62	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	170	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/02/21 21:00	06/02/21	23:46	SAV	IC-4	1	B110699	No Prep
2	EPA-200.8	06/14/21 23:10	06/15/21	10:48	KHS	PE-EL4	1	B111648	EPA 200.2
3	EPA-200.7	06/14/21 23:00	06/15/21	13:23	JRG	PE-OP4	1	B111646	EPA 200.2

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Reported: 06/16/2021 17:39
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2117371-07) and Client Sample Name (JPL, MW-11-1, 6/1/2021 2:15:00PM, Blaine Tech)

Main data table with 9 columns: Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quads, Run #. Lists various VOCs like Benzene, Bromobenzene, etc.

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Tidewater Inc. - Powell  
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Reported: 06/16/2021 17:39  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117371-07	<b>Client Sample Name:</b> JPL, MW-11-1, 6/1/2021 2:15:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/16/2021 17:39  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117371-07	<b>Client Sample Name:</b> JPL, MW-11-1, 6/1/2021 2:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	118	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/03/21 07:00	06/03/21 11:20	MGC	MS-V5	1	B110686	EPA 524.2

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/16/2021 17:39  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2117371-07	<b>Client Sample Name:</b> JPL, MW-11-1, 6/1/2021 2:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/03/21 07:00	06/03/21	11:20	MGC	MS-V5	1	B110686	EPA 524.2

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Powell, OH 43065

Reported: 06/16/2021 17:39
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with 9 columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quads, Run #. Lists various chemical constituents and their measured values.

Table with 10 columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Provides detailed run information for each sample.

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**Reported:** 06/16/2021 17:39  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2117371-07	<b>Client Sample Name:</b> JPL, MW-11-1, 6/1/2021 2:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00021	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
<b>Total Recoverable Iron</b>	<b>91</b>	<b>ug/L</b>	<b>50</b>	<b>30</b>	<b>EPA-200.7</b>	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/02/21 21:00	06/02/21	23:56	SAV	IC-4	1	B110699	No Prep
2	EPA-200.8	06/14/21 23:10	06/15/21	10:50	KHS	PE-EL4	1	B111648	EPA 200.2
3	EPA-200.7	06/14/21 23:00	06/15/21	13:29	JRG	PE-OP4	1	B111646	EPA 200.2

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Reported: 06/16/2021 17:39  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117371-08	<b>Client Sample Name:</b> JPL, EB-10-060121, 6/1/2021 1:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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3761 Attucks Drive  
Powell, OH 43065

Reported: 06/16/2021 17:39  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117371-08	<b>Client Sample Name:</b> JPL, EB-10-060121, 6/1/2021 1:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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3761 Attucks Drive  
Powell, OH 43065

Reported: 06/16/2021 17:39  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117371-08	<b>Client Sample Name:</b> JPL, EB-10-060121, 6/1/2021 1:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	114	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/03/21 07:00	06/03/21 11:44	MGC	MS-V5	1	B110686	EPA 524.2

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Powell, OH 43065

**Reported:** 06/16/2021 17:39  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2117371-08	<b>Client Sample Name:</b> JPL, EB-10-060121, 6/1/2021 1:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/03/21 07:00	06/03/21	11:44	MGC	MS-V5	1	B110686	EPA 524.2

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Reported: 06/16/2021 17:39  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Water Analysis (General Chemistry)

BCL Sample ID: 2117371-08		Client Sample Name: JPL, EB-10-060121, 6/1/2021 1:15:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	0.059	mg/L	0.10	0.014	EPA-200.7	0.026	J	1
Total Recoverable Magnesium	0.048	mg/L	0.050	0.019	EPA-200.7	0.033	J	1
Total Recoverable Sodium	0.18	mg/L	0.50	0.051	EPA-200.7	ND	J	1
Total Recoverable Potassium	ND	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	ND	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	0.19	mg/L	0.50	0.13	EPA-300.0	0.15	J	3
Nitrate as N	ND	mg/L	0.10	0.024	EPA-300.0	ND		3
Sulfate	0.22	mg/L	1.0	0.14	EPA-300.0	ND	J	3
pH	6.17	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	3.3	mg/L	6.7	3.3	EPA-160.1	ND	J	5
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/14/21 23:00	06/15/21 13:32		JRG	PE-OP4	1	B111646	EPA 200.2
2	SM-2320B	06/03/21 06:30	06/03/21 09:57		RML	MET-1	1	B109517	No Prep
3	EPA-300.0	06/01/21 23:00	06/02/21 04:46		ANK	IC8	1	B110560	No Prep
4	EPA-150.1	06/03/21 06:30	06/03/21 09:57		RML	MET-1	1	B109517	No Prep
5	EPA-160.1	06/03/21 13:00	06/03/21 13:00		CAD	MANUAL	0.667	B110747	No Prep
6	EPA-353.2	06/02/21 09:08	06/02/21 09:12		MC1	KONE-1	1	B110998	No Prep
7	EPA-314.0	06/09/21 14:00	06/09/21 21:27		GSP	IC6	1	B111287	No Prep

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**Reported:** 06/16/2021 17:39  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2117371-08	<b>Client Sample Name:</b> JPL, EB-10-060121, 6/1/2021 1:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00012	mg/L	0.00020	0.000020	EPA-218.6	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	0.69	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/02/21 21:00	06/02/21	23:27	SAV	IC-4	1	B110699	No Prep
2	EPA-200.8	06/14/21 23:10	06/15/21	10:52	KHS	PE-EL4	1	B111648	EPA 200.2
3	EPA-200.7	06/14/21 23:00	06/15/21	13:32	JRG	PE-OP4	1	B111646	EPA 200.2

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Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110686</b>						
Benzene	B110686-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B110686-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B110686-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B110686-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B110686-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B110686-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B110686-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B110686-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B110686-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B110686-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B110686-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B110686-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B110686-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B110686-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B110686-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B110686-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B110686-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B110686-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B110686-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B110686-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B110686-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B110686-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B110686-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B110686-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B110686-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B110686-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B110686-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B110686-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B110686-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B110686-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B110686-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B110686-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B110686-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B110686-BLK1	ND	ug/L	0.50	0.14	

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**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110686</b>						
trans-1,3-Dichloropropene	B110686-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B110686-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B110686-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B110686-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B110686-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B110686-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B110686-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B110686-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B110686-BLK1	ND	ug/L	0.50	0.12	
Styrene	B110686-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B110686-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2-Tetrachloroethane	B110686-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B110686-BLK1	ND	ug/L	0.50	0.23	
Toluene	B110686-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B110686-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B110686-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B110686-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B110686-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B110686-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B110686-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B110686-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B110686-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B110686-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B110686-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B110686-BLK1	ND	ug/L	0.50	0.18	
Acetone	B110686-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B110686-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B110686-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B110686-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B110686-BLK1	ND	ug/L	2.0	2.0	
Carbon disulfide	B110686-BLK1	ND	ug/L	0.50	0.48	
trans-1,4-Dichloro-2-butene	B110686-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B110686-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B110686-BLK1	ND	ug/L	4.0	1.3	

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**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110686</b>						
Ethyl t-butyl ether	B110686-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B110686-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B110686-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B110686-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B110686-BLK1	ND	ug/L	5.0	3.3	
Methyl iodide	B110686-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B110686-BLK1	ND	ug/L	5.0	2.4	
Methyl methacrylate	B110686-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B110686-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B110686-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B110686-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B110686-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B110686-BLK1	ND	ug/L	0.50	0.13	
<b>1,2-Dichloroethane-d4 (Surrogate)</b>	<b>B110686-BLK1</b>	<b>102</b>	<b>%</b>	<b>75 - 125 (LCL - UCL)</b>		
<b>Toluene-d8 (Surrogate)</b>	<b>B110686-BLK1</b>	<b>99.3</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		
<b>4-Bromofluorobenzene (Surrogate)</b>	<b>B110686-BLK1</b>	<b>104</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		

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**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
<b>QC Batch ID: B110686</b>										
Benzene	B110686-BS1	LCS	24.600	25.000	ug/L	98.4		70 - 130		
Bromodichloromethane	B110686-BS1	LCS	27.840	25.000	ug/L	111		70 - 130		
Chlorobenzene	B110686-BS1	LCS	23.690	25.000	ug/L	94.8		70 - 130		
Chloroethane	B110686-BS1	LCS	25.990	25.000	ug/L	104		70 - 130		
1,4-Dichlorobenzene	B110686-BS1	LCS	23.790	25.000	ug/L	95.2		70 - 130		
1,1-Dichloroethane	B110686-BS1	LCS	26.220	25.000	ug/L	105		70 - 130		
1,1-Dichloroethene	B110686-BS1	LCS	27.290	25.000	ug/L	109		70 - 130		
Toluene	B110686-BS1	LCS	23.460	25.000	ug/L	93.8		70 - 130		
Trichloroethene	B110686-BS1	LCS	24.950	25.000	ug/L	99.8		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B110686-BS1	LCS	11.710	10.000	ug/L	117		75 - 125		
Toluene-d8 (Surrogate)	B110686-BS1	LCS	9.7000	10.000	ug/L	97.0		80 - 120		
4-Bromofluorobenzene (Surrogate)	B110686-BS1	LCS	10.610	10.000	ug/L	106		80 - 120		

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Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: B110686</b>		Used client sample: Y - Description: MW-11-5, 06/01/2021 10:20								
Benzene	MS	2117371-02	ND	25.500	25.000	ug/L		102		70 - 130
	MSD	2117371-02	ND	24.020	25.000	ug/L	6.0	96.1	20	70 - 130
Bromodichloromethane	MS	2117371-02	ND	28.220	25.000	ug/L		113		70 - 130
	MSD	2117371-02	ND	27.800	25.000	ug/L	1.5	111	20	70 - 130
Chlorobenzene	MS	2117371-02	ND	24.330	25.000	ug/L		97.3		70 - 130
	MSD	2117371-02	ND	23.660	25.000	ug/L	2.8	94.6	20	70 - 130
Chloroethane	MS	2117371-02	ND	26.410	25.000	ug/L		106		70 - 130
	MSD	2117371-02	ND	24.030	25.000	ug/L	9.4	96.1	20	70 - 130
1,4-Dichlorobenzene	MS	2117371-02	ND	24.290	25.000	ug/L		97.2		70 - 130
	MSD	2117371-02	ND	23.540	25.000	ug/L	3.1	94.2	20	70 - 130
1,1-Dichloroethane	MS	2117371-02	ND	27.130	25.000	ug/L		109		70 - 130
	MSD	2117371-02	ND	25.700	25.000	ug/L	5.4	103	20	70 - 130
1,1-Dichloroethene	MS	2117371-02	ND	28.430	25.000	ug/L		114		70 - 130
	MSD	2117371-02	ND	26.680	25.000	ug/L	6.4	107	20	70 - 130
Toluene	MS	2117371-02	ND	23.990	25.000	ug/L		96.0		70 - 130
	MSD	2117371-02	ND	23.310	25.000	ug/L	2.9	93.2	20	70 - 130
Trichloroethene	MS	2117371-02	ND	25.430	25.000	ug/L		102		70 - 130
	MSD	2117371-02	ND	24.500	25.000	ug/L	3.7	98.0	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	2117371-02	ND	11.720	10.000	ug/L		117		75 - 125
	MSD	2117371-02	ND	11.400	10.000	ug/L	2.8	114		75 - 125
Toluene-d8 (Surrogate)	MS	2117371-02	ND	9.8400	10.000	ug/L		98.4		80 - 120
	MSD	2117371-02	ND	9.8900	10.000	ug/L	0.5	98.9		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	2117371-02	ND	10.440	10.000	ug/L		104		80 - 120
	MSD	2117371-02	ND	10.630	10.000	ug/L	1.8	106		80 - 120

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**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2) TICs

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110686</b>						
Chloroacetonitrile	B110686-BLK1	0	ug/L			
1-Chlorobutane	B110686-BLK1	0	ug/L			
1,1-Dichloropropanone	B110686-BLK1	0	ug/L			
Methyl acrylate	B110686-BLK1	0	ug/L			
Nitrobenzene	B110686-BLK1	0	ug/L			
2-Nitropropane	B110686-BLK1	0	ug/L			

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**Project Number:** 2Q21  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B109516</b>						
Bicarbonate	B109516-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B109516-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B109516-BLK1	ND	mg/L	4.1	4.1	
<b>QC Batch ID: B109517</b>						
Bicarbonate	B109517-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B109517-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B109517-BLK1	ND	mg/L	4.1	4.1	
<b>QC Batch ID: B109519</b>						
Bicarbonate	B109519-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B109519-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B109519-BLK1	ND	mg/L	4.1	4.1	
<b>QC Batch ID: B110560</b>						
Chloride	B110560-BLK1	0.14747	mg/L	0.50	0.13	J
Nitrate as N	B110560-BLK1	ND	mg/L	0.10	0.024	
Sulfate	B110560-BLK1	ND	mg/L	1.0	0.14	
<b>QC Batch ID: B110747</b>						
Total Dissolved Solids @ 180 C	B110747-BLK1	ND	mg/L	6.7	3.3	
<b>QC Batch ID: B110998</b>						
Nitrite as N	B110998-BLK1	ND	mg/L	0.050	0.010	
<b>QC Batch ID: B111007</b>						
ortho-Phosphate as P	B111007-BLK1	ND	mg/L	0.050	0.017	
<b>QC Batch ID: B111287</b>						
Perchlorate	B111287-BLK1	ND	ug/L	4.0	0.81	
<b>QC Batch ID: B111494</b>						
Total Recoverable Calcium	B111494-BLK1	0.080789	mg/L	0.10	0.014	J
Total Recoverable Magnesium	B111494-BLK1	ND	mg/L	0.050	0.019	
Total Recoverable Sodium	B111494-BLK1	ND	mg/L	0.50	0.051	
Total Recoverable Potassium	B111494-BLK1	ND	mg/L	1.0	0.10	
<b>QC Batch ID: B111646</b>						
Total Recoverable Calcium	B111646-BLK1	0.025967	mg/L	0.10	0.014	J

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**Project Manager:** David Conner

## Water Analysis (General Chemistry)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B111646</b>						
Total Recoverable Magnesium	B111646-BLK1	0.033226	mg/L	0.050	0.019	J
Total Recoverable Sodium	B111646-BLK1	ND	mg/L	0.50	0.051	
Total Recoverable Potassium	B111646-BLK1	ND	mg/L	1.0	0.10	

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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 06/16/2021 17:39
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Table with columns: Constituent, QC Sample ID, Type, Result, Spike Level, Units, Percent Recovery, RPD, Control Limits (Percent Recovery, RPD), Lab (Quals). Multiple rows for different QC batches (B109516, B109517, B109519, B110560, B110747, B110998, B111007, B111287, B111494, B111646) and their respective analytes.

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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 06/16/2021 17:39
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Qualls. Includes QC Batch IDs B109516, B109517, B109519, B110560, B110747, B110998, and B111007.

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Powell, OH 43065

Reported: 06/16/2021 17:39
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes QC Batch IDs B111287, B111494, and B111646.

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/16/2021 17:39  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110699</b>						
Hexavalent Chromium	B110699-BLK1	ND	mg/L	0.00020	0.000020	
<b>QC Batch ID: B111494</b>						
Total Recoverable Iron	B111494-BLK1	ND	ug/L	50	30	
<b>QC Batch ID: B111496</b>						
Total Recoverable Arsenic	B111496-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B111496-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B111496-BLK1	ND	ug/L	1.0	0.10	
<b>QC Batch ID: B111646</b>						
Total Recoverable Iron	B111646-BLK1	ND	ug/L	50	30	
<b>QC Batch ID: B111648</b>						
Total Recoverable Arsenic	B111648-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B111648-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B111648-BLK1	ND	ug/L	1.0	0.10	

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/16/2021 17:39  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
<b>QC Batch ID: B110699</b>										
Hexavalent Chromium	B110699-BS1	LCS	0.019634	0.020000	mg/L	98.2		90 - 110		
<b>QC Batch ID: B111494</b>										
Total Recoverable Iron	B111494-BS1	LCS	897.86	1000.0	ug/L	89.8		85 - 115		
<b>QC Batch ID: B111496</b>										
Total Recoverable Arsenic	B111496-BS1	LCS	105.83	100.00	ug/L	106		85 - 115		
Total Recoverable Chromium	B111496-BS1	LCS	40.338	40.000	ug/L	101		85 - 115		
Total Recoverable Lead	B111496-BS1	LCS	104.57	100.00	ug/L	105		85 - 115		
<b>QC Batch ID: B111646</b>										
Total Recoverable Iron	B111646-BS1	LCS	900.02	1000.0	ug/L	90.0		85 - 115		
<b>QC Batch ID: B111648</b>										
Total Recoverable Arsenic	B111648-BS1	LCS	107.51	100.00	ug/L	108		85 - 115		
Total Recoverable Chromium	B111648-BS1	LCS	42.676	40.000	ug/L	107		85 - 115		
Total Recoverable Lead	B111648-BS1	LCS	107.57	100.00	ug/L	108		85 - 115		

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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 06/16/2021 17:39
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Control Limits Percent Recovery, Lab Quals. Includes QC batches B110699, B111494, B111496, B111646, and B111648.

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/16/2021 17:39  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

**Notes And Definitions**

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A03 The sample concentration was more than 4 times the spike level.
- A07 Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
- A40 Initial calibration linearity criteria not met.
- Q03 Matrix spike recovery(s) was(were) not within the control limits.
- S05 The sample holding time was exceeded.
- V01 The Initial Calibration Verification (ICV) recovery is not within established control limits.
- V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.

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Date of Report: 06/23/2021

David Conner

Tidewater Inc. - Powell

3761 Attucks Drive

Powell, OH 43065

Client Project: 2Q21

BCL Project: JPL- GW Monitoring Wells-CLP

BCL Work Order: 2117605

Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 6/2/2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda

Client Service Rep

Stuart Buttram

Technical Director

Certifications: CA ELAP #1186; NV #CA00014; OR ELAP #4032-001; AK UST101

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Chain of Custody Form



Report To: Tidewater, Inc.  
 Client: David Conner  
 Attn: David Conner  
 Street Address: 3761 Attucks Drive  
 City: Powell State: OH Zip: 43065  
 Phone: 626 299 5715 Fax: 614 792 2897  
 Email Address: david.conner@tldah2o.net  
 Submission #: 21-17605

Project Description: JPL-GW Monitoring  
 Project Code: 2021  
 Sampler(s): Blaine Tech  
 C. Henderson

Analysis Requested:  
 VOCs EPA 524.2  
 TRM: Cr, Pb, As, Ca, Mg, K  
 Na, Fe  
 Hexavalent Cr-218.6 (mg/L)  
 Cl, NO3, NO2, SO4, Perch.  
 CO3, HCO3, Alk, TDS, pH  
 Orthophosphate 365.1  
 1,4 Dioxane B270S1M  
 NDMA 1625M

Billing:  
 Client: Tidewater  
 Attn: David Conner  
 Address: 3761 Attucks Drive  
 City: Powell State: OH Zip: 43065  
 Are there any tests with holding times? less than or equal to 48 hours?  
 Yes  No  
 \*Standard Turnaround = 10

Notes:  
 SILENT DISTRIBUTION  
 SUB OUT  
 SHORT HOLDING TIME  
 NO NO OF SS  
 DO CI2 BOU MBAS COT

Sample #	Sample Description	Date	Time	Matrix*
-1	TB-11-060221	6/27/11	0900	W
-2	MW-20-5		1030	
-3	MW-20-9		1105	
-4	MD-20-3		1140	
-5	DOP-8-2021		1155	
-6	MW-20-7		1245	
-7	EB-11-060221		1300	

Matrix Types: S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other

Turnaround # of working days:  24 Hr Rush  48 Hr Rush  3-5 Day Rush  Normal (10 - Days)

Lab TAT Approval: \_\_\_\_\_ \*Additional Charges May Apply

Comments:  
 PLEASE NOTATE WHICH SAMPLES TO USE FOR QC (MS/MSD)  
 90% Level III and 10% Level IV data validation required; Level IV Notated on C of C  
 NOTE: ALL ANALYSIS REQUIRED TO HAVE CALIBRATION SUMMARIES (Inform OC)

Global ID:  
 1. Received By: [Signature] Date: 6/27/11 Time: 1200  
 2. Relinquished By: [Signature] Date: 6/27/11 Time: 1830  
 3. Relinquished By: [Signature] Date: 6/27/11 Time: 1830

BC Laboratories, Inc. 4100 Atlas Court - Bakersfield CA 93308 (661) 327 - 4911 Fax: (661) 327 - 1918 www.bclabs.com

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 1

Submission #: 21-17605

SHIPPING INFORMATION		SHIPPING CONTAINER		FREE LIQUID
Fed Ex <input type="checkbox"/>	UPS <input type="checkbox"/>	GSO / GLS <input type="checkbox"/>	Hand Delivery <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>
BC Lab Field Service <input checked="" type="checkbox"/>		Other <input type="checkbox"/> (Specify) _____		W / S
Ice Chest <input checked="" type="checkbox"/>		None <input type="checkbox"/> Box <input type="checkbox"/>		
Other <input type="checkbox"/> (Specify) _____		Other <input type="checkbox"/> (Specify) _____		

Refrigerant: Ice  Blue Ice  None  Other  Comments: \_\_\_\_\_

Custody Seals: Ice Chest  Containers  None  Comments: \_\_\_\_\_

Intact? Yes  No  Intact? Yes  No

All samples received? Yes  No  All samples containers intact? Yes  No  Description(s) match COC? Yes  No

COC Received  YES  NO

Emissivity: 0.97 Container: PC Thermometer ID: 208 Date/Time: 6/2/21 12:30

Temperature: (A) 0.9 °C / (C) 0.9 °C Analyst Init: PRE

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES		E	E	E	E	E	E			
4oz / 8oz / 16oz PE UNPRES										
2oz Cr <sup>6</sup>		D	D	D	D	D	D			
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz		F	F	F	F	F	F			
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PTA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A									
40ml VOA VIAL		A-C	A-C	A-C	A-C	A-C	A-C			
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/508/8081A										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: \_\_\_\_\_

Sample Numbering Completed By: PRE Date/Time: 6/2/21 2:53 Rev 22 04/13/21

A = Actual C = Corrected [S:\WPDoc\WordPerfect\LAB\_DOC\CFOR181818\ANR00w 23]

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/23/2021 11:57  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

<b>2117605-01</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> TB-11-060221 <b>Sampled By:</b> Blaine Tech of BTST	<b>Receive Date:</b> 06/02/2021 18:30 <b>Sampling Date:</b> 06/02/2021 09:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-11-060221 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

<b>2117605-02</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-20-5 <b>Sampled By:</b> Blaine Tech of BTST	<b>Receive Date:</b> 06/02/2021 18:30 <b>Sampling Date:</b> 06/02/2021 10:30 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-20-5 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

<b>2117605-03</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-20-4 <b>Sampled By:</b> Blaine Tech of BTST	<b>Receive Date:</b> 06/02/2021 18:30 <b>Sampling Date:</b> 06/02/2021 11:05 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-20-4 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/23/2021 11:57  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

<b>2117605-04</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-20-3 <b>Sampled By:</b> Blaine Tech of BTST	<b>Receive Date:</b> 06/02/2021 18:30 <b>Sampling Date:</b> 06/02/2021 11:40 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-20-3 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

<b>2117605-05</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> DUP-8-2Q21 <b>Sampled By:</b> Blaine Tech of BTST	<b>Receive Date:</b> 06/02/2021 18:30 <b>Sampling Date:</b> 06/02/2021 11:55 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): DUP-8-2Q21 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

<b>2117605-06</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-20-2 <b>Sampled By:</b> Blaine Tech of BTST	<b>Receive Date:</b> 06/02/2021 18:30 <b>Sampling Date:</b> 06/02/2021 12:45 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-20-2 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/23/2021 11:57  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
------------	---------------------------

<b>2117605-07</b>	<b>COC Number:</b> ---	<b>Receive Date:</b> 06/02/2021 18:30
	<b>Project Number:</b> JPL GW	<b>Sampling Date:</b> 06/02/2021 13:00
	<b>Sampling Location:</b> ---	<b>Sample Depth:</b> ---
	<b>Sampling Point:</b> EB-11-060221	<b>Lab Matrix:</b> Water
	<b>Sampled By:</b> Blaine Tech of BTST	<b>Sample Type:</b> Water
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): EB-11-060221
		Matrix: WG
		Sample QC Type (SACode): CS
		Cooler ID:

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/23/2021 11:57  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2117605-01 Client Sample Name: JPL GW, TB-11-060221, 6/2/2021 9:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 06/23/2021 11:57
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2117605-01) and Client Sample Name (JPL GW, TB-11-060221, 6/2/2021 9:00:00AM, Blaine Tech)

Main data table with columns: Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quads, Run #. Lists various chemical constituents and their analysis results.

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/23/2021 11:57  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117605-01	<b>Client Sample Name:</b> JPL GW, TB-11-060221, 6/2/2021 9:00:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	111	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/03/21 07:00	06/03/21 14:09	MGC	MS-V5	1	B110686	EPA 524.2

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**Reported:** 06/23/2021 11:57  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2117605-01	<b>Client Sample Name:</b> JPL GW, TB-11-060221, 6/2/2021 9:00:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/03/21 07:00	06/03/21 14:09		MGC	MS-V5	1	B110686	EPA 524.2

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Reported: 06/23/2021 11:57  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117605-02	<b>Client Sample Name:</b> JPL GW, MW-20-5, 6/2/2021 10:30:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 06/23/2021 11:57  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2117605-02		Client Sample Name: JPL GW, MW-20-5, 6/2/2021 10:30:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
<b>Styrene</b>	<b>0.13</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
<b>Carbon disulfide</b>	<b>0.53</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.48</b>	<b>EPA-524.2</b>	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Powell, OH 43065

**Reported:** 06/23/2021 11:57  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117605-02	<b>Client Sample Name:</b> JPL GW, MW-20-5, 6/2/2021 10:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	114	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/03/21 07:00	06/03/21 14:34	MGC	MS-V5	1	B110686	EPA 524.2

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**Reported:** 06/23/2021 11:57  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2117605-02	<b>Client Sample Name:</b> JPL GW, MW-20-5, 6/2/2021 10:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/03/21 07:00	06/03/21 14:34		MGC	MS-V5	1	B110686	EPA 524.2

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**Reported:** 06/23/2021 11:57  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

BCL Sample ID: 2117605-02		Client Sample Name: JPL GW, MW-20-5, 6/2/2021 10:30:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	7.7	mg/L	0.10	0.014	EPA-200.7	0.056		1	
Total Recoverable Magnesium	2.4	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	53	mg/L	0.50	0.051	EPA-200.7	0.20		1	
Total Recoverable Potassium	1.4	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	140	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	7.9	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	120	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	7.8	mg/L	0.50	0.13	EPA-300.0	0.14		3	
Nitrate as N	ND	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	7.4	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	8.73	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	210	mg/L	20	10	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/18/21 19:55	06/21/21	19:48	JRG	PE-OP4	1	B112104	EPA 200.2
2	SM-2320B	06/03/21 14:00	06/03/21	16:21	RML	MET-1	1	B109521	No Prep
3	EPA-300.0	06/02/21 23:00	06/03/21	07:10	ANK	IC2	1	B110708	No Prep
4	EPA-150.1	06/03/21 14:00	06/03/21	16:21	RML	MET-1	1	B109521	No Prep
5	EPA-160.1	06/04/21 12:00	06/04/21	12:00	CAD	MANUAL	2	B110834	No Prep
6	EPA-353.2	06/03/21 09:38	06/03/21	10:36	MC1	KONE-1	1	B111011	No Prep
7	EPA-314.0	06/10/21 01:00	06/10/21	04:09	ANK	IC6	1	B111288	No Prep

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Powell, OH 43065

**Reported:** 06/23/2021 11:57  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2117605-02	<b>Client Sample Name:</b> JPL GW, MW-20-5, 6/2/2021 10:30:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00023	mg/L	0.00020	0.000020	EPA-218.6	0.000023		1
Total Recoverable Arsenic	1.3	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	0.88	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	190	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/03/21 13:00	06/03/21 13:27		SAV	IC-4	1	B110701	No Prep
2	EPA-200.8	06/14/21 23:10	06/15/21 10:56		KHS	PE-EL4	1	B111648	EPA 200.2
3	EPA-200.7	06/18/21 19:55	06/21/21 19:48		JRG	PE-OP4	1	B112104	EPA 200.2

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/23/2021 11:57  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117605-03	<b>Client Sample Name:</b> JPL GW, MW-20-4, 6/2/2021 11:05:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 06/23/2021 11:57
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2117605-03) and Client Sample Name (JPL GW, MW-20-4, 6/2/2021 11:05:00AM, Blaine Tech)

Main data table with columns: Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quads, Run #. Lists various chemical compounds and their test results.

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/23/2021 11:57  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117605-03	<b>Client Sample Name:</b> JPL GW, MW-20-4, 6/2/2021 11:05:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	115	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/03/21 07:00	06/03/21 14:58	MGC	MS-V5	1	B110686	EPA 524.2

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Powell, OH 43065

**Reported:** 06/23/2021 11:57  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2117605-03	<b>Client Sample Name:</b> JPL GW, MW-20-4, 6/2/2021 11:05:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/03/21 07:00	06/03/21	14:58	MGC	MS-V5	1	B110686	EPA 524.2

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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 06/23/2021 11:57
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows 1-7 detailing run parameters for each sample.

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Powell, OH 43065

**Reported:** 06/23/2021 11:57  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2117605-03	<b>Client Sample Name:</b> JPL GW, MW-20-4, 6/2/2021 11:05:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00012	mg/L	0.00020	0.000020	EPA-218.6	0.000023	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	65	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/03/21 13:00	06/03/21 13:36		SAV	IC-4	1	B110701	No Prep
2	EPA-200.8	06/14/21 23:10	06/15/21 11:05		KHS	PE-EL4	1	B111648	EPA 200.2
3	EPA-200.7	06/18/21 19:55	06/21/21 20:07		JRG	PE-OP4	1	B112104	EPA 200.2

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Powell, OH 43065

Reported: 06/23/2021 11:57
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2117605-04) and Client Sample Name (JPL GW, MW-20-3, 6/2/2021 11:40:00AM, Blaine Tech)

Main data table with columns: Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quads, Run #. Lists various organic compounds and their detection results.

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Reported: 06/23/2021 11:57  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117605-04	<b>Client Sample Name:</b> JPL GW, MW-20-3, 6/2/2021 11:40:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
<b>Styrene</b>	<b>0.32</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Tetrachloroethene</b>	<b>1.3</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.23</b>	<b>EPA-524.2</b>	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/23/2021 11:57  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117605-04	<b>Client Sample Name:</b> JPL GW, MW-20-3, 6/2/2021 11:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	109	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/03/21 07:00	06/03/21 15:22	MGC	MS-V5	1	B110686	EPA 524.2

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Powell, OH 43065

**Reported:** 06/23/2021 11:57  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2117605-04	<b>Client Sample Name:</b> JPL GW, MW-20-3, 6/2/2021 11:40:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/03/21 07:00	06/03/21 15:22		MGC	MS-V5	1	B110686	EPA 524.2

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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 06/23/2021 11:57
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with 9 columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with 10 columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows 1-7 detailing analysis parameters for each run.

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/23/2021 11:57  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

BCL Sample ID: 2117605-04		Client Sample Name: JPL GW, MW-20-3, 6/2/2021 11:40:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000045	mg/L	0.00020	0.000020	EPA-218.6	0.000023	J	1
Total Recoverable Arsenic	1.2	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	0.94	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	110	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/03/21 13:00	06/03/21 13:46		SAV	IC-4	1	B110701	No Prep
2	EPA-200.8	06/14/21 23:10	06/15/21 11:07		KHS	PE-EL4	1	B111648	EPA 200.2
3	EPA-200.7	06/18/21 19:55	06/21/21 22:45		JRG	PE-OP4	1	B112104	EPA 200.2

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Powell, OH 43065

**Reported:** 06/23/2021 11:57  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117605-05	<b>Client Sample Name:</b> JPL GW, DUP-8-2Q21, 6/2/2021 11:55:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 06/23/2021 11:57  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2117605-05 Client Sample Name: JPL GW, DUP-8-2Q21, 6/2/2021 11:55:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
<b>Styrene</b>	<b>0.34</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Tetrachloroethene</b>	<b>0.66</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.23</b>	<b>EPA-524.2</b>	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
<b>Carbon disulfide</b>	<b>0.78</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.48</b>	<b>EPA-524.2</b>	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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**Reported:** 06/23/2021 11:57  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117605-05	<b>Client Sample Name:</b> JPL GW, DUP-8-2Q21, 6/2/2021 11:55:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	111	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	105	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/03/21 07:00	06/03/21 15:46	MGC	MS-V5	1	B110686	EPA 524.2

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**Reported:** 06/23/2021 11:57  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2117605-05	<b>Client Sample Name:</b> JPL GW, DUP-8-2Q21, 6/2/2021 11:55:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/03/21 07:00	06/03/21	15:46	MGC	MS-V5	1	B110686	EPA 524.2

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**Reported:** 06/23/2021 11:57  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

BCL Sample ID: 2117605-05		Client Sample Name: JPL GW, DUP-8-2Q21, 6/2/2021 11:55:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	5.8	mg/L	0.10	0.014	EPA-200.7	0.056		1	
Total Recoverable Magnesium	5.7	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	49	mg/L	0.50	0.051	EPA-200.7	0.20		1	
Total Recoverable Potassium	1.7	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	78	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	9.9	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	81	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	44	mg/L	0.50	0.13	EPA-300.0	0.14		3	
Nitrate as N	0.52	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	14	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	8.97	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	270	mg/L	20	10	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/18/21 19:55	06/21/21 22:48		JRG	PE-OP4	1	B112104	EPA 200.2
2	SM-2320B	06/03/21 14:00	06/03/21 16:54		RML	MET-1	1	B109522	No Prep
3	EPA-300.0	06/02/21 23:00	06/03/21 09:13		ANK	IC2	1	B110708	No Prep
4	EPA-150.1	06/03/21 14:00	06/03/21 16:54		RML	MET-1	1	B109522	No Prep
5	EPA-160.1	06/04/21 12:00	06/04/21 12:00		CAD	MANUAL	2	B110834	No Prep
6	EPA-353.2	06/03/21 09:38	06/03/21 10:36		MC1	KONE-1	1	B111011	No Prep
7	EPA-314.0	06/10/21 01:00	06/10/21 06:42		ANK	IC6	1	B111288	No Prep

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**Reported:** 06/23/2021 11:57  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2117605-05	<b>Client Sample Name:</b> JPL GW, DUP-8-2Q21, 6/2/2021 11:55:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00014	mg/L	0.00020	0.000020	EPA-218.6	0.000023	J	1
Total Recoverable Arsenic	1.6	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	0.65	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	120	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/03/21 13:00	06/03/21	13:55	SAV	IC-4	1	B110701	No Prep
2	EPA-200.8	06/14/21 23:10	06/15/21	11:09	KHS	PE-EL4	1	B111648	EPA 200.2
3	EPA-200.7	06/18/21 19:55	06/21/21	22:48	JRG	PE-OP4	1	B112104	EPA 200.2

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Reported: 06/23/2021 11:57  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117605-06	<b>Client Sample Name:</b> JPL GW, MW-20-2, 6/2/2021 12:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
<b>Chloroform</b>	<b>0.37</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 06/23/2021 11:57  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2117605-06		Client Sample Name: JPL GW, MW-20-2, 6/2/2021 12:45:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
<b>Trichloroethene</b>	<b>0.21</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.19</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
<b>Carbon disulfide</b>	<b>0.65</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.48</b>	<b>EPA-524.2</b>	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc. - Powell  
3761 Attucks Drive  
Powell, OH 43065

Reported: 06/23/2021 11:57  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117605-06	<b>Client Sample Name:</b> JPL GW, MW-20-2, 6/2/2021 12:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	112	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/03/21 07:00	06/03/21 16:10	MGC	MS-V5	1	B110686	EPA 524.2

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**Reported:** 06/23/2021 11:57  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2117605-06	<b>Client Sample Name:</b> JPL GW, MW-20-2, 6/2/2021 12:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/03/21 07:00	06/03/21	16:10	MGC	MS-V5	1	B110686	EPA 524.2

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Powell, OH 43065

Reported: 06/23/2021 11:57
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with 9 columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with 10 columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows correspond to runs 1 through 7.

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**Reported:** 06/23/2021 11:57  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2117605-06	<b>Client Sample Name:</b> JPL GW, MW-20-2, 6/2/2021 12:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000087	mg/L	0.00020	0.000020	EPA-218.6	0.000023	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/03/21 13:00	06/03/21 14:05		SAV	IC-4	1	B110701	No Prep
2	EPA-200.8	06/18/21 23:00	06/19/21 18:35		ARD	PE-EL4	1	B112109	EPA 200.2
3	EPA-200.7	06/18/21 19:55	06/21/21 22:50		JRG	PE-OP4	1	B112104	EPA 200.2

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Reported: 06/23/2021 11:57  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2117605-07 Client Sample Name: JPL GW, EB-11-060221, 6/2/2021 1:00:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 06/23/2021 11:57  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

**BCL Sample ID:** 2117605-07      **Client Sample Name:** JPL GW, EB-11-060221, 6/2/2021 1:00:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 06/23/2021 11:57  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 2117605-07	<b>Client Sample Name:</b> JPL GW, EB-11-060221, 6/2/2021 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	5.0	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND	A40,V01,V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	109	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/03/21 07:00	06/03/21 16:34	MGC	MS-V5	1	B110686	EPA 524.2

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**Reported:** 06/23/2021 11:57  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 2117605-07	<b>Client Sample Name:</b> JPL GW, EB-11-060221, 6/2/2021 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/03/21 07:00	06/03/21 16:34		MGC	MS-V5	1	B110686	EPA 524.2

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Reported: 06/23/2021 11:57
Project: JPL- GW Monitoring Wells-CLP
Project Number: 2Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with 9 columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Total Recoverable Calcium, Magnesium, Sodium, Potassium, Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, and Perchlorate.

Table with 10 columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows 1-7 corresponding to the main analysis table.

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**Reported:** 06/23/2021 11:57  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 2117605-07	<b>Client Sample Name:</b> JPL GW, EB-11-060221, 6/2/2021 1:00:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00014	mg/L	0.00020	0.000020	EPA-218.6	0.000023	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/03/21 13:00	06/03/21	14:15	SAV	IC-4	1	B110701	No Prep
2	EPA-200.8	06/18/21 23:00	06/19/21	18:52	ARD	PE-EL4	1	B112109	EPA 200.2
3	EPA-200.7	06/18/21 19:55	06/21/21	22:52	JRG	PE-OP4	1	B112104	EPA 200.2

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Tidewater Inc. - Powell  
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Powell, OH 43065

**Reported:** 06/23/2021 11:57  
Project: JPL- GW Monitoring Wells-CLP  
Project Number: 2Q21  
Project Manager: David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110686</b>						
Benzene	B110686-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B110686-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B110686-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B110686-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B110686-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B110686-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B110686-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B110686-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B110686-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B110686-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B110686-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B110686-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B110686-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B110686-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B110686-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B110686-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B110686-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B110686-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B110686-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B110686-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B110686-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B110686-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B110686-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B110686-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B110686-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B110686-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B110686-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B110686-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B110686-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B110686-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B110686-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B110686-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B110686-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B110686-BLK1	ND	ug/L	0.50	0.14	

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Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110686</b>						
trans-1,3-Dichloropropene	B110686-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B110686-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B110686-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B110686-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B110686-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B110686-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B110686-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B110686-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B110686-BLK1	ND	ug/L	0.50	0.12	
Styrene	B110686-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B110686-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2-Tetrachloroethane	B110686-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B110686-BLK1	ND	ug/L	0.50	0.23	
Toluene	B110686-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B110686-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B110686-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B110686-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B110686-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B110686-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B110686-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B110686-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B110686-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B110686-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B110686-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B110686-BLK1	ND	ug/L	0.50	0.18	
Acetone	B110686-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B110686-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B110686-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B110686-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B110686-BLK1	ND	ug/L	2.0	2.0	
Carbon disulfide	B110686-BLK1	ND	ug/L	0.50	0.48	
trans-1,4-Dichloro-2-butene	B110686-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B110686-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B110686-BLK1	ND	ug/L	4.0	1.3	

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**Reported:** 06/23/2021 11:57  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110686</b>						
Ethyl t-butyl ether	B110686-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B110686-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B110686-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B110686-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B110686-BLK1	ND	ug/L	5.0	3.3	
Methyl iodide	B110686-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B110686-BLK1	ND	ug/L	5.0	2.4	
Methyl methacrylate	B110686-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B110686-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B110686-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B110686-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B110686-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B110686-BLK1	ND	ug/L	0.50	0.13	
<b>1,2-Dichloroethane-d4 (Surrogate)</b>	<b>B110686-BLK1</b>	<b>102</b>	<b>%</b>	<b>75 - 125 (LCL - UCL)</b>		
<b>Toluene-d8 (Surrogate)</b>	<b>B110686-BLK1</b>	<b>99.3</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		
<b>4-Bromofluorobenzene (Surrogate)</b>	<b>B110686-BLK1</b>	<b>104</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		

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**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
<b>QC Batch ID: B110686</b>										
Benzene	B110686-BS1	LCS	24.600	25.000	ug/L	98.4		70 - 130		
Bromodichloromethane	B110686-BS1	LCS	27.840	25.000	ug/L	111		70 - 130		
Chlorobenzene	B110686-BS1	LCS	23.690	25.000	ug/L	94.8		70 - 130		
Chloroethane	B110686-BS1	LCS	25.990	25.000	ug/L	104		70 - 130		
1,4-Dichlorobenzene	B110686-BS1	LCS	23.790	25.000	ug/L	95.2		70 - 130		
1,1-Dichloroethane	B110686-BS1	LCS	26.220	25.000	ug/L	105		70 - 130		
1,1-Dichloroethene	B110686-BS1	LCS	27.290	25.000	ug/L	109		70 - 130		
Toluene	B110686-BS1	LCS	23.460	25.000	ug/L	93.8		70 - 130		
Trichloroethene	B110686-BS1	LCS	24.950	25.000	ug/L	99.8		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B110686-BS1	LCS	11.710	10.000	ug/L	117		75 - 125		
Toluene-d8 (Surrogate)	B110686-BS1	LCS	9.7000	10.000	ug/L	97.0		80 - 120		
4-Bromofluorobenzene (Surrogate)	B110686-BS1	LCS	10.610	10.000	ug/L	106		80 - 120		

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Project Number: 2Q21  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: B110686</b>		Used client sample: N								
Benzene	MS	2117371-02	ND	25.500	25.000	ug/L		102		70 - 130
	MSD	2117371-02	ND	24.020	25.000	ug/L	6.0	96.1	20	70 - 130
Bromodichloromethane	MS	2117371-02	ND	28.220	25.000	ug/L		113		70 - 130
	MSD	2117371-02	ND	27.800	25.000	ug/L	1.5	111	20	70 - 130
Chlorobenzene	MS	2117371-02	ND	24.330	25.000	ug/L		97.3		70 - 130
	MSD	2117371-02	ND	23.660	25.000	ug/L	2.8	94.6	20	70 - 130
Chloroethane	MS	2117371-02	ND	26.410	25.000	ug/L		106		70 - 130
	MSD	2117371-02	ND	24.030	25.000	ug/L	9.4	96.1	20	70 - 130
1,4-Dichlorobenzene	MS	2117371-02	ND	24.290	25.000	ug/L		97.2		70 - 130
	MSD	2117371-02	ND	23.540	25.000	ug/L	3.1	94.2	20	70 - 130
1,1-Dichloroethane	MS	2117371-02	ND	27.130	25.000	ug/L		109		70 - 130
	MSD	2117371-02	ND	25.700	25.000	ug/L	5.4	103	20	70 - 130
1,1-Dichloroethene	MS	2117371-02	ND	28.430	25.000	ug/L		114		70 - 130
	MSD	2117371-02	ND	26.680	25.000	ug/L	6.4	107	20	70 - 130
Toluene	MS	2117371-02	ND	23.990	25.000	ug/L		96.0		70 - 130
	MSD	2117371-02	ND	23.310	25.000	ug/L	2.9	93.2	20	70 - 130
Trichloroethene	MS	2117371-02	ND	25.430	25.000	ug/L		102		70 - 130
	MSD	2117371-02	ND	24.500	25.000	ug/L	3.7	98.0	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	2117371-02	ND	11.720	10.000	ug/L		117		75 - 125
	MSD	2117371-02	ND	11.400	10.000	ug/L	2.8	114		75 - 125
Toluene-d8 (Surrogate)	MS	2117371-02	ND	9.8400	10.000	ug/L		98.4		80 - 120
	MSD	2117371-02	ND	9.8900	10.000	ug/L	0.5	98.9		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	2117371-02	ND	10.440	10.000	ug/L		104		80 - 120
	MSD	2117371-02	ND	10.630	10.000	ug/L	1.8	106		80 - 120

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**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2) TICs

### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110686</b>						
Chloroacetonitrile	B110686-BLK1	0	ug/L			
1-Chlorobutane	B110686-BLK1	0	ug/L			
1,1-Dichloropropanone	B110686-BLK1	0	ug/L			
Methyl acrylate	B110686-BLK1	0	ug/L			
Nitrobenzene	B110686-BLK1	0	ug/L			
2-Nitropropane	B110686-BLK1	0	ug/L			

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**Project:** JPL- GW Monitoring Wells-CLP  
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**Project Manager:** David Conner

### Water Analysis (General Chemistry)

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B109521</b>						
Bicarbonate	B109521-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B109521-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B109521-BLK1	ND	mg/L	4.1	4.1	
<b>QC Batch ID: B109522</b>						
Bicarbonate	B109522-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B109522-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B109522-BLK1	ND	mg/L	4.1	4.1	
<b>QC Batch ID: B110708</b>						
Chloride	B110708-BLK1	0.13800	mg/L	0.50	0.13	J
Nitrate as N	B110708-BLK1	ND	mg/L	0.10	0.024	
Sulfate	B110708-BLK1	ND	mg/L	1.0	0.14	
<b>QC Batch ID: B110834</b>						
Total Dissolved Solids @ 180 C	B110834-BLK1	ND	mg/L	6.7	3.3	
<b>QC Batch ID: B111011</b>						
Nitrite as N	B111011-BLK1	ND	mg/L	0.050	0.010	
<b>QC Batch ID: B111288</b>						
Perchlorate	B111288-BLK1	ND	ug/L	4.0	0.81	
<b>QC Batch ID: B112104</b>						
Total Recoverable Calcium	B112104-BLK1	0.056493	mg/L	0.10	0.014	J
Total Recoverable Magnesium	B112104-BLK1	ND	mg/L	0.050	0.019	
Total Recoverable Sodium	B112104-BLK1	0.20002	mg/L	0.50	0.051	J
Total Recoverable Potassium	B112104-BLK1	ND	mg/L	1.0	0.10	

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**Project:** JPL- GW Monitoring Wells-CLP  
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**Project Manager:** David Conner

### Water Analysis (General Chemistry)

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
<b>QC Batch ID: B109521</b>										
Total Alkalinity as CaCO3	B109521-BS3	LCS	100.74	100.00	mg/L	101		90 - 110		
pH	B109521-BS2	LCS	7.0500	7.0000	pH Units	101		95 - 105		
<b>QC Batch ID: B109522</b>										
Total Alkalinity as CaCO3	B109522-BS3	LCS	101.04	100.00	mg/L	101		90 - 110		
pH	B109522-BS2	LCS	7.0500	7.0000	pH Units	101		95 - 105		
<b>QC Batch ID: B110708</b>										
Chloride	B110708-BS1	LCS	50.876	50.000	mg/L	102		90 - 110		
Nitrate as N	B110708-BS1	LCS	5.1160	5.0000	mg/L	102		90 - 110		
Sulfate	B110708-BS1	LCS	101.49	100.00	mg/L	101		90 - 110		
<b>QC Batch ID: B110834</b>										
Total Dissolved Solids @ 180 C	B110834-BS1	LCS	580.00	586.00	mg/L	99.0		90 - 110		
	B110834-BSD1	LCSD	590.00	586.00	mg/L	101	1.7	90 - 110	200	
<b>QC Batch ID: B111011</b>										
Nitrite as N	B111011-BS1	LCS	0.49464	0.50000	mg/L	98.9		90 - 110		
<b>QC Batch ID: B111288</b>										
Perchlorate	B111288-BS1	LCS	9.2118	10.000	ug/L	92.1		85 - 115		
<b>QC Batch ID: B112104</b>										
Total Recoverable Calcium	B112104-BS1	LCS	8.8018	10.000	mg/L	88.0		85 - 115		
Total Recoverable Magnesium	B112104-BS1	LCS	8.5061	10.000	mg/L	85.1		85 - 115		
Total Recoverable Sodium	B112104-BS1	LCS	9.6331	10.000	mg/L	96.3		85 - 115		
Total Recoverable Potassium	B112104-BS1	LCS	8.7768	10.000	mg/L	87.8		85 - 115		

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Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes QC Batch IDs B109521, B109522, B110708, B110834, B111011, B111288, and B112104.

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Powell, OH 43065

**Reported:** 06/23/2021 11:57  
**Project:** JPL- GW Monitoring Wells-CLP  
**Project Number:** 2Q21  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
<b>QC Batch ID: B112104</b>		Used client sample: Y - Description: MW-20-5, 06/02/2021 10:30									
Total Recoverable Magnesium	DUP	2117605-02	2.3939	2.6004		mg/L	8.3		20		
	MS	2117605-02	2.3939	10.918	10.000	mg/L		85.2		75 - 125	
	MSD	2117605-02	2.3939	11.116	10.000	mg/L	1.8	87.2	20	75 - 125	
Total Recoverable Sodium	DUP	<b>2117605-02</b>	<b>52.888</b>	<b>56.929</b>		mg/L	<b>7.4</b>		<b>20</b>		
	MS	<b>2117605-02</b>	<b>52.888</b>	<b>60.236</b>	<b>10.000</b>	mg/L		<b>73.5</b>		<b>75 - 125</b>	<b>A03</b>
	MSD	<b>2117605-02</b>	<b>52.888</b>	<b>58.574</b>	<b>10.000</b>	mg/L	<b>2.8</b>	<b>56.9</b>	<b>20</b>	<b>75 - 125</b>	<b>A03</b>
Total Recoverable Potassium	DUP	2117605-02	1.4398	1.4513		mg/L	0.8		20		
	MS	2117605-02	1.4398	10.233	10.000	mg/L		87.9		75 - 125	
	MSD	2117605-02	1.4398	10.296	10.000	mg/L	0.6	88.6	20	75 - 125	

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### Metals Analysis

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: B110701</b>						
Hexavalent Chromium	B110701-BLK1	0.000023000	mg/L	0.00020	0.000020	J
<b>QC Batch ID: B111648</b>						
Total Recoverable Arsenic	B111648-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B111648-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B111648-BLK1	ND	ug/L	1.0	0.10	
<b>QC Batch ID: B112104</b>						
Total Recoverable Iron	B112104-BLK1	ND	ug/L	50	30	
<b>QC Batch ID: B112109</b>						
Total Recoverable Arsenic	B112109-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B112109-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B112109-BLK1	ND	ug/L	1.0	0.10	

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**Project Manager:** David Conner

### Metals Analysis

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: B110701</b>										
Hexavalent Chromium	B110701-BS1	LCS	0.019937	0.020000	mg/L	99.7		90 - 110		
<b>QC Batch ID: B111648</b>										
Total Recoverable Arsenic	B111648-BS1	LCS	107.51	100.00	ug/L	108		85 - 115		
Total Recoverable Chromium	B111648-BS1	LCS	42.676	40.000	ug/L	107		85 - 115		
Total Recoverable Lead	B111648-BS1	LCS	107.57	100.00	ug/L	108		85 - 115		
<b>QC Batch ID: B112104</b>										
Total Recoverable Iron	B112104-BS1	LCS	876.79	1000.0	ug/L	87.7		85 - 115		
<b>QC Batch ID: B112109</b>										
Total Recoverable Arsenic	B112109-BS1	LCS	101.13	100.00	ug/L	101		85 - 115		
Total Recoverable Chromium	B112109-BS1	LCS	38.901	40.000	ug/L	97.3		85 - 115		
Total Recoverable Lead	B112109-BS1	LCS	100.61	100.00	ug/L	101		85 - 115		

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Metals Analysis

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Control Limits Percent Recovery, Lab Quals. Includes QC Batch IDs B110701, B111648, B112104, and B112109.

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**Notes And Definitions**

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A02 The difference between duplicate readings is less than the quantitation limit.
- A03 The sample concentration was more than 4 times the spike level.
- A07 Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
- A40 Initial calibration linearity criteria not met.
- S05 The sample holding time was exceeded.
- V01 The Initial Calibration Verification (ICV) recovery is not within established control limits.
- V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.

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