

ATTACHMENT 3: LABORATORY ANALYTICAL REPORTS

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



Date of Report: 08/17/2021

David Conner

Tidewater Inc. - Powell

3761 Attucks Drive

Powell, OH 43065

Client Project: 3Q21

BCL Project: JPL- GW Monitoring Wells-CLP

BCL Work Order: 2122950

Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 7/19/2021. 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

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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Chain of Custody Form

Report to: Tidewater, Inc.
 Client: David Connor
 Attn: David Connor
 Street Address: 3761 Allucks Drive
 City: Powell State: OH Zip: 43065
 Phone: 626 | 288 - 5715 Fax: 614 | 792 - 2897
 Email Address: david.connor@tideh2o.net
 Submission #: 21-22450

Project Description: JPL-GW Monitoring
 Project Code: 3Q21
 Sampler (s): Blaine Tech
 L. Henderson

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 = 10

Sample #	Sample Description	Date	Time	Matrix*
-1	MW-20-5	7/19/11	1005	L
-2	MW-20-4	7/19/11	0930	L
-3	MW-20-3	7/19/11	1100	L
-4	MW-20-2	7/19/11	1145	L
-5	TB-1-071921	7/19/11	1200	L
-6	ER-1-071921	7/19/11	1315	L
-7	MW-19-5	7/19/11	1320	L
-8	MW-19-4	7/19/11	1345	L
-9	DUP-1-3821	7/19/11	1400	L
-10	MW-19-3	7/19/11	1445	L
-11	MW-19-2	7/19/11	1510	L

Analysis Requested
 Hexavalent Cr6 >18.6 (mg/L)
 Chloride Cl, NO3, NO2, SO4
 Orthophosphate 365.1
 Perchlorate
 TRM-C
 VOCs EPA 524.2
 Matrix: L = Liquid M = Miscellaneous O = Other

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: 7/19/11 Time: 1545
 2. Relinquished By: [Signature] Date: 7/19/11 Time: 1805
 3. Relinquished By: [Signature] Date: 7/19/11 Time: 1805

Notes: MS/MSD
 CHK BY: [Signature] DISTRIBUTION
 SUB OUT []
 SHORT HOLDING TIME
 NO2 NO3 OP SS
 DO Cl6 BOD MBAS COT

Page 1 of 2



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

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Laboratories, Inc.

Environmental Testing Laboratory Since 1949

Chain of Custody Form

Page 2 of 2

***Required Fields**

Report To: **Tidelwater, Inc.**
 Client: **Tidelwater, Inc.**
 Attn: **David Conner**
 Street Address: **3761 Altlucks Drive**
 City: **Powell** State: **OH** Zip: **43065**
 Phone: **628 1298 - 5715** Fax: **614 792 - 2897**
 Email Address: **david.conner@nicoh2o.net**
 Submission #: **21-22950**

Project Description: **JPL-GW Monitoring**
 Project Code: **3Q21**
 Sampler(s): **Bisimo Tech**
L. Henderson

Sample #	Sample Description	Date	Time	Matrix*
-12	MU-19-1	7/19/12	1530	L
-13	SB-1-071921	7/19/12	1520	L

Analysis Requested

VOCs EPA 524.2	X
TRM: C	X
Perchlorate	X
Hexavalent Cr6 -218.6 (mg/L)	X
Cl, NO3, NO2, SO4	
Orthophosphate 365.1	

Billing
 Client: **Tidelwater**
 Attn: **David Conner**
 Address: **3761 Altlucks Drive**
 City: **Powell** State: **OH** Zip: **43065**
 Are there any fees with holding times?
 Yes No
 *Standard Turnaround = 10

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 OC)

Global ID: _____

1. Relinquished By: _____ Date: 7/19/12 Time: 1545
2. Relinquished By: _____ Date: 7/19/12 Time: 1805
3. Relinquished By: _____ Date: 7/19/12 Time: 1805

Cost Center:
1. Relinquished By: _____ Date: _____ Time: _____
2. Relinquished By: _____ Date: _____ Time: _____
3. Relinquished By: _____ Date: _____ Time: _____

MBU Site:
CVX RCRA:
Geotracker 5 File (CA Default):
Geotracker 2 File:
Other (Specify): _____

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 2

Submission #: 21-22950

SHIPPING INFORMATION Fed Ex [] UPS [] GSO / GLS [] Hand Delivery [] BC Lab Field Service [x] Other [] (Specify) _____

SHIPPING CONTAINER Ice Chest [x] None [] Box [] Other [] (Specify) _____

FREE LIQUID YES [] NO [] W / S

Refrigerant: Ice [x] Blue Ice [] None [] Other [] Comments: _____

Custody Seals Ice Chest [] Containers [] None [x] Comments: _____

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

COC Received [x] YES [] NO

Emissivity: 0.95 Container: PE Thermometer ID: 208 Temperature: (A) 0.9 °C / (C) 0.8 °C

Date/Time 7/19/21 1805

Analyst Init PRE

Table with columns for Sample Containers and Sample Numbers (1-10). Rows include various sample types like QT PE UNPRES, INORGANIC CHEMICAL METALS, etc., with handwritten notations like 'EF', 'D', 'GH', 'A-C', 'A-F', 'A-C', 'A'.

Comments:

Sample Numbering Completed By: PRE Date/Time: 7/19/21 1805

A = Actual / C = Corrected

Rev 22 04/13/21

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 Of 2

Submission #: 2122950

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: 0.95 Container: PC Thermometer ID: 208

Temperature: (A) 1.1 °C / (C) 1.0 °C

Date/Time: 7/19/21 1805

Analyst Init: PRE

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES	DC	DC	CF							
2oz Cr ⁶			D							
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz			G							
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-C	A-C	A-C							
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8276C										
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: 7/19/21 1805

A = Actual / C = Corrected

Rev 22 04/13/21
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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2122950-01	COC Number: --- Project Number: JPL- GW Monitoring Wells Sampling Location: --- Sampling Point: MW-20-5 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/19/2021 18:05 Sampling Date: 07/19/2021 10:05 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-20-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

2122950-02	COC Number: --- Project Number: JPL- GW Monitoring Wells Sampling Location: --- Sampling Point: MW-20-4 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/19/2021 18:05 Sampling Date: 07/19/2021 09:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-20-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

2122950-03	COC Number: --- Project Number: JPL- GW Monitoring Wells Sampling Location: --- Sampling Point: MW-20-3 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/19/2021 18:05 Sampling Date: 07/19/2021 11:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-20-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2122950-04	COC Number: --- Project Number: JPL- GW Monitoring Wells Sampling Location: --- Sampling Point: MW-20-2 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/19/2021 18:05 Sampling Date: 07/19/2021 11:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-20-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

2122950-05	COC Number: --- Project Number: JPL- GW Monitoring Wells Sampling Location: --- Sampling Point: TB-1-071921 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/19/2021 18:05 Sampling Date: 07/19/2021 08:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-1-071921 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

2122950-06	COC Number: --- Project Number: JPL- GW Monitoring Wells Sampling Location: --- Sampling Point: EB-1-071921 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/19/2021 18:05 Sampling Date: 07/19/2021 15:15 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-1-071921 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2122950-07	COC Number: --- Project Number: JPL- GW Monitoring Wells Sampling Location: --- Sampling Point: MW-19-5 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/19/2021 18:05 Sampling Date: 07/19/2021 13:20 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-19-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

2122950-08	COC Number: --- Project Number: JPL- GW Monitoring Wells Sampling Location: --- Sampling Point: MW-19-4 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/19/2021 18:05 Sampling Date: 07/19/2021 13:45 Sample Depth: --- Lab Matrix: Water Sample Type: 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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2122950-09	COC Number: --- Project Number: JPL- GW Monitoring Wells Sampling Location: --- Sampling Point: DUP-1-3Q21 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/19/2021 18:05 Sampling Date: 07/19/2021 14:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): DUP-1-3Q21 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2122950-10	COC Number: --- Project Number: JPL- GW Monitoring Wells Sampling Location: --- Sampling Point: MW-19-3 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/19/2021 18:05 Sampling Date: 07/19/2021 14:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-19-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

2122950-11	COC Number: --- Project Number: JPL- GW Monitoring Wells Sampling Location: --- Sampling Point: MW-19-2 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/19/2021 18:05 Sampling Date: 07/19/2021 15:10 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-19-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

2122950-12	COC Number: --- Project Number: JPL- GW Monitoring Wells Sampling Location: --- Sampling Point: MW-19-1 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/19/2021 18:05 Sampling Date: 07/19/2021 15:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-19-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2122950-13	COC Number: ---	Receive Date: 07/19/2021 18:05
	Project Number: JPL- GW Monitoring Wells	Sampling Date: 07/19/2021 15:20
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: SB-1-071921	Lab Matrix: Water
	Sampled By: Blaine Tech - L. Henderson of BTST	Sample Type: Water
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): SB-1-071921
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

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

Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2122950-01	Client Sample Name:	JPL- GW Monitoring Wells, MW-20-5, 7/19/2021 10:05:00AM, 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		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: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2122950-01	Client Sample Name: JPL- GW Monitoring Wells, MW-20-5, 7/19/2021 10:05:00AM, 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	0.18	ug/L	0.50	0.12	EPA-524.2	ND	J	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	0.48	ug/L	0.50	0.48	EPA-524.2	ND	J	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: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2122950-01	Client Sample Name: JPL- GW Monitoring Wells, MW-20-5, 7/19/2021 10:05:00AM, 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	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)	99.9	%	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	07/20/21 06:00	07/20/21 10:34	MGC	MS-V5	1	B114637	EPA 524.2

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

Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2122950-01	Client Sample Name: JPL- GW Monitoring Wells, MW-20-5, 7/19/2021 10:05:00AM, 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	07/20/21 06:00	07/20/21 10:34		MGC	MS-V5	1	B114637	EPA 524.2

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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2122950-01	Client Sample Name: JPL- GW Monitoring Wells, MW-20-5, 7/19/2021 10:05:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/11/21 16:00	08/11/21 18:23	KB1	IC6	1	B116897	No Prep

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Powell, OH 43065

Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2122950-01	Client Sample Name: JPL- GW Monitoring Wells, MW-20-5, 7/19/2021 10:05:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00013	mg/L	0.00020	0.000020	EPA-218.6	0.000025	J	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	07/21/21 11:00	07/21/21	14:26	ANK	IC-4	1	B114845	No Prep
2	EPA-200.8	07/26/21 22:15	07/28/21	02:03	ARD	PE-EL4	1	B115399	EPA 200.2

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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2122950-02	Client Sample Name:	JPL- GW Monitoring Wells, MW-20-4, 7/19/2021 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		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: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2122950-02		Client Sample Name: JPL- GW Monitoring Wells, MW-20-4, 7/19/2021 9:30:00AM, 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	0.54	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: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2122950-02	Client Sample Name: JPL- GW Monitoring Wells, MW-20-4, 7/19/2021 9:30:00AM, 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	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)	99.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.0	%	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	07/20/21 06:00	07/20/21 10:58	MGC	MS-V5	1	B114637	EPA 524.2

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

Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2122950-02	Client Sample Name: JPL- GW Monitoring Wells, MW-20-4, 7/19/2021 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	07/20/21 06:00	07/20/21 10:58		MGC	MS-V5	1	B114637	EPA 524.2

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Powell, OH 43065

Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2122950-02	Client Sample Name: JPL- GW Monitoring Wells, MW-20-4, 7/19/2021 9:30:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/11/21 16:00	08/11/21 18:38	KB1	IC6	1	B116897	No Prep

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Powell, OH 43065

Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2122950-02	Client Sample Name: JPL- GW Monitoring Wells, MW-20-4, 7/19/2021 9:30:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00012	mg/L	0.00020	0.000020	EPA-218.6	0.000025	J	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	07/21/21 11:00	07/21/21	14:35	ANK	IC-4	1	B114845	No Prep
2	EPA-200.8	07/26/21 22:15	07/28/21	02:05	ARD	PE-EL4	1	B115399	EPA 200.2

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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2122950-03	Client Sample Name:	JPL- GW Monitoring Wells, MW-20-3, 7/19/2021 11:00:00AM, 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		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: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2122950-03	Client Sample Name: JPL- GW Monitoring Wells, MW-20-3, 7/19/2021 11:00:00AM, 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	0.42	ug/L	0.50	0.12	EPA-524.2	ND	J	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	0.94	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: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2122950-03	Client Sample Name: JPL- GW Monitoring Wells, MW-20-3, 7/19/2021 11:00:00AM, 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	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)	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	07/20/21 06:00	07/20/21 07:44	MGC	MS-V5	1	B114637	EPA 524.2

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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2122950-03	Client Sample Name: JPL- GW Monitoring Wells, MW-20-3, 7/19/2021 11:00:00AM, 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	07/20/21 06:00	07/20/21	07:44	MGC	MS-V5	1	B114637	EPA 524.2

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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2122950-03	Client Sample Name: JPL- GW Monitoring Wells, MW-20-3, 7/19/2021 11:00:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/11/21 16:00	08/11/21 18:53	KB1	IC6	1	B116897	No Prep

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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2122950-03	Client Sample Name: JPL- GW Monitoring Wells, MW-20-3, 7/19/2021 11:00:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00013	mg/L	0.00020	0.000020	EPA-218.6	0.000025	J	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	07/21/21 11:00	07/21/21 13:47		ANK	IC-4	1	B114845	No Prep
2	EPA-200.8	07/26/21 22:15	07/28/21 01:37		ARD	PE-EL4	1	B115399	EPA 200.2

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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2122950-04	Client Sample Name:	JPL- GW Monitoring Wells, MW-20-2, 7/19/2021 11:45:00AM, 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		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	0.43	ug/L	0.50	0.14	EPA-524.2	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: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2122950-04	Client Sample Name:	JPL- GW Monitoring Wells, MW-20-2, 7/19/2021 11:45:00AM, 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	0.23	ug/L	0.50	0.23	EPA-524.2	ND	J	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	0.22	ug/L	0.50	0.19	EPA-524.2	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		1	

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

Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2122950-04	Client Sample Name: JPL- GW Monitoring Wells, MW-20-2, 7/19/2021 11:45:00AM, 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	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)	100	%	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	07/20/21 06:00	07/20/21 11:22	MGC	MS-V5	1	B114637	EPA 524.2

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Powell, OH 43065

Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2122950-04	Client Sample Name: JPL- GW Monitoring Wells, MW-20-2, 7/19/2021 11:45:00AM, 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	07/20/21 06:00	07/20/21 11:22		MGC	MS-V5	1	B114637	EPA 524.2

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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2122950-04	Client Sample Name: JPL- GW Monitoring Wells, MW-20-2, 7/19/2021 11:45:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/11/21 16:00	08/11/21 20:56	KB1	IC6	1	B116897	No Prep

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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2122950-04	Client Sample Name: JPL- GW Monitoring Wells, MW-20-2, 7/19/2021 11:45:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000058	mg/L	0.00020	0.000020	EPA-218.6	0.000025	J	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC	
		Date	Time	Date/Time					Batch ID	Prep Method
1	EPA-218.6	07/21/21	11:00	07/21/21	14:45	ANK	IC-4	1	B114845	No Prep
2	EPA-200.8	07/26/21	22:15	07/28/21	02:06	ARD	PE-EL4	1	B115399	EPA 200.2

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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2122950-05	Client Sample Name:	JPL- GW Monitoring Wells, TB-1-071921, 7/19/2021 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		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: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2122950-05	Client Sample Name: JPL- GW Monitoring Wells, TB-1-071921, 7/19/2021 8:00:00AM, 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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3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2122950-05	Client Sample Name: JPL- GW Monitoring Wells, TB-1-071921, 7/19/2021 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	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)	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	07/20/21 06:00	07/20/21 10:09	MGC	MS-V5	1	B114637	EPA 524.2

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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2122950-05	Client Sample Name: JPL- GW Monitoring Wells, TB-1-071921, 7/19/2021 8:00:00AM, 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	07/20/21 06:00	07/20/21	10:09	MGC	MS-V5	1	B114637	EPA 524.2

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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2122950-06	Client Sample Name:	JPL- GW Monitoring Wells, EB-1-071921, 7/19/2021 3:15:00PM, 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		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: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2122950-06) and Client Sample Name (JPL- GW Monitoring Wells, EB-1-071921, 7/19/2021 3:15:00PM, 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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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2122950-06	Client Sample Name: JPL- GW Monitoring Wells, EB-1-071921, 7/19/2021 3:15:00PM, 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	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)	95.3	%	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	07/20/21 06:00	07/20/21 11:47	MGC	MS-V5	1	B114637	EPA 524.2

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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2122950-06	Client Sample Name: JPL- GW Monitoring Wells, EB-1-071921, 7/19/2021 3:15:00PM, 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	07/20/21 06:00	07/20/21	11:47	MGC	MS-V5	1	B114637	EPA 524.2

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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2122950-06	Client Sample Name: JPL- GW Monitoring Wells, EB-1-071921, 7/19/2021 3:15:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/11/21 16:00	08/11/21 21:11	KB1	IC6	1	B116897	No Prep

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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2122950-06	Client Sample Name: JPL- GW Monitoring Wells, EB-1-071921, 7/19/2021 3:15:00PM, Blaine Tech - L. Henderson
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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	0.000025	J	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	07/21/21 11:00	07/21/21	14:55	ANK	IC-4	1	B114845	No Prep
2	EPA-200.8	07/26/21 22:15	07/28/21	02:08	ARD	PE-EL4	1	B115399	EPA 200.2

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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2122950-07	Client Sample Name: JPL- GW Monitoring Wells, MW-19-5, 7/19/2021 1:20:00PM, 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		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	3.2	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: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2122950-07	Client Sample Name: JPL- GW Monitoring Wells, MW-19-5, 7/19/2021 1:20:00PM, 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	1.0	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	0.34	ug/L	0.50	0.19	EPA-524.2	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		1

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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2122950-07	Client Sample Name: JPL- GW Monitoring Wells, MW-19-5, 7/19/2021 1:20:00PM, 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	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)	99.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.2	%	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	07/20/21 06:00	07/20/21 12:11	MGC	MS-V5	1	B114637	EPA 524.2

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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2122950-07	Client Sample Name: JPL- GW Monitoring Wells, MW-19-5, 7/19/2021 1:20:00PM, 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	07/20/21 06:00	07/20/21 12:11		MGC	MS-V5	1	B114637	EPA 524.2

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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2122950-07	Client Sample Name: JPL- GW Monitoring Wells, MW-19-5, 7/19/2021 1:20:00PM, Blaine Tech - L. Henderson
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	3.0	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/11/21 16:00	08/11/21 21:42	KB1	IC6	1	B116897	No Prep

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Powell, OH 43065

Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2122950-08	Client Sample Name: JPL- GW Monitoring Wells, MW-19-4, 7/19/2021 1:45:00PM, 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		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	2.4	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: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2122950-08	Client Sample Name: JPL- GW Monitoring Wells, MW-19-4, 7/19/2021 1:45:00PM, 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	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)	97.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.2	%	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	07/20/21 06:00	07/20/21 12:36	MGC	MS-V5	1	B114637	EPA 524.2

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Powell, OH 43065

Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2122950-08	Client Sample Name: JPL- GW Monitoring Wells, MW-19-4, 7/19/2021 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	07/20/21 06:00	07/20/21	12:36	MGC	MS-V5	1	B114637	EPA 524.2

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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2122950-08	Client Sample Name: JPL- GW Monitoring Wells, MW-19-4, 7/19/2021 1:45:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	3.1	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/11/21 16:00	08/11/21 22:13	KB1	IC6	1	B116897	No Prep

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Tidewater Inc. - Powell
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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2122950-09	Client Sample Name:	JPL- GW Monitoring Wells, DUP-1-3Q21, 7/19/2021 2:00:00PM, 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		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	2.7	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: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2122950-09	Client Sample Name: JPL- GW Monitoring Wells, DUP-1-3Q21, 7/19/2021 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	0.76	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	0.34	ug/L	0.50	0.19	EPA-524.2	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		1

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Powell, OH 43065

Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2122950-09	Client Sample Name: JPL- GW Monitoring Wells, DUP-1-3Q21, 7/19/2021 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	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)	98.6	%	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	07/20/21 06:00	07/20/21 13:00	MGC	MS-V5	1	B114637	EPA 524.2

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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2122950-09	Client Sample Name: JPL- GW Monitoring Wells, DUP-1-3Q21, 7/19/2021 2:00:00PM, 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	07/20/21 06:00	07/20/21 13:00		MGC	MS-V5	1	B114637	EPA 524.2

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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2122950-09	Client Sample Name: JPL- GW Monitoring Wells, DUP-1-3Q21, 7/19/2021 2:00:00PM, Blaine Tech - L. Henderson
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	3.1	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/11/21 16:00	08/11/21 22:28	KB1	IC6	1	B116897	No Prep

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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2122950-10	Client Sample Name: JPL- GW Monitoring Wells, MW-19-3, 7/19/2021 2:45:00PM, 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		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	1.9	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: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2122950-10	Client Sample Name: JPL- GW Monitoring Wells, MW-19-3, 7/19/2021 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	1.1	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	0.43	ug/L	0.50	0.19	EPA-524.2	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		1

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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2122950-10	Client Sample Name: JPL- GW Monitoring Wells, MW-19-3, 7/19/2021 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	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)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.2	%	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	07/20/21 06:00	07/20/21 13:24	MGC	MS-V5	1	B114637	EPA 524.2

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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2122950-10	Client Sample Name: JPL- GW Monitoring Wells, MW-19-3, 7/19/2021 2:45:00PM, 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	07/20/21 06:00	07/20/21	13:24	MGC	MS-V5	1	B114637	EPA 524.2

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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2122950-10	Client Sample Name: JPL- GW Monitoring Wells, MW-19-3, 7/19/2021 2:45:00PM, Blaine Tech - L. Henderson
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	4.0	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/11/21 16:00	08/11/21 23:30	KB1	IC6	1	B116897	No Prep

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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	Client Sample Name:							
2122950-11	JPL- GW Monitoring Wells, MW-19-2, 7/19/2021 3:10:00PM, 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		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	1.2	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: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2122950-11	Client Sample Name: JPL- GW Monitoring Wells, MW-19-2, 7/19/2021 3:10:00PM, 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	0.97	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	0.61	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: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2122950-11	Client Sample Name: JPL- GW Monitoring Wells, MW-19-2, 7/19/2021 3:10:00PM, 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	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)	96.5	%	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	07/20/21 06:00	07/20/21 13:49	MGC	MS-V5	1	B114637	EPA 524.2

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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2122950-11	Client Sample Name: JPL- GW Monitoring Wells, MW-19-2, 7/19/2021 3:10:00PM, 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	07/20/21 06:00	07/20/21	13:49	MGC	MS-V5	1	B114637	EPA 524.2

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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2122950-11	Client Sample Name: JPL- GW Monitoring Wells, MW-19-2, 7/19/2021 3:10:00PM, Blaine Tech - L. Henderson
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	3.3	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/11/21 16:00	08/12/21 00:00	KB1	IC6	1	B116897	No Prep

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2122950-12	Client Sample Name:	JPL- GW Monitoring Wells, MW-19-1, 7/19/2021 3:30:00PM, 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	1.0	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: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2122950-12	Client Sample Name: JPL- GW Monitoring Wells, MW-19-1, 7/19/2021 3:30:00PM, 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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3761 Attucks Drive
Powell, OH 43065

Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2122950-12	Client Sample Name: JPL- GW Monitoring Wells, MW-19-1, 7/19/2021 3:30:00PM, 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	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)	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	07/20/21 06:00	07/21/21 11:06	MGC	MS-V5	1	B114637	EPA 524.2

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Powell, OH 43065

Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2122950-12	Client Sample Name: JPL- GW Monitoring Wells, MW-19-1, 7/19/2021 3:30:00PM, 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	07/20/21 06:00	07/21/21	11:06	MGC	MS-V5	1	B114637	EPA 524.2

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Powell, OH 43065

Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2122950-12	Client Sample Name: JPL- GW Monitoring Wells, MW-19-1, 7/19/2021 3:30:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/11/21 16:00	08/12/21 00:31	KB1	IC6	1	B116897	No Prep

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Tidewater Inc. - Powell
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Powell, OH 43065

Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2122950-13	Client Sample Name:	JPL- GW Monitoring Wells, SB-1-071921, 7/19/2021 3:20:00PM, 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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Powell, OH 43065

Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2122950-13	Client Sample Name: JPL- GW Monitoring Wells, SB-1-071921, 7/19/2021 3:20:00PM, 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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Powell, OH 43065

Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2122950-13	Client Sample Name: JPL- GW Monitoring Wells, SB-1-071921, 7/19/2021 3:20:00PM, 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	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)	95.2	%	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	07/20/21 06:00	07/21/21 11:31	MGC	MS-V5	1	B114637	EPA 524.2

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

Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2122950-13	Client Sample Name: JPL- GW Monitoring Wells, SB-1-071921, 7/19/2021 3:20:00PM, 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	07/20/21 06:00	07/21/21 11:31		MGC	MS-V5	1	B114637	EPA 524.2

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Powell, OH 43065

Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2122950-13	Client Sample Name: JPL- GW Monitoring Wells, SB-1-071921, 7/19/2021 3:20:00PM, Blaine Tech - L. Henderson
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/11/21 16:00	08/12/21 01:02	KB1	IC6	1	B116897	No Prep

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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2122950-13	Client Sample Name: JPL- GW Monitoring Wells, SB-1-071921, 7/19/2021 3:20:00PM, Blaine Tech - L. Henderson
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00011	mg/L	0.00020	0.000020	EPA-218.6	0.000025	J	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	07/21/21 11:00	07/21/21	15:23	KEB	IC-4	1	B114845	No Prep
2	EPA-200.8	07/26/21 22:15	07/28/21	02:10	ARD	PE-EL4	1	B115399	EPA 200.2

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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
QC Batch ID: B114637						
Benzene	B114637-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B114637-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B114637-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B114637-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B114637-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B114637-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B114637-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B114637-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B114637-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B114637-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B114637-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B114637-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B114637-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B114637-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B114637-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B114637-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B114637-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B114637-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B114637-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B114637-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B114637-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B114637-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B114637-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B114637-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B114637-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B114637-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B114637-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B114637-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B114637-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B114637-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B114637-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B114637-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B114637-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B114637-BLK1	ND	ug/L	0.50	0.14	

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Powell, OH 43065

Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
QC Batch ID: B114637						
trans-1,3-Dichloropropene	B114637-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B114637-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B114637-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B114637-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B114637-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B114637-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B114637-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B114637-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B114637-BLK1	ND	ug/L	0.50	0.12	
Styrene	B114637-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B114637-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2,2-Tetrachloroethane	B114637-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B114637-BLK1	ND	ug/L	0.50	0.23	
Toluene	B114637-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B114637-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B114637-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B114637-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B114637-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B114637-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B114637-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B114637-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B114637-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B114637-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B114637-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B114637-BLK1	ND	ug/L	0.50	0.18	
Acetone	B114637-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B114637-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B114637-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B114637-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B114637-BLK1	ND	ug/L	2.0	2.0	
Carbon disulfide	B114637-BLK1	ND	ug/L	0.50	0.48	
trans-1,4-Dichloro-2-butene	B114637-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B114637-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B114637-BLK1	ND	ug/L	4.0	1.3	

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Powell, OH 43065

Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
QC Batch ID: B114637						
Ethyl t-butyl ether	B114637-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B114637-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B114637-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B114637-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B114637-BLK1	ND	ug/L	5.0	3.3	
Methyl iodide	B114637-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B114637-BLK1	ND	ug/L	5.0	2.4	
Methyl methacrylate	B114637-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B114637-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B114637-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B114637-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B114637-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B114637-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B114637-BLK1	104	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B114637-BLK1	96.7	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B114637-BLK1	93.5	%	80 - 120 (LCL - UCL)		

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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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	
QC Batch ID: B114637										
Benzene	B114637-BS1	LCS	23.880	25.000	ug/L	95.5		70 - 130		
Bromodichloromethane	B114637-BS1	LCS	26.870	25.000	ug/L	107		70 - 130		
Chlorobenzene	B114637-BS1	LCS	24.920	25.000	ug/L	99.7		70 - 130		
Chloroethane	B114637-BS1	LCS	22.610	25.000	ug/L	90.4		70 - 130		
1,4-Dichlorobenzene	B114637-BS1	LCS	25.020	25.000	ug/L	100		70 - 130		
1,1-Dichloroethane	B114637-BS1	LCS	24.870	25.000	ug/L	99.5		70 - 130		
1,1-Dichloroethene	B114637-BS1	LCS	26.650	25.000	ug/L	107		70 - 130		
Toluene	B114637-BS1	LCS	24.610	25.000	ug/L	98.4		70 - 130		
Trichloroethene	B114637-BS1	LCS	24.420	25.000	ug/L	97.7		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B114637-BS1	LCS	10.190	10.000	ug/L	102		75 - 125		
Toluene-d8 (Surrogate)	B114637-BS1	LCS	9.9000	10.000	ug/L	99.0		80 - 120		
4-Bromofluorobenzene (Surrogate)	B114637-BS1	LCS	10.200	10.000	ug/L	102		80 - 120		

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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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	
QC Batch ID: B114637		Used client sample: Y - Description: MW-20-3, 07/19/2021 11:00								
Benzene	MS	2122950-03	ND	23.550	25.000	ug/L		94.2		70 - 130
	MSD	2122950-03	ND	23.480	25.000	ug/L	0.3	93.9	20	70 - 130
Bromodichloromethane	MS	2122950-03	ND	26.600	25.000	ug/L		106		70 - 130
	MSD	2122950-03	ND	27.500	25.000	ug/L	3.3	110	20	70 - 130
Chlorobenzene	MS	2122950-03	ND	24.100	25.000	ug/L		96.4		70 - 130
	MSD	2122950-03	ND	25.050	25.000	ug/L	3.9	100	20	70 - 130
Chloroethane	MS	2122950-03	ND	22.940	25.000	ug/L		91.8		70 - 130
	MSD	2122950-03	ND	22.940	25.000	ug/L	0	91.8	20	70 - 130
1,4-Dichlorobenzene	MS	2122950-03	ND	24.270	25.000	ug/L		97.1		70 - 130
	MSD	2122950-03	ND	25.650	25.000	ug/L	5.5	103	20	70 - 130
1,1-Dichloroethane	MS	2122950-03	ND	24.720	25.000	ug/L		98.9		70 - 130
	MSD	2122950-03	ND	24.630	25.000	ug/L	0.4	98.5	20	70 - 130
1,1-Dichloroethene	MS	2122950-03	ND	26.190	25.000	ug/L		105		70 - 130
	MSD	2122950-03	ND	26.000	25.000	ug/L	0.7	104	20	70 - 130
Toluene	MS	2122950-03	ND	24.440	25.000	ug/L		97.8		70 - 130
	MSD	2122950-03	ND	25.450	25.000	ug/L	4.0	102	20	70 - 130
Trichloroethene	MS	2122950-03	ND	24.230	25.000	ug/L		96.9		70 - 130
	MSD	2122950-03	ND	24.700	25.000	ug/L	1.9	98.8	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	2122950-03	ND	10.200	10.000	ug/L		102		75 - 125
	MSD	2122950-03	ND	10.270	10.000	ug/L	0.7	103		75 - 125
Toluene-d8 (Surrogate)	MS	2122950-03	ND	9.9200	10.000	ug/L		99.2		80 - 120
	MSD	2122950-03	ND	10.130	10.000	ug/L	2.1	101		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	2122950-03	ND	9.8600	10.000	ug/L		98.6		80 - 120
	MSD	2122950-03	ND	10.170	10.000	ug/L	3.1	102		80 - 120

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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
QC Batch ID: B114637						
Chloroacetonitrile	B114637-BLK1	0	ug/L			
1-Chlorobutane	B114637-BLK1	0	ug/L			
1,1-Dichloropropanone	B114637-BLK1	0	ug/L			
Methyl acrylate	B114637-BLK1	0	ug/L			
Nitrobenzene	B114637-BLK1	0	ug/L			
2-Nitropropane	B114637-BLK1	0	ug/L			

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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
QC Batch ID: B116897						
Perchlorate	B116897-BLK1	ND	ug/L	2.0	0.81	

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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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		
QC Batch ID: B116897											
Perchlorate	B116897-BS1	LCS	8.6516	10.000	ug/L	86.5		85 - 115			
	B116897-BSD1	LCSD	10.075	10.000	ug/L	101	15.2	85 - 115		15	L08

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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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	RPD	
QC Batch ID: B116897		Used client sample: Y - Description: MW-20-3, 07/19/2021 11:00								
Perchlorate	DUP	2122950-03	ND	ND		ug/L				15
	MS	2122950-03	ND	9.7049	10.101	ug/L		96.1		80 - 120
	MSD	2122950-03	ND	9.6219	10.101	ug/L	0.9	95.3	15	80 - 120

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Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B114845						
Hexavalent Chromium	B114845-BLK1	0.000025000	mg/L	0.00020	0.000020	J
QC Batch ID: B115399						
Total Recoverable Chromium	B115399-BLK1	ND	ug/L	3.0	0.50	

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

Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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		
QC Batch ID: B114845											
Hexavalent Chromium	B114845-BS1	LCS	0.019157	0.020000	mg/L	95.8		90 - 110			
QC Batch ID: B115399											
Total Recoverable Chromium	B115399-BS1	LCS	41.742	40.000	ug/L	104		85 - 115			

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

Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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	RPD		Percent Recovery
QC Batch ID: B114845		Used client sample: Y - Description: MW-20-3, 07/19/2021 11:00									
Hexavalent Chromium	DUP	2122950-03	0.00013200	0.00011500		mg/L	13.8		10		J,A02
	MS	2122950-03	0.00013200	0.018606	0.020202	mg/L		91.4		90 - 110	
	MSD	2122950-03	0.00013200	0.018433	0.020202	mg/L	0.9	90.6	10	90 - 110	
QC Batch ID: B115399		Used client sample: Y - Description: MW-20-3, 07/19/2021 11:00									
Total Recoverable Chromium	DUP	2122950-03	ND	ND		ug/L			20		
	MS	2122950-03	ND	41.933	40.000	ug/L		105		70 - 130	
	MSD	2122950-03	ND	52.490	40.000	ug/L	22.4	131	20	70 - 130	Q03

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

Reported: 08/17/2021 15:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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.
- L08 The relative percent difference between the Laboratory Control Sample (LCS) and the LCS Duplicate exceeds the control limit.
- Q03 Matrix spike recovery(s) was(were) not within the control limits.
- V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.



Date of Report: 08/25/2021

David Conner

Tidewater Inc. - Powell

3761 Attucks Drive

Powell, OH 43065

Client Project: 3Q21

BCL Project: JPL- GW Monitoring Wells-CLP

BCL Work Order: 2123128

Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 7/20/2021. 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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BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 of 2
Submission #: 21-23128

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 Intact? Yes No Containers Intact? Yes No None Comments: _____

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

COC Received: YES NO
Emissivity: 0.95 Container: PE Thermometer ID: 208
Temperature: (A) 1.4 °C / (C) 1.3 °C
Date/Time: 7/20/10 Analyst Init: EWR

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	5	6	9	10	11	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES	DE	DE	DE	DE	DE					
2oz Cr ⁶	F	F	F	F	F					
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz	G	G	G	G	G					
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										
40ml VOA VIAL	ABC	ABC	ABC	ABC	ABC					
QT EPA 16640										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL-504										
QT EPA 508/608.3/8181A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
5oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
5oz / 16oz / 32oz AMBER										
5oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDIAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____
Sample Numbering Completed By: EWR Date/Time: 7-20-10 2036
A = Actual / C = Corrected
Rev 22 04/13/21 (S:\IT\Doc\Word\PerfectLAB_BDCS\FORMS\SAVRE\REV 20)



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

Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2123128-01	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: TB-2-072021 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/20/2021 19:10 Sampling Date: 07/20/2021 08:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-2-07-2021 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

2123128-02	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-25-5 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/20/2021 19:10 Sampling Date: 07/20/2021 09:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-25-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

2123128-03	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-25-4 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/20/2021 19:10 Sampling Date: 07/20/2021 10:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-25-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

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

Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2123128-04	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-25-3 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/20/2021 19:10 Sampling Date: 07/20/2021 10:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-25-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

2123128-05	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-25-2 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/20/2021 19:10 Sampling Date: 07/20/2021 11:40 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-25-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

2123128-06	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-25-1 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/20/2021 19:10 Sampling Date: 07/20/2021 12:10 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-25-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

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

Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2123128-07	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-14-5 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/20/2021 19:10 Sampling Date: 07/20/2021 13:50 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-14-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

2123128-08	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-14-4 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/20/2021 19:10 Sampling Date: 07/20/2021 14:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-14-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

2123128-09	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-14-3 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/20/2021 19:10 Sampling Date: 07/20/2021 15:10 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-14-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

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Powell, OH 43065

Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
2123128-10	COC Number:	---	Receive Date: 07/20/2021 19:10
	Project Number:	JPL	Sampling Date: 07/20/2021 15:40
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	MW-14-2	Lab Matrix: Water
	Sampled By:	Blaine Tech - L. Henderson of BTST	Sample Type: Water
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): MW-14-2
			Matrix: W
			Sample QC Type (SACode): CS
		Cooler ID:	
2123128-11	COC Number:	---	Receive Date: 07/20/2021 19:10
	Project Number:	JPL	Sampling Date: 07/20/2021 15:15
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	EB-2-072021	Lab Matrix: Water
	Sampled By:	Blaine Tech - L. Henderson of BTST	Sample Type: Water
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): EB-2-072021
			Matrix: W
			Sample QC Type (SACode): CS
		Cooler ID:	

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123128-01	Client Sample Name: JPL, TB-2-072021, 7/20/2021 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: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2123128-01) and Client Sample Name (JPL, TB-2-072021, 7/20/2021 8:00:00AM, Blaine Tech - L. Henderson)

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

Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123128-01	Client Sample Name: JPL, TB-2-072021, 7/20/2021 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	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)	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	07/21/21 06:00	07/21/21 10:18	MGC	MS-V5	1	B114767	EPA 524.2

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

Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123128-01	Client Sample Name: JPL, TB-2-072021, 7/20/2021 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	07/21/21 06:00	07/21/21 10:18		MGC	MS-V5	1	B114767	EPA 524.2

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

Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123128-02	Client Sample Name: JPL, MW-25-5, 7/20/2021 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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Powell, OH 43065

Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2123128-02) and Client Sample Name (JPL, MW-25-5, 7/20/2021 9:30:00AM, Blaine Tech - L. Henderson)

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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Tidewater Inc. - Powell
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Powell, OH 43065

Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123128-02	Client Sample Name: JPL, MW-25-5, 7/20/2021 9:30:00AM, 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	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)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.1	%	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	07/21/21 06:00	07/21/21 11:55	MGC	MS-V5	1	B114767	EPA 524.2

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123128-02	Client Sample Name: JPL, MW-25-5, 7/20/2021 9:30:00AM, 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	07/21/21 06:00	07/21/21 11:55		MGC	MS-V5	1	B114767	EPA 524.2

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123128-02	Client Sample Name: JPL, MW-25-5, 7/20/2021 9:30:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/11/21 11:00	08/12/21 22:12	KB1	IC6	1	B117427	No Prep

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123128-02	Client Sample Name: JPL, MW-25-5, 7/20/2021 9:30:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.00020	0.000020	EPA-218.6	0.000065		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	07/26/21 18:00	07/26/21 19:33		KB1	IC-4	1	B115453	No Prep
2	EPA-200.8	07/29/21 22:30	07/31/21 13:44		ARD	PE-EL2	1	B115763	EPA 200.2

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123128-03	Client Sample Name: JPL, MW-25-4, 7/20/2021 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: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123128-03	Client Sample Name: JPL, MW-25-4, 7/20/2021 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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Powell, OH 43065

Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123128-03	Client Sample Name: JPL, MW-25-4, 7/20/2021 10:00:00AM, 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	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)	97.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.2	%	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	07/21/21 06:00	07/21/21 12:19	MGC	MS-V5	1	B114767	EPA 524.2

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123128-03	Client Sample Name: JPL, MW-25-4, 7/20/2021 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	07/21/21 06:00	07/21/21 12:19		MGC	MS-V5	1	B114767	EPA 524.2

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123128-03	Client Sample Name: JPL, MW-25-4, 7/20/2021 10:00:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	8.4	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/11/21 11:00	08/12/21 22:27	KB1	IC6	1	B117427	No Prep

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123128-03	Client Sample Name: JPL, MW-25-4, 7/20/2021 10:00:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00088	mg/L	0.00020	0.000020	EPA-218.6	0.000065		1
Total Recoverable Chromium	1.3	ug/L	3.0	0.50	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	07/26/21 18:00	07/26/21 18:45		KB1	IC-4	1	B115453	No Prep
2	EPA-200.8	07/29/21 22:30	07/31/21 13:46		ARD	PE-EL2	1	B115763	EPA 200.2

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123128-04	Client Sample Name: JPL, MW-25-3, 7/20/2021 10:45:00AM, 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	0.39	ug/L	0.50	0.14	EPA-524.2	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: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123128-04		Client Sample Name: JPL, MW-25-3, 7/20/2021 10:45:00AM, 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	2.2	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: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123128-04	Client Sample Name: JPL, MW-25-3, 7/20/2021 10:45:00AM, 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	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)	99.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.4	%	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	07/21/21 06:00	07/21/21 07:28	MGC	MS-V5	1	B114767	EPA 524.2

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123128-04	Client Sample Name: JPL, MW-25-3, 7/20/2021 10:45:00AM, 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	07/21/21 06:00	07/21/21	07:28	MGC	MS-V5	1	B114767	EPA 524.2

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123128-04	Client Sample Name: JPL, MW-25-3, 7/20/2021 10:45:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	9.5	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/11/21 11:00	08/12/21 22:58	KB1	IC6	1	B117427	No Prep

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123128-04	Client Sample Name: JPL, MW-25-3, 7/20/2021 10:45:00AM, Blaine Tech - L. Henderson							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0033	mg/L	0.00020	0.000020	EPA-218.6	0.000051		1
Total Recoverable Chromium	2.5	ug/L	3.0	0.50	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	08/02/21 23:00	08/03/21 12:37		ANK	IC-4	1	B116087	No Prep
2	EPA-200.8	07/29/21 22:30	07/31/21 13:21		ARD	PE-EL2	1	B115763	EPA 200.2

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123128-05	Client Sample Name: JPL, MW-25-2, 7/20/2021 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
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	0.16	ug/L	0.50	0.14	EPA-524.2	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: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123128-05	Client Sample Name: JPL, MW-25-2, 7/20/2021 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	0.32	ug/L	0.50	0.23	EPA-524.2	ND	J	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: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123128-05	Client Sample Name: JPL, MW-25-2, 7/20/2021 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	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)	98.8	%	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	07/21/21 06:00	07/21/21 12:44	MGC	MS-V5	1	B114767	EPA 524.2

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Powell, OH 43065

Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123128-05	Client Sample Name: JPL, MW-25-2, 7/20/2021 11:40:00AM, 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	07/21/21 06:00	07/21/21 12:44		MGC	MS-V5	1	B114767	EPA 524.2

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123128-05	Client Sample Name: JPL, MW-25-2, 7/20/2021 11:40:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	11	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/11/21 11:00	08/13/21 00:30	KB1	IC6	1	B117427	No Prep

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123128-05	Client Sample Name: JPL, MW-25-2, 7/20/2021 11:40:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0020	mg/L	0.00020	0.000020	EPA-218.6	0.000065		1
Total Recoverable Chromium	1.8	ug/L	3.0	0.50	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	07/26/21 18:00	07/26/21 19:52		KB1	IC-4	1	B115453	No Prep
2	EPA-200.8	07/29/21 22:30	07/31/21 13:47		ARD	PE-EL2	1	B115763	EPA 200.2

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123128-06	Client Sample Name: JPL, MW-25-1, 7/20/2021 12:10:00PM, 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	0.55	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: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123128-06	Client Sample Name: JPL, MW-25-1, 7/20/2021 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	0.46	ug/L	0.50	0.14	EPA-524.2	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
Trichloroethene	0.48	ug/L	0.50	0.19	EPA-524.2	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		1

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Powell, OH 43065

Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123128-06	Client Sample Name: JPL, MW-25-1, 7/20/2021 12:10:00PM, 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	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)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.1	%	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	07/21/21 06:00	07/21/21 13:08	MGC	MS-V5	1	B114767	EPA 524.2

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123128-06	Client Sample Name: JPL, MW-25-1, 7/20/2021 12:10:00PM, 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	07/21/21 06:00	07/21/21 13:08		MGC	MS-V5	1	B114767	EPA 524.2

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123128-06	Client Sample Name: JPL, MW-25-1, 7/20/2021 12:10:00PM, Blaine Tech - L. Henderson
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	6.8	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/11/21 11:00	08/13/21 01:00	KB1	IC6	1	B117427	No Prep

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123128-06	Client Sample Name: JPL, MW-25-1, 7/20/2021 12:10:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00056	mg/L	0.00020	0.000020	EPA-218.6	0.000065		1
Total Recoverable Chromium	1.8	ug/L	3.0	0.50	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	07/26/21 18:00	07/26/21 20:32		KB1	IC-4	1	B115453	No Prep
2	EPA-200.8	07/29/21 22:30	07/31/21 13:49		ARD	PE-EL2	1	B115763	EPA 200.2

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123128-07	Client Sample Name: JPL, MW-14-5, 7/20/2021 1:50:00PM, 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: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2123128-07) and Client Sample Name (JPL, MW-14-5, 7/20/2021 1:50:00PM, Blaine Tech - L. Henderson)

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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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123128-07	Client Sample Name: JPL, MW-14-5, 7/20/2021 1:50:00PM, 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	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)	99.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.1	%	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	07/21/21 06:00	07/21/21 13:33	MGC	MS-V5	1	B114767	EPA 524.2

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123128-07	Client Sample Name: JPL, MW-14-5, 7/20/2021 1:50:00PM, 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	07/21/21 06:00	07/21/21	13:33	MGC	MS-V5	1	B114767	EPA 524.2

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123128-07	Client Sample Name: JPL, MW-14-5, 7/20/2021 1:50:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/11/21 11:00	08/13/21 01:31	KB1	IC6	1	B117427	No Prep

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123128-08	Client Sample Name: JPL, MW-14-4, 7/20/2021 2:30:00PM, 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	0.14	ug/L	0.50	0.14	EPA-524.2	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: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2123128-08) and Client Sample Name (JPL, MW-14-4, 7/20/2021 2:30:00PM, Blaine Tech - L. Henderson)

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

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123128-08	Client Sample Name: JPL, MW-14-4, 7/20/2021 2:30:00PM, 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	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)	99.7	%	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	07/21/21 09:00	07/21/21 15:10	MGC	MS-V5	1	B114768	EPA 524.2

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123128-08	Client Sample Name: JPL, MW-14-4, 7/20/2021 2:30:00PM, 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	07/21/21 09:00	07/21/21 15:10		MGC	MS-V5	1	B114768	EPA 524.2

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123128-08	Client Sample Name: JPL, MW-14-4, 7/20/2021 2:30:00PM, Blaine Tech - L. Henderson
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	4.5	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/11/21 11:00	08/13/21 03:03	KB1	IC6	1	B117428	No Prep

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123128-09	Client Sample Name: JPL, MW-14-3, 7/20/2021 3:10:00PM, 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	0.48	ug/L	0.50	0.14	EPA-524.2	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	0.28	ug/L	0.50	0.15	EPA-524.2	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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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123128-09		Client Sample Name: JPL, MW-14-3, 7/20/2021 3:10:00PM, 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	0.44	ug/L	0.50	0.23	EPA-524.2	ND	J	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	0.69	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: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123128-09	Client Sample Name: JPL, MW-14-3, 7/20/2021 3:10:00PM, 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	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)	99.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.3	%	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	07/21/21 06:00	07/21/21 13:57	MGC	MS-V5	1	B114767	EPA 524.2

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Powell, OH 43065

Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123128-09	Client Sample Name: JPL, MW-14-3, 7/20/2021 3:10:00PM, 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	07/21/21 06:00	07/21/21	13:57	MGC	MS-V5	1	B114767	EPA 524.2

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123128-09	Client Sample Name: JPL, MW-14-3, 7/20/2021 3:10:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	4.2	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/11/21 11:00	08/13/21 04:05	KB1	IC6	1	B117428	No Prep

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123128-09	Client Sample Name: JPL, MW-14-3, 7/20/2021 3:10:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00055	mg/L	0.00020	0.000020	EPA-218.6	0.000065		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	07/26/21 18:00	07/26/21	20:42	KB1	IC-4	1	B115453	No Prep
2	EPA-200.8	07/29/21 22:30	07/31/21	13:51	ARD	PE-EL2	1	B115763	EPA 200.2

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123128-10	Client Sample Name: JPL, MW-14-2, 7/20/2021 3:40:00PM, 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	0.51	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: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123128-10	Client Sample Name: JPL, MW-14-2, 7/20/2021 3:40:00PM, 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	0.34	ug/L	0.50	0.23	EPA-524.2	ND	J	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	1.3	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: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123128-10	Client Sample Name: JPL, MW-14-2, 7/20/2021 3:40:00PM, 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	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)	102	%	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	07/21/21 06:00	07/21/21 14:21	MGC	MS-V5	1	B114767	EPA 524.2

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123128-10	Client Sample Name: JPL, MW-14-2, 7/20/2021 3:40:00PM, 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	07/21/21 06:00	07/21/21	14:21	MGC	MS-V5	1	B114767	EPA 524.2

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123128-10	Client Sample Name: JPL, MW-14-2, 7/20/2021 3:40:00PM, Blaine Tech - L. Henderson
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.8	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/11/21 11:00	08/13/21 04:51	KB1	IC6	1	B117428	No Prep

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123128-10	Client Sample Name: JPL, MW-14-2, 7/20/2021 3:40:00PM, Blaine Tech - L. Henderson
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00022	mg/L	0.00020	0.000020	EPA-218.6	0.000065		1
Total Recoverable Chromium	0.61	ug/L	3.0	0.50	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	07/26/21 18:00	07/26/21 20:51		KB1	IC-4	1	B115453	No Prep
2	EPA-200.8	07/29/21 22:30	07/31/21 13:52		ARD	PE-EL2	1	B115763	EPA 200.2

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Powell, OH 43065

Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123128-11	Client Sample Name: JPL, EB-2-072021, 7/20/2021 3:15:00PM, 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: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2123128-11) and Client Sample Name (JPL, EB-2-072021, 7/20/2021 3:15:00PM, Blaine Tech - L. Henderson)

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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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123128-11	Client Sample Name: JPL, EB-2-072021, 7/20/2021 3:15:00PM, 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	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)	102	%	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	07/21/21 06:00	07/21/21 14:46	MGC	MS-V5	1	B114767	EPA 524.2

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123128-11	Client Sample Name: JPL, EB-2-072021, 7/20/2021 3:15:00PM, 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	07/21/21 06:00	07/21/21	14:46	MGC	MS-V5	1	B114767	EPA 524.2

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123128-11	Client Sample Name: JPL, EB-2-072021, 7/20/2021 3:15:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/11/21 11:00	08/13/21 05:06	KB1	IC6	1	B117428	No Prep

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123128-11	Client Sample Name: JPL, EB-2-072021, 7/20/2021 3:15:00PM, 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	0.000065	J	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	07/26/21 18:00	07/26/21	21:01	KB1	IC-4	1	B115453	No Prep
2	EPA-200.8	07/29/21 22:30	07/31/21	14:05	ARD	PE-EL2	1	B115764	EPA 200.2

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
QC Batch ID: B114767						
Benzene	B114767-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B114767-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B114767-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B114767-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B114767-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B114767-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B114767-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B114767-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B114767-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B114767-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B114767-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B114767-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B114767-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B114767-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B114767-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B114767-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B114767-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B114767-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B114767-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B114767-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B114767-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B114767-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B114767-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B114767-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B114767-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B114767-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B114767-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B114767-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B114767-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B114767-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B114767-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B114767-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B114767-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B114767-BLK1	ND	ug/L	0.50	0.14	

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Powell, OH 43065

Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
QC Batch ID: B114767						
trans-1,3-Dichloropropene	B114767-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B114767-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B114767-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B114767-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B114767-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B114767-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B114767-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B114767-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B114767-BLK1	ND	ug/L	0.50	0.12	
Styrene	B114767-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B114767-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2,2-Tetrachloroethane	B114767-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B114767-BLK1	ND	ug/L	0.50	0.23	
Toluene	B114767-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B114767-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B114767-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B114767-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B114767-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B114767-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B114767-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B114767-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B114767-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B114767-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B114767-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B114767-BLK1	ND	ug/L	0.50	0.18	
Acetone	B114767-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B114767-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B114767-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B114767-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B114767-BLK1	ND	ug/L	2.0	2.0	
Carbon disulfide	B114767-BLK1	ND	ug/L	0.50	0.48	
trans-1,4-Dichloro-2-butene	B114767-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B114767-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B114767-BLK1	ND	ug/L	4.0	1.3	

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
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QC Batch ID: B114767

Ethyl t-butyl ether	B114767-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B114767-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B114767-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B114767-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B114767-BLK1	ND	ug/L	5.0	3.3	
Methyl iodide	B114767-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B114767-BLK1	ND	ug/L	5.0	2.4	
Methyl methacrylate	B114767-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B114767-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B114767-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B114767-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B114767-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B114767-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B114767-BLK1	101	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B114767-BLK1	99.5	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B114767-BLK1	98.1	%	80 - 120 (LCL - UCL)		

QC Batch ID: B114768

Benzene	B114768-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B114768-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B114768-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B114768-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B114768-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B114768-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B114768-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B114768-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B114768-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B114768-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B114768-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B114768-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B114768-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B114768-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B114768-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B114768-BLK1	ND	ug/L	0.50	0.093	

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Project Number: 3Q21
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
QC Batch ID: B114768						
Dibromochloromethane	B114768-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B114768-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B114768-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B114768-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B114768-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B114768-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B114768-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B114768-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B114768-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B114768-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B114768-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B114768-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B114768-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B114768-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B114768-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B114768-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B114768-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B114768-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	B114768-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B114768-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B114768-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B114768-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B114768-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B114768-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B114768-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B114768-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B114768-BLK1	ND	ug/L	0.50	0.12	
Styrene	B114768-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B114768-BLK1	ND	ug/L	0.50	0.21	
1,1,2,2-Tetrachloroethane	B114768-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B114768-BLK1	ND	ug/L	0.50	0.23	
Toluene	B114768-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B114768-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B114768-BLK1	ND	ug/L	0.50	0.15	

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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: B114768 and various chemical constituents with their respective results and limits.

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Project Number: 3Q21
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	
QC Batch ID: B114767										
Benzene	B114767-BS1	LCS	24.960	25.000	ug/L	99.8		70 - 130		
	B114767-BSD1	LCSD	23.670	25.000	ug/L	94.7	5.3	70 - 130	20	
Bromodichloromethane	B114767-BS1	LCS	29.100	25.000	ug/L	116		70 - 130		
	B114767-BSD1	LCSD	27.390	25.000	ug/L	110	6.1	70 - 130	20	
Chlorobenzene	B114767-BS1	LCS	26.010	25.000	ug/L	104		70 - 130		
	B114767-BSD1	LCSD	24.030	25.000	ug/L	96.1	7.9	70 - 130	20	
Chloroethane	B114767-BS1	LCS	23.770	25.000	ug/L	95.1		70 - 130		
	B114767-BSD1	LCSD	22.220	25.000	ug/L	88.9	6.7	70 - 130	20	
1,4-Dichlorobenzene	B114767-BS1	LCS	25.950	25.000	ug/L	104		70 - 130		
	B114767-BSD1	LCSD	23.790	25.000	ug/L	95.2	8.7	70 - 130	20	
1,1-Dichloroethane	B114767-BS1	LCS	26.190	25.000	ug/L	105		70 - 130		
	B114767-BSD1	LCSD	24.950	25.000	ug/L	99.8	4.8	70 - 130	20	
1,1-Dichloroethene	B114767-BS1	LCS	27.840	25.000	ug/L	111		70 - 130		
	B114767-BSD1	LCSD	26.140	25.000	ug/L	105	6.3	70 - 130	20	
Toluene	B114767-BS1	LCS	26.100	25.000	ug/L	104		70 - 130		
	B114767-BSD1	LCSD	24.820	25.000	ug/L	99.3	5.0	70 - 130	20	
Trichloroethene	B114767-BS1	LCS	25.430	25.000	ug/L	102		70 - 130		
	B114767-BSD1	LCSD	24.060	25.000	ug/L	96.2	5.5	70 - 130	20	
1,2-Dichloroethane-d4 (Surrogate)	B114767-BS1	LCS	10.170	10.000	ug/L	102		75 - 125		
	B114767-BSD1	LCSD	10.080	10.000	ug/L	101	0.9	75 - 125		
Toluene-d8 (Surrogate)	B114767-BS1	LCS	9.8600	10.000	ug/L	98.6		80 - 120		
	B114767-BSD1	LCSD	10.100	10.000	ug/L	101	2.4	80 - 120		
4-Bromofluorobenzene (Surrogate)	B114767-BS1	LCS	9.9800	10.000	ug/L	99.8		80 - 120		
	B114767-BSD1	LCSD	9.6800	10.000	ug/L	96.8	3.1	80 - 120		

QC Batch ID: B114768										
Benzene	B114768-BS1	LCS	24.330	25.000	ug/L	97.3		70 - 130		
Bromodichloromethane	B114768-BS1	LCS	28.670	25.000	ug/L	115		70 - 130		
Chlorobenzene	B114768-BS1	LCS	24.870	25.000	ug/L	99.5		70 - 130		
Chloroethane	B114768-BS1	LCS	23.340	25.000	ug/L	93.4		70 - 130		
1,4-Dichlorobenzene	B114768-BS1	LCS	25.340	25.000	ug/L	101		70 - 130		
1,1-Dichloroethane	B114768-BS1	LCS	25.420	25.000	ug/L	102		70 - 130		
1,1-Dichloroethene	B114768-BS1	LCS	26.680	25.000	ug/L	107		70 - 130		
Toluene	B114768-BS1	LCS	25.210	25.000	ug/L	101		70 - 130		
Trichloroethene	B114768-BS1	LCS	25.390	25.000	ug/L	102		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B114768-BS1	LCS	10.910	10.000	ug/L	109		75 - 125		
Toluene-d8 (Surrogate)	B114768-BS1	LCS	10.010	10.000	ug/L	100		80 - 120		

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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	
QC Batch ID: B114768										
4-Bromofluorobenzene (Surrogate)	B114768-BS1	LCS	10.340	10.000	ug/L	103		80	120	

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Project Number: 3Q21
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	
QC Batch ID: B114767		Used client sample: Y - Description: MW-25-3, 07/20/2021 10:45								
Benzene	MS	2123128-04	ND	24.130	25.000	ug/L		96.5		70 - 130
	MSD	2123128-04	ND	23.810	25.000	ug/L	1.3	95.2	20	70 - 130
Bromodichloromethane	MS	2123128-04	ND	28.770	25.000	ug/L		115		70 - 130
	MSD	2123128-04	ND	28.350	25.000	ug/L	1.5	113	20	70 - 130
Chlorobenzene	MS	2123128-04	ND	24.950	25.000	ug/L		99.8		70 - 130
	MSD	2123128-04	ND	25.100	25.000	ug/L	0.6	100	20	70 - 130
Chloroethane	MS	2123128-04	ND	23.000	25.000	ug/L		92.0		70 - 130
	MSD	2123128-04	ND	22.660	25.000	ug/L	1.5	90.6	20	70 - 130
1,4-Dichlorobenzene	MS	2123128-04	ND	25.080	25.000	ug/L		100		70 - 130
	MSD	2123128-04	ND	25.320	25.000	ug/L	1.0	101	20	70 - 130
1,1-Dichloroethane	MS	2123128-04	ND	25.470	25.000	ug/L		102		70 - 130
	MSD	2123128-04	ND	25.140	25.000	ug/L	1.3	101	20	70 - 130
1,1-Dichloroethene	MS	2123128-04	ND	26.910	25.000	ug/L		108		70 - 130
	MSD	2123128-04	ND	26.550	25.000	ug/L	1.3	106	20	70 - 130
Toluene	MS	2123128-04	ND	25.050	25.000	ug/L		100		70 - 130
	MSD	2123128-04	ND	24.940	25.000	ug/L	0.4	99.8	20	70 - 130
Trichloroethene	MS	2123128-04	ND	25.170	25.000	ug/L		101		70 - 130
	MSD	2123128-04	ND	24.560	25.000	ug/L	2.5	98.2	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	2123128-04	ND	10.270	10.000	ug/L		103		75 - 125
	MSD	2123128-04	ND	10.000	10.000	ug/L	2.7	100		75 - 125
Toluene-d8 (Surrogate)	MS	2123128-04	ND	9.9700	10.000	ug/L		99.7		80 - 120
	MSD	2123128-04	ND	9.9400	10.000	ug/L	0.3	99.4		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	2123128-04	ND	9.9600	10.000	ug/L		99.6		80 - 120
	MSD	2123128-04	ND	9.9800	10.000	ug/L	0.2	99.8		80 - 120

QC Batch ID: B114768		Used client sample: Y - Description: MW-14-4, 07/20/2021 14:30								
Benzene	MS	2123128-08	ND	24.200	25.000	ug/L		96.8		70 - 130
	MSD	2123128-08	ND	24.020	25.000	ug/L	0.7	96.1	20	70 - 130
Bromodichloromethane	MS	2123128-08	ND	29.270	25.000	ug/L		117		70 - 130
	MSD	2123128-08	ND	29.130	25.000	ug/L	0.5	117	20	70 - 130
Chlorobenzene	MS	2123128-08	ND	24.950	25.000	ug/L		99.8		70 - 130
	MSD	2123128-08	ND	24.870	25.000	ug/L	0.3	99.5	20	70 - 130
Chloroethane	MS	2123128-08	ND	22.910	25.000	ug/L		91.6		70 - 130
	MSD	2123128-08	ND	22.880	25.000	ug/L	0.1	91.5	20	70 - 130
1,4-Dichlorobenzene	MS	2123128-08	ND	25.470	25.000	ug/L		102		70 - 130
	MSD	2123128-08	ND	25.240	25.000	ug/L	0.9	101	20	70 - 130
1,1-Dichloroethane	MS	2123128-08	ND	25.190	25.000	ug/L		101		70 - 130
	MSD	2123128-08	ND	25.010	25.000	ug/L	0.7	100	20	70 - 130

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Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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	Percent		Lab Quals
								Recovery	Control Limits RPD	
QC Batch ID: B114768		Used client sample: Y - Description: MW-14-4, 07/20/2021 14:30								
1,1-Dichloroethene	MS	2123128-08	ND	26.550	25.000	ug/L		106		70 - 130
	MSD	2123128-08	ND	26.400	25.000	ug/L	0.6	106	20	70 - 130
Toluene	MS	2123128-08	ND	25.650	25.000	ug/L		103		70 - 130
	MSD	2123128-08	ND	25.070	25.000	ug/L	2.3	100	20	70 - 130
Trichloroethene	MS	2123128-08	ND	24.820	25.000	ug/L		99.3		70 - 130
	MSD	2123128-08	ND	24.420	25.000	ug/L	1.6	97.7	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	2123128-08	ND	10.460	10.000	ug/L		105		75 - 125
	MSD	2123128-08	ND	10.420	10.000	ug/L	0.4	104		75 - 125
Toluene-d8 (Surrogate)	MS	2123128-08	ND	10.060	10.000	ug/L		101		80 - 120
	MSD	2123128-08	ND	9.9900	10.000	ug/L	0.7	99.9		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	2123128-08	ND	10.050	10.000	ug/L		100		80 - 120
	MSD	2123128-08	ND	10.040	10.000	ug/L	0.1	100		80 - 120

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Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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: B114767

Chloroacetonitrile	B114767-BLK1	0	ug/L			
1-Chlorobutane	B114767-BLK1	0	ug/L			
1,1-Dichloropropanone	B114767-BLK1	0	ug/L			
Methyl acrylate	B114767-BLK1	0	ug/L			
Nitrobenzene	B114767-BLK1	0	ug/L			
2-Nitropropane	B114767-BLK1	0	ug/L			

QC Batch ID: B114768

Chloroacetonitrile	B114768-BLK1	0	ug/L			
1-Chlorobutane	B114768-BLK1	0	ug/L			
1,1-Dichloropropanone	B114768-BLK1	0	ug/L			
Methyl acrylate	B114768-BLK1	0	ug/L			
Nitrobenzene	B114768-BLK1	0	ug/L			
2-Nitropropane	B114768-BLK1	0	ug/L			

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Reported: 08/25/2021 17:49
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Project Number: 3Q21
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
QC Batch ID: B117427						
Perchlorate	B117427-BLK1	ND	ug/L	2.0	0.81	
QC Batch ID: B117428						
Perchlorate	B117428-BLK1	ND	ug/L	2.0	0.81	

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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		
QC Batch ID: B117427											
Perchlorate	B117427-BS1	LCS	8.8614	10.000	ug/L	88.6		85	115		
QC Batch ID: B117428											
Perchlorate	B117428-BS1	LCS	8.6045	10.000	ug/L	86.0		85	115		

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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 Quals
								Percent Recovery	RPD	
QC Batch ID: B117427		Used client sample: Y - Description: MW-25-3, 07/20/2021 10:45								
Perchlorate	DUP	2123128-04	9.4622	9.4310		ug/L	0.3		15	
	MS	2123128-04	9.4622	18.082	10.101	ug/L		85.3		80 - 120
	MSD	2123128-04	9.4622	18.050	10.101	ug/L	0.2	85.0	15	80 - 120
QC Batch ID: B117428		Used client sample: Y - Description: MW-14-4, 07/20/2021 14:30								
Perchlorate	DUP	2123128-08	4.5180	4.1777		ug/L	7.8		15	
	MS	2123128-08	4.5180	12.686	10.101	ug/L		80.9		80 - 120
	MSD	2123128-08	4.5180	12.441	10.101	ug/L	1.9	78.4	15	80 - 120 Q03

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Reported: 08/25/2021 17:49
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Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B115453						
Hexavalent Chromium	B115453-BLK1	0.000065000	mg/L	0.00020	0.000020	J
QC Batch ID: B115763						
Total Recoverable Chromium	B115763-BLK1	ND	ug/L	3.0	0.50	
QC Batch ID: B115764						
Total Recoverable Chromium	B115764-BLK1	ND	ug/L	3.0	0.50	
QC Batch ID: B116087						
Hexavalent Chromium	B116087-BLK1	0.000051000	mg/L	0.00020	0.000020	J

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Project Number: 3Q21
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	
QC Batch ID: B115453										
Hexavalent Chromium	B115453-BS1	LCS	0.021867	0.020000	mg/L	109		90 - 110		
QC Batch ID: B115763										
Total Recoverable Chromium	B115763-BS1	LCS	41.471	40.000	ug/L	104		85 - 115		
QC Batch ID: B115764										
Total Recoverable Chromium	B115764-BS1	LCS	41.706	40.000	ug/L	104		85 - 115		
QC Batch ID: B116087										
Hexavalent Chromium	B116087-BS1	LCS	0.021175	0.020000	mg/L	106		90 - 110		

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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	
QC Batch ID: B115453		Used client sample: Y - Description: MW-25-4, 07/20/2021 10:00								
Hexavalent Chromium	DUP	2123128-03	0.00088000	0.00087900		mg/L	0.1		10	
	MS	2123128-03	0.00088000	0.020848	0.020202	mg/L		98.8		90 - 110
	MSD	2123128-03	0.00088000	0.020581	0.020202	mg/L	1.3	97.5	10	90 - 110
QC Batch ID: B115763		Used client sample: Y - Description: MW-25-3, 07/20/2021 10:45								
Total Recoverable Chromium	DUP	2123128-04	2.5440	2.4630		ug/L	3.2		20	J
	MS	2123128-04	2.5440	39.131	40.000	ug/L		91.5		70 - 130
	MSD	2123128-04	2.5440	40.884	40.000	ug/L	4.4	95.8	20	70 - 130
QC Batch ID: B115764		Used client sample: Y - Description: EB-2-072021, 07/20/2021 15:15								
Total Recoverable Chromium	DUP	2123128-11	ND	ND		ug/L			20	
	MS	2123128-11	ND	40.943	40.000	ug/L		102		70 - 130
	MSD	2123128-11	ND	42.637	40.000	ug/L	4.1	107	20	70 - 130
QC Batch ID: B116087		Used client sample: Y - Description: MW-25-3, 07/20/2021 10:45								
Hexavalent Chromium	DUP	2123128-04RE	0.0032840	0.0032510		mg/L	1.0		10	
	MS	2123128-04RE	0.0032840	0.022691	0.020202	mg/L		96.1		90 - 110
	MSD	2123128-04RE	0.0032840	0.022607	0.020202	mg/L	0.4	95.6	10	90 - 110

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

Reported: 08/25/2021 17:49
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- Q03 Matrix spike recovery(s) was(were) not within the control limits.
- V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.



Date of Report: 09/15/2021

David Conner

Tidewater Inc. - Powell

3761 Attucks Drive

Powell, OH 43065

Client Project: 3Q21

BCL Project: JPL- GW Monitoring Wells-CLP

BCL Work Order: 2123320

Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 7/21/2021. 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



21-23330

Page 1 of 1

Client: Tidewater, Inc.
 Attn: David Conner
 Street Address: 3761 Attucks Drive
 City: Powell State: OH Zip: 43065
 Phone: 614-298-5715 Fax: 614-792-2897
 Email: david.conner@tidew20.net
 Submission #:
 Project Description: JPL-GW Monitoring
 Project Code: 3021
 Sampler(s): Blaine Tech
 L. H. KROGERSON

Analysis Requested:
 Orthophosphate 365.1
 CI, NO3, NO2, SO4
 Hexavalent Cr6 - 218.6 (mg/L)
 Perchlorate
 TRM: Cr
 VOCs EPA 524.2

Sample #	Sample Description	Date	Time	Matrix*
-1	TB-3-072121	7/21/12	0800	L
-2	AG-17-4	0850		
-3	DUP-2-3421	0905		
-4	MU-17-3	1000		
-5	MU-17-2	1030		
-6	MU-18-5	1215		
-7	MU-18-4	1245		
-8	MU-18-3	1330		
-9	MU-18-2	1400		
-10	EB-3-072121	1410		

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 3-5 Day Rush Normal (10 - Days)
 Lab TAT Approval:
 *Additional Charges May Apply

CHK BY: DISTRIBUTION
 MBAS COT
 SUB OUT

Global ID:
 1. Relinquished By: [Signature] Date: 7/21/12 Time: 1430
 2. Relinquished By: [Signature] Date: 7/21/12 Time: 1430
 3. Relinquished By: [Signature] Date: 7/21/12 Time: 1430

Cost Center:
 1. Relinquished By: [Signature] Date: 7/21/12 Time: 1430
 2. Relinquished By: [Signature] Date: 7/21/12 Time: 1430
 3. Relinquished By: [Signature] Date: 7/21/12 Time: 1430

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)

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

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Laboratories, Inc.

Environmental Testing Laboratory Since 1949

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 2

Submission #: 2123320

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)		

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: 0.95 Container: PE Thermometer ID: 208 Date/Time: 7/21/15 Analyst Init: ENR

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES		DE	DE	DE	DE	DE	DE	DE	DE	DE
4oz / 8oz / 16oz PE UNPRES		F	F	F	F	F	F	F	F	F
2oz Cr ⁴		G	G	G	G	G	G	G	G	G
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
1oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 5M										
QT EPA 505/605.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
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: [Signature] Date/Time: 7-21-15



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

Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2123320-01	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: TB-3-072121 Sampled By: BTST	Receive Date: 07/21/2021 19:15 Sampling Date: 07/21/2021 08:00 Sample Depth: --- Lab Matrix: Water Sample Type: Trip Blank Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-3-072121 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

2123320-02	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: MW-17-4 Sampled By: BTST	Receive Date: 07/21/2021 19:15 Sampling Date: 07/21/2021 08:50 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-17-4 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

2123320-03	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: DUP-2-3Q21 Sampled By: BTST	Receive Date: 07/21/2021 19:15 Sampling Date: 07/21/2021 09:05 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): DUP-2-3Q21 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

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

Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2123320-04	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: MW-17-3 Sampled By: BTST	Receive Date: 07/21/2021 19:15 Sampling Date: 07/21/2021 10:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-17-3 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

2123320-05	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: MW-17-2 Sampled By: BTST	Receive Date: 07/21/2021 19:15 Sampling Date: 07/21/2021 10:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-17-2 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

2123320-06	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: MW-18-5 Sampled By: BTST	Receive Date: 07/21/2021 19:15 Sampling Date: 07/21/2021 12:15 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-18-5 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

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

Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2123320-07	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: MW-18-4 Sampled By: BTST	Receive Date: 07/21/2021 19:15 Sampling Date: 07/21/2021 12:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-18-4 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

2123320-08	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: MW-18-3 Sampled By: BTST	Receive Date: 07/21/2021 19:15 Sampling Date: 07/21/2021 13:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-18-3 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

2123320-09	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: MW-18-2 Sampled By: BTST	Receive Date: 07/21/2021 19:15 Sampling Date: 07/21/2021 14:00 Sample Depth: --- Lab Matrix: Water Sample Type: 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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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2123320-10	COC Number: ---	Receive Date: 07/21/2021 19:15
	Project Number: NASA/JPL	Sampling Date: 07/21/2021 14:10
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: EB-3-072121	Lab Matrix: Water
	Sampled By: BTST	Sample Type: Water
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): EB-3-072121
		Matrix: WG
		Sample QC Type (SACode): CS
	Cooler ID:	

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

Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123320-01	Client Sample Name: NASA/JPL, TB-3-072121, 7/21/2021 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: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123320-01	Client Sample Name: NASA/JPL, TB-3-072121, 7/21/2021 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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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123320-01	Client Sample Name: NASA/JPL, TB-3-072121, 7/21/2021 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		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		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)	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	07/30/21 12:00	07/31/21 00:38	MGC	MS-V5	1	B115815	EPA 524.2

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123320-01	Client Sample Name: NASA/JPL, TB-3-072121, 7/21/2021 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	07/30/21 12:00	07/31/21	00:38	MGC	MS-V5	1	B115815	EPA 524.2

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123320-02 Client Sample Name: NASA/JPL, MW-17-4, 7/21/2021 8:50:00AM

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	0.64	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: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123320-02		Client Sample Name: NASA/JPL, MW-17-4, 7/21/2021 8:50:00AM						
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	0.44	ug/L	0.50	0.23	EPA-524.2	ND	J	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	0.66	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: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123320-02	Client Sample Name: NASA/JPL, MW-17-4, 7/21/2021 8:50:00AM
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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		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)	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	07/30/21 12:00	07/31/21 01:02	MGC	MS-V5	1	B115815	EPA 524.2

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123320-02	Client Sample Name: NASA/JPL, MW-17-4, 7/21/2021 8:50:00AM
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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	07/30/21 12:00	07/31/21	01:02	MGC	MS-V5	1	B115815	EPA 524.2

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123320-02	Client Sample Name: NASA/JPL, MW-17-4, 7/21/2021 8:50:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	3.9	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/16/21 20:00	08/17/21 02:14	KB1	IC6	1	B117431	No Prep

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123320-02	Client Sample Name: NASA/JPL, MW-17-4, 7/21/2021 8:50:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0023	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Chromium	2.0	ug/L	3.0	0.50	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	07/26/21 18:00	07/27/21 11:45		ANK	IC-4	1	B115455	No Prep
2	EPA-200.8	08/01/21 15:20	08/02/21 08:38		KHS	PE-EL2	1	B115859	EPA 200.2

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123320-03	Client Sample Name: NASA/JPL, DUP-2-3Q21, 7/21/2021 9:05:00AM
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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	0.74	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: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123320-03	Client Sample Name: NASA/JPL, DUP-2-3Q21, 7/21/2021 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
Tetrachloroethene	0.50	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	0.80	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: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123320-03	Client Sample Name: NASA/JPL, DUP-2-3Q21, 7/21/2021 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		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)	99.7	%	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	07/30/21 12:00	07/31/21 01:27	MGC	MS-V5	1	B115815	EPA 524.2

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123320-03	Client Sample Name: NASA/JPL, DUP-2-3Q21, 7/21/2021 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	07/30/21 12:00	07/31/21	01:27	MGC	MS-V5	1	B115815	EPA 524.2

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123320-03	Client Sample Name: NASA/JPL, DUP-2-3Q21, 7/21/2021 9:05:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	4.4	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/16/21 20:00	08/17/21 03:15	KB1	IC6	1	B117431	No Prep

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123320-03	Client Sample Name: NASA/JPL, DUP-2-3Q21, 7/21/2021 9:05:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0024	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Chromium	1.8	ug/L	3.0	0.50	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	07/26/21 18:00	07/27/21 12:23		ANK	IC-4	1	B115455	No Prep
2	EPA-200.8	08/01/21 15:20	08/02/21 08:56		KHS	PE-EL2	1	B115859	EPA 200.2

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123320-04 Client Sample Name: NASA/JPL, MW-17-3, 7/21/2021 10:00:00AM

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	0.16	ug/L	0.50	0.14	EPA-524.2	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: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123320-04 Client Sample Name: NASA/JPL, MW-17-3, 7/21/2021 10:00:00AM

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	0.14	ug/L	0.50	0.12	EPA-524.2	ND	J	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	1.3	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: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123320-04	Client Sample Name: NASA/JPL, MW-17-3, 7/21/2021 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		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)	99.0	%	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	07/30/21 12:00	07/31/21 01:51	MGC	MS-V5	1	B115815	EPA 524.2

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123320-04	Client Sample Name: NASA/JPL, MW-17-3, 7/21/2021 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	07/30/21 12:00	07/31/21	01:51	MGC	MS-V5	1	B115815	EPA 524.2

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123320-04	Client Sample Name: NASA/JPL, MW-17-3, 7/21/2021 10:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/16/21 20:00	08/17/21 03:30	KB1	IC6	1	B117431	No Prep

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123320-04	Client Sample Name: NASA/JPL, MW-17-3, 7/21/2021 10:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	07/26/21 18:00	07/27/21 13:11		ANK	IC-4	1	B115455	No Prep
2	EPA-200.8	08/01/21 15:20	08/02/21 08:58		KHS	PE-EL2	1	B115859	EPA 200.2

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Powell, OH 43065

Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2123320-05	Client Sample Name:	NASA/JPL, MW-17-2, 7/21/2021 10:30:00AM						
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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Powell, OH 43065

Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2123320-05) and Client Sample Name (NASA/JPL, MW-17-2, 7/21/2021 10:30:00AM)

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: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123320-05	Client Sample Name: NASA/JPL, MW-17-2, 7/21/2021 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		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		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)	99.6	%	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	07/30/21 12:00	07/31/21 02:15	MGC	MS-V5	1	B115815	EPA 524.2

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123320-05	Client Sample Name: NASA/JPL, MW-17-2, 7/21/2021 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	07/30/21 12:00	07/31/21	02:15	MGC	MS-V5	1	B115815	EPA 524.2

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123320-05	Client Sample Name: NASA/JPL, MW-17-2, 7/21/2021 10:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/16/21 20:00	08/17/21 04:16	KB1	IC6	1	B117431	No Prep

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123320-05	Client Sample Name: NASA/JPL, MW-17-2, 7/21/2021 10:30:00AM
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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 Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	07/26/21 18:00	07/27/21 13:21		TMS	IC-4	1	B115455	No Prep
2	EPA-200.8	08/01/21 15:20	08/02/21 08:59		KHS	PE-EL2	1	B115859	EPA 200.2

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123320-06 Client Sample Name: NASA/JPL, MW-18-5, 7/21/2021 12:15:00PM

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: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123320-06 **Client Sample Name:** NASA/JPL, MW-18-5, 7/21/2021 12:15:00PM

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		1

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123320-06	Client Sample Name: NASA/JPL, MW-18-5, 7/21/2021 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		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)	99.4	%	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	07/30/21 12:00	07/31/21 02:39	MGC	MS-V5	1	B115815	EPA 524.2

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123320-06	Client Sample Name: NASA/JPL, MW-18-5, 7/21/2021 12:15:00PM
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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	07/30/21 12:00	07/31/21	02:39	MGC	MS-V5	1	B115815	EPA 524.2

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123320-06	Client Sample Name: NASA/JPL, MW-18-5, 7/21/2021 12:15:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/16/21 20:00	08/17/21 04:32	KB1	IC6	1	B117431	No Prep

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123320-07	Client Sample Name: NASA/JPL, MW-18-4, 7/21/2021 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	2.4	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	0.96	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: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123320-07		Client Sample Name: NASA/JPL, MW-18-4, 7/21/2021 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	0.76	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	1.0	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: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123320-07	Client Sample Name: NASA/JPL, MW-18-4, 7/21/2021 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		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)	99.3	%	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	07/30/21 12:00	07/31/21 03:04	MGC	MS-V5	1	B115815	EPA 524.2

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123320-07	Client Sample Name: NASA/JPL, MW-18-4, 7/21/2021 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	07/30/21 12:00	07/31/21	03:04	MGC	MS-V5	1	B115815	EPA 524.2

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123320-07	Client Sample Name: NASA/JPL, MW-18-4, 7/21/2021 12:45:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	14	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/16/21 20:00	08/17/21 04:47	KB1	IC6	1	B117431	No Prep

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123320-07	Client Sample Name: NASA/JPL, MW-18-4, 7/21/2021 12:45:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0034	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Chromium	3.1	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	07/26/21 18:00	07/27/21 13:31		ANK	IC-4	1	B115455	No Prep
2	EPA-200.8	08/01/21 15:20	08/02/21 09:01		KHS	PE-EL2	1	B115859	EPA 200.2

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123320-08 Client Sample Name: NASA/JPL, MW-18-3, 7/21/2021 1:30:00PM

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	0.23	ug/L	0.50	0.17	EPA-524.2	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: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123320-08 Client Sample Name: NASA/JPL, MW-18-3, 7/21/2021 1:30:00PM

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	0.17	ug/L	0.50	0.14	EPA-524.2	ND	J	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: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123320-08	Client Sample Name: NASA/JPL, MW-18-3, 7/21/2021 1:30:00PM
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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		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)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.2	%	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	07/30/21 12:00	07/31/21 03:28	MGC	MS-V5	1	B115815	EPA 524.2

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123320-08	Client Sample Name: NASA/JPL, MW-18-3, 7/21/2021 1:30:00PM
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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	07/30/21 12:00	07/31/21	03:28	MGC	MS-V5	1	B115815	EPA 524.2

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123320-08	Client Sample Name: NASA/JPL, MW-18-3, 7/21/2021 1:30:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/16/21 20:00	08/17/21 05:02	KB1	IC6	1	B117431	No Prep

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123320-08	Client Sample Name: NASA/JPL, MW-18-3, 7/21/2021 1:30:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0023	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Chromium	2.1	ug/L	3.0	0.50	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	07/26/21 18:00	07/27/21 13:40		ANK	IC-4	1	B115455	No Prep
2	EPA-200.8	08/01/21 15:20	08/02/21 09:02		KHS	PE-EL2	1	B115859	EPA 200.2

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2123320-09	Client Sample Name:	NASA/JPL, MW-18-2, 7/21/2021 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		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: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123320-09	Client Sample Name: NASA/JPL, MW-18-2, 7/21/2021 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		1

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123320-09	Client Sample Name: NASA/JPL, MW-18-2, 7/21/2021 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		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		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)	98.8	%	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	07/30/21 12:00	07/31/21 03:52	MGC	MS-V5	1	B115815	EPA 524.2

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123320-09	Client Sample Name: NASA/JPL, MW-18-2, 7/21/2021 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	07/30/21 12:00	07/31/21	03:52	MGC	MS-V5	1	B115815	EPA 524.2

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123320-09	Client Sample Name: NASA/JPL, MW-18-2, 7/21/2021 2:00:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/16/21 20:00	08/17/21 05:18	KB1	IC6	1	B117431	No Prep

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123320-09	Client Sample Name: NASA/JPL, MW-18-2, 7/21/2021 2:00:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000093	mg/L	0.00020	0.000020	EPA-218.6	ND	J	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	07/26/21 18:00	07/27/21 13:50		ANK	IC-4	1	B115455	No Prep
2	EPA-200.8	08/01/21 15:20	08/02/21 09:04		KHS	PE-EL2	1	B115859	EPA 200.2

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123320-10	Client Sample Name: NASA/JPL, EB-3-072121, 7/21/2021 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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Powell, OH 43065

Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123320-10	Client Sample Name: NASA/JPL, EB-3-072121, 7/21/2021 2:10:00PM
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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: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123320-10	Client Sample Name: NASA/JPL, EB-3-072121, 7/21/2021 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		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		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)	99.6	%	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	07/30/21 12:00	07/31/21 04:16	MGC	MS-V5	1	B115815	EPA 524.2

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123320-10	Client Sample Name: NASA/JPL, EB-3-072121, 7/21/2021 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	07/30/21 12:00	07/31/21	04:16	MGC	MS-V5	1	B115815	EPA 524.2

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123320-10	Client Sample Name: NASA/JPL, EB-3-072121, 7/21/2021 2:10:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/16/21 20:00	08/17/21 05:33	KB1	IC6	1	B117431	No Prep

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123320-10	Client Sample Name: NASA/JPL, EB-3-072121, 7/21/2021 2:10:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00018	mg/L	0.00020	0.000020	EPA-218.6	ND	J	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	07/26/21 18:00	07/27/21 13:59		ANK	IC-4	1	B115455	No Prep
2	EPA-200.8	08/01/21 15:20	08/02/21 09:05		KHS	PE-EL2	1	B115859	EPA 200.2

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
QC Batch ID: B115815						
Benzene	B115815-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B115815-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B115815-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B115815-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B115815-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B115815-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B115815-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B115815-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B115815-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B115815-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B115815-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B115815-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B115815-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B115815-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B115815-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B115815-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B115815-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B115815-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B115815-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B115815-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B115815-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B115815-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B115815-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B115815-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B115815-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B115815-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B115815-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B115815-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B115815-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B115815-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B115815-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B115815-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B115815-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B115815-BLK1	ND	ug/L	0.50	0.14	

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
QC Batch ID: B115815						
trans-1,3-Dichloropropene	B115815-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B115815-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B115815-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B115815-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B115815-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B115815-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B115815-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B115815-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B115815-BLK1	ND	ug/L	0.50	0.12	
Styrene	B115815-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B115815-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2,2-Tetrachloroethane	B115815-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B115815-BLK1	ND	ug/L	0.50	0.23	
Toluene	B115815-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B115815-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B115815-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B115815-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B115815-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B115815-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B115815-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B115815-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B115815-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B115815-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B115815-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B115815-BLK1	ND	ug/L	0.50	0.18	
Acetone	B115815-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B115815-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B115815-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B115815-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B115815-BLK1	ND	ug/L	2.0	2.0	
Carbon disulfide	B115815-BLK1	ND	ug/L	0.50	0.48	
trans-1,4-Dichloro-2-butene	B115815-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B115815-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B115815-BLK1	ND	ug/L	4.0	1.3	

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
QC Batch ID: B115815						
Ethyl t-butyl ether	B115815-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B115815-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B115815-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B115815-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B115815-BLK1	ND	ug/L	5.0	3.3	
Methyl iodide	B115815-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B115815-BLK1	ND	ug/L	5.0	2.4	
Methyl methacrylate	B115815-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B115815-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B115815-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B115815-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B115815-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B115815-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B115815-BLK1	102	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B115815-BLK1	101	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B115815-BLK1	103	%	80 - 120 (LCL - UCL)		

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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	
QC Batch ID: B115815										
Benzene	B115815-BS1	LCS	24.410	25.000	ug/L	97.6		70 - 130		
Bromodichloromethane	B115815-BS1	LCS	28.590	25.000	ug/L	114		70 - 130		
Chlorobenzene	B115815-BS1	LCS	24.680	25.000	ug/L	98.7		70 - 130		
Chloroethane	B115815-BS1	LCS	23.700	25.000	ug/L	94.8		70 - 130		
1,4-Dichlorobenzene	B115815-BS1	LCS	25.590	25.000	ug/L	102		70 - 130		
1,1-Dichloroethane	B115815-BS1	LCS	26.150	25.000	ug/L	105		70 - 130		
1,1-Dichloroethene	B115815-BS1	LCS	27.190	25.000	ug/L	109		70 - 130		
Toluene	B115815-BS1	LCS	25.120	25.000	ug/L	100		70 - 130		
Trichloroethene	B115815-BS1	LCS	24.780	25.000	ug/L	99.1		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B115815-BS1	LCS	10.810	10.000	ug/L	108		75 - 125		
Toluene-d8 (Surrogate)	B115815-BS1	LCS	9.9900	10.000	ug/L	99.9		80 - 120		
4-Bromofluorobenzene (Surrogate)	B115815-BS1	LCS	10.090	10.000	ug/L	101		80 - 120		

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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	
QC Batch ID: B115815		Used client sample: N								
Benzene	MS	2123497-08	ND	25.030	25.000	ug/L		100		70 - 130
	MSD	2123497-08	ND	24.740	25.000	ug/L	1.2	99.0	20	70 - 130
Bromodichloromethane	MS	2123497-08	ND	29.400	25.000	ug/L		118		70 - 130
	MSD	2123497-08	ND	30.450	25.000	ug/L	3.5	122	20	70 - 130
Chlorobenzene	MS	2123497-08	ND	24.110	25.000	ug/L		96.4		70 - 130
	MSD	2123497-08	ND	25.260	25.000	ug/L	4.7	101	20	70 - 130
Chloroethane	MS	2123497-08	ND	24.090	25.000	ug/L		96.4		70 - 130
	MSD	2123497-08	ND	24.060	25.000	ug/L	0.1	96.2	20	70 - 130
1,4-Dichlorobenzene	MS	2123497-08	ND	25.640	25.000	ug/L		103		70 - 130
	MSD	2123497-08	ND	26.130	25.000	ug/L	1.9	105	20	70 - 130
1,1-Dichloroethane	MS	2123497-08	ND	26.500	25.000	ug/L		106		70 - 130
	MSD	2123497-08	ND	26.230	25.000	ug/L	1.0	105	20	70 - 130
1,1-Dichloroethene	MS	2123497-08	ND	28.020	25.000	ug/L		112		70 - 130
	MSD	2123497-08	ND	27.630	25.000	ug/L	1.4	111	20	70 - 130
Toluene	MS	2123497-08	ND	25.060	25.000	ug/L		100		70 - 130
	MSD	2123497-08	ND	27.100	25.000	ug/L	7.8	108	20	70 - 130
Trichloroethene	MS	2123497-08	ND	24.340	25.000	ug/L		97.4		70 - 130
	MSD	2123497-08	ND	25.050	25.000	ug/L	2.9	100	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	2123497-08	ND	10.910	10.000	ug/L		109		75 - 125
	MSD	2123497-08	ND	10.500	10.000	ug/L	3.8	105		75 - 125
Toluene-d8 (Surrogate)	MS	2123497-08	ND	9.9300	10.000	ug/L		99.3		80 - 120
	MSD	2123497-08	ND	10.420	10.000	ug/L	4.8	104		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	2123497-08	ND	10.070	10.000	ug/L		101		80 - 120
	MSD	2123497-08	ND	10.170	10.000	ug/L	1.0	102		80 - 120

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

Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
QC Batch ID: B115815						
Chloroacetonitrile	B115815-BLK1	0	ug/L			
1-Chlorobutane	B115815-BLK1	0	ug/L			
1,1-Dichloropropanone	B115815-BLK1	0	ug/L			
Methyl acrylate	B115815-BLK1	0	ug/L			
Nitrobenzene	B115815-BLK1	0	ug/L			
2-Nitropropane	B115815-BLK1	0	ug/L			

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
QC Batch ID: B117431						
Perchlorate	B117431-BLK1	ND	ug/L	2.0	0.81	

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Powell, OH 43065

Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
								Percent Recovery	RPD	
QC Batch ID: B117431										
Perchlorate	B117431-BS1	LCS	9.9433	10.000	ug/L	99.4		85	115	

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Powell, OH 43065

Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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	RPD	
QC Batch ID: B117431		Used client sample: Y - Description: MW-17-4, 07/21/2021 08:50								
Perchlorate	DUP	2123320-02	3.9437	3.9142		ug/L	0.8		15	
	MS	2123320-02	3.9437	13.108	10.101	ug/L		90.7		80 - 120
	MSD	2123320-02	3.9437	12.697	10.101	ug/L	3.2	86.7	15	80 - 120

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B115455						
Hexavalent Chromium	B115455-BLK1	ND	mg/L	0.00020	0.000020	
QC Batch ID: B115859						
Total Recoverable Chromium	B115859-BLK1	ND	ug/L	3.0	0.50	

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Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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	
QC Batch ID: B115455										
Hexavalent Chromium	B115455-BS1	LCS	0.020839	0.020000	mg/L	104		90 - 110		
QC Batch ID: B115859										
Total Recoverable Chromium	B115859-BS1	LCS	41.718	40.000	ug/L	104		85 - 115		

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Tidewater Inc. - Powell
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Powell, OH 43065

Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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	RPD	
QC Batch ID: B115455		Used client sample: Y - Description: MW-17-4, 07/21/2021 08:50								
Hexavalent Chromium	DUP	2123320-02	0.0023170	0.0023240		mg/L	0.3		10	
	MS	2123320-02	0.0023170	0.022631	0.020202	mg/L		101		90 - 110
	MSD	2123320-02	0.0023170	0.022833	0.020202	mg/L	0.9	102	10	90 - 110
QC Batch ID: B115859		Used client sample: Y - Description: MW-17-4, 07/21/2021 08:50								
Total Recoverable Chromium	DUP	2123320-02	2.0010	1.9220		ug/L	4.0		20	J
	MS	2123320-02	2.0010	43.037	40.000	ug/L		103		70 - 130
	MSD	2123320-02	2.0010	41.275	40.000	ug/L	4.2	98.2	20	70 - 130

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Powell, OH 43065

Reported: 09/15/2021 14:20
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.



Date of Report: 08/25/2021

David Conner

Tidewater Inc. - Powell

3761 Attucks Drive

Powell, OH 43065

Client Project: 3Q21

BCL Project: JPL- GW Monitoring Wells-CLP

BCL Work Order: 2123497

Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 7/22/2021. 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. Chain of Custody Form

Report To: Tidewater, Inc. Client: Tidewater
 Client: David Conner
 Address: 3761 Allucks Drive
 City: Powell State: OH Zip: 43065
 Phone: 626 298 5715 Fax: 614 792 2897
 Email Address: david.conner@tideh2o.net
 Submission #: _____

Project Description: JPL-GW Monitoring
 Project Code: 3021
 Sampler(s): Blaine Tech
 L. Henderson

Analysis Requested:
 VOCs EPA 5242
 TRM: Cr
 Perchlorate
 Hexvalent Cr6 -218.6 (mg/L)
 Cl, NO3, NO2, SO4
 Orthophosphate 365.1

Are there any tests with holding times? less than or equal to 48 hours?
 Yes No
 *Standard Turnaround = 10

Notes:
 CHK BY: DISTRIBUTION
 MS/MSD
 SHORT HOLDING TIME
 MISCELLANEOUS

Sample #	Sample Description	Date	Time	Matrix*
-1	MW-24-4	7/22/05	0905	L
-2	DUP-3-3021	0910		
-3	MU-24-3	0940		
-4	MU-24-2	1030		
-5	MU-24-1	1045		
-6	TR-4-072221	0800		
-7	MU-22-2	1300		
-8	MU-22-2	1340		
-9	AU-22-1	1440		
-10	EB-4-072221	1445		

Matrix Types: S = Soil SL = Sludge DW = Drinking Water WW = Wastewater L = Liquid
 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 GC)

Global ID: _____
 1. Received By: _____ Date: 7/22/05 Time: 1500
 2. Relinquished By: _____ Date: 7/22/05 Time: 1800
 3. Relinquished By: _____ Date: 7/22/05 Time: 1820

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

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Laboratories, Inc.

Environmental Testing Laboratory Since 1949

Submission #: 21-23497

SHIPPING INFORMATION 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) _____		SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID 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: 0.95 Container: PE Thermometer ID: 208 Date/Time 7/23/21 1820
 Temperature: (A) 2.2 °C / (C) 2.1 °C Analyst Init PPE

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES			EF	EF	EF		EF	I-L		EF
2oz Cr ⁶⁺	A	A	D	D	D		D	GH		D
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz	B	B	G	G	G		G	MN		G
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
3oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK						A				
40ml VOA VIAL			A-C	A-C	A-C		A-C	A-F		A-C
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
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 - 9
 Sample Numbering Completed By: PPE Date/Time: 7/23/21 2040
 A = Actual / C = Corrected

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

Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2123497-01	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: MW-24-4 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/22/2021 18:20 Sampling Date: 07/22/2021 09:05 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-24-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

2123497-02	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: DUP-3-3Q21 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/22/2021 18:20 Sampling Date: 07/22/2021 09:10 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): DUP-3-3Q21 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

2123497-03	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: MW-24-3 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/22/2021 18:20 Sampling Date: 07/22/2021 09:40 Sample Depth: --- Lab Matrix: Water Sample Type: 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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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2123497-04	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: MW-24-2 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/22/2021 18:20 Sampling Date: 07/22/2021 10:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-24-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

2123497-05	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: MW-24-1 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/22/2021 18:20 Sampling Date: 07/22/2021 10:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-24-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

2123497-06	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: TB-4-072221 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/22/2021 18:20 Sampling Date: 07/22/2021 08:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-4-072221 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

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Tidewater Inc. - Powell
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Powell, OH 43065

Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2123497-07	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: MW-22-3 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/22/2021 18:20 Sampling Date: 07/22/2021 13:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-22-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

2123497-08	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: MW-22-2 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/22/2021 18:20 Sampling Date: 07/22/2021 13:40 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-22-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

2123497-09	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: MW-22-1 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/22/2021 18:20 Sampling Date: 07/22/2021 14:40 Sample Depth: --- Lab Matrix: Water Sample Type: 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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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2123497-10	COC Number: ---	Receive Date: 07/22/2021 18:20
	Project Number: NASA/JPL	Sampling Date: 07/22/2021 14:45
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: EB-4-072221	Lab Matrix: Water
	Sampled By: Blaine Tech - L. Henderson of BTST	Sample Type: Water
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): EB-4-072221
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

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

Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123497-01	Client Sample Name: NASA/JPL, MW-24-4, 7/22/2021 9:05:00AM, Blaine Tech - L. Henderson
----------------------------------	---

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 Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/03/21 08:36	08/03/21 15:27		KB1	IC-4	1	B115962	No Prep
2	EPA-200.8	08/02/21 21:25	08/03/21 16:50		ARD	PE-EL2	1	B115970	EPA 200.2

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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123497-02	Client Sample Name: NASA/JPL, DUP-3-3Q21, 7/22/2021 9:10:00AM, Blaine Tech - L. Henderson
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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 Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/03/21 08:36	08/03/21 15:37		KB1	IC-4	1	B115962	No Prep
2	EPA-200.8	08/02/21 21:25	08/03/21 12:47		EAR	PE-EL2	1	B115971	EPA 200.2

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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2123497-03	Client Sample Name:	NASA/JPL, MW-24-3, 7/22/2021 9:40:00AM, 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		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	0.18	ug/L	0.50	0.15	EPA-524.2	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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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123497-03	Client Sample Name: NASA/JPL, MW-24-3, 7/22/2021 9:40:00AM, 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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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123497-03	Client Sample Name: NASA/JPL, MW-24-3, 7/22/2021 9:40:00AM, 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		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)	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	07/30/21 12:00	07/31/21 04:40	MGC	MS-V5	1	B115815	EPA 524.2

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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123497-03	Client Sample Name: NASA/JPL, MW-24-3, 7/22/2021 9:40:00AM, 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	07/30/21 12:00	07/31/21	04:40	MGC	MS-V5	1	B115815	EPA 524.2

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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123497-03	Client Sample Name: NASA/JPL, MW-24-3, 7/22/2021 9:40:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/18/21 23:00	08/19/21 10:42	ANK	IC6	1	B117583	No Prep

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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123497-03	Client Sample Name: NASA/JPL, MW-24-3, 7/22/2021 9:40:00AM, Blaine Tech - L. Henderson							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Chromium	0.52	ug/L	3.0	0.50	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	08/03/21 08:36	08/03/21 15:46		KB1	IC-4	1	B115962	No Prep
2	EPA-200.8	08/03/21 21:35	08/04/21 10:10		KHS	PE-EL2	1	B116071	EPA 200.2

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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123497-04	Client Sample Name: NASA/JPL, MW-24-2, 7/22/2021 10:30:00AM, 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		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	0.59	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: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123497-04	Client Sample Name: NASA/JPL, MW-24-2, 7/22/2021 10:30:00AM, 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: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123497-04	Client Sample Name: NASA/JPL, MW-24-2, 7/22/2021 10:30:00AM, 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		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)	99.5	%	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	07/30/21 12:00	07/31/21 05:05	MGC	MS-V5	1	B115815	EPA 524.2

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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123497-04	Client Sample Name: NASA/JPL, MW-24-2, 7/22/2021 10:30:00AM, 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	07/30/21 12:00	07/31/21	05:05	MGC	MS-V5	1	B115815	EPA 524.2

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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123497-04	Client Sample Name: NASA/JPL, MW-24-2, 7/22/2021 10:30:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	8.7	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/18/21 23:00	08/19/21 10:57	ANK	IC6	1	B117583	No Prep

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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123497-04	Client Sample Name: NASA/JPL, MW-24-2, 7/22/2021 10:30:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0023	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Chromium	2.0	ug/L	3.0	0.50	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	08/03/21 08:36	08/03/21	15:56	KB1	IC-4	1	B115962	No Prep
2	EPA-200.8	08/03/21 21:35	08/04/21	10:11	KHS	PE-EL2	1	B116071	EPA 200.2

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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123497-05	Client Sample Name: NASA/JPL, MW-24-1, 7/22/2021 10:45:00AM, 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	0.28	ug/L	0.50	0.20	EPA-524.2	ND	J	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	2.3	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: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123497-05	Client Sample Name: NASA/JPL, MW-24-1, 7/22/2021 10:45:00AM, 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: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123497-05	Client Sample Name: NASA/JPL, MW-24-1, 7/22/2021 10:45:00AM, 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		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)	96.0	%	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	07/30/21 12:00	07/31/21 05:29	MGC	MS-V5	1	B115815	EPA 524.2

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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123497-05	Client Sample Name: NASA/JPL, MW-24-1, 7/22/2021 10:45:00AM, 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	07/30/21 12:00	07/31/21	05:29	MGC	MS-V5	1	B115815	EPA 524.2

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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123497-05	Client Sample Name: NASA/JPL, MW-24-1, 7/22/2021 10:45:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride	76	mg/L	0.50	0.13	EPA-300.0	0.18		1
Nitrate as N	2.0	mg/L	0.10	0.024	EPA-300.0	ND		1
Sulfate	50	mg/L	1.0	0.14	EPA-300.0	ND		1
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		2
Perchlorate	140	ug/L	20	8.1	EPA-314.0	ND	A10	3
ortho-Phosphate as P	ND	mg/L	0.050	0.017	EPA-365.1	ND		4

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-300.0	07/23/21 13:00	07/23/21	19:24	KB1	IC8	1	B115165	No Prep
2	EPA-353.2	07/23/21 10:00	07/23/21	10:17	MC1	KONE-1	1	B115364	No Prep
3	EPA-314.0	08/18/21 23:00	08/19/21	19:54	KB1	IC6	10	B117583	No Prep
4	EPA-365.1	07/23/21 10:00	07/23/21	10:43	MC1	SC-2	1	B115374	No Prep

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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123497-05	Client Sample Name: NASA/JPL, MW-24-1, 7/22/2021 10:45:00AM, Blaine Tech - L. Henderson
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Chromium	1.4	ug/L	3.0	0.50	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	08/03/21 08:36	08/03/21 16:46		KB1	IC-4	1	B115962	No Prep
2	EPA-200.8	08/03/21 21:35	08/04/21 10:13		KHS	PE-EL2	1	B116071	EPA 200.2

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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123497-06	Client Sample Name: NASA/JPL, TB-4-072221, 7/22/2021 8:00:00AM, 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		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: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123497-06	Client Sample Name: NASA/JPL, TB-4-072221, 7/22/2021 8:00:00AM, 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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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123497-06	Client Sample Name: NASA/JPL, TB-4-072221, 7/22/2021 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		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)	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	07/30/21 12:00	07/31/21 05:53	MGC	MS-V5	1	B115815	EPA 524.2

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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123497-06	Client Sample Name: NASA/JPL, TB-4-072221, 7/22/2021 8:00:00AM, 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	07/30/21 12:00	07/31/21	05:53	MGC	MS-V5	1	B115815	EPA 524.2

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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123497-07	Client Sample Name: NASA/JPL, MW-22-3, 7/22/2021 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		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: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123497-07	Client Sample Name: NASA/JPL, MW-22-3, 7/22/2021 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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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123497-07	Client Sample Name: NASA/JPL, MW-22-3, 7/22/2021 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		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)	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	07/30/21 12:00	07/31/21 06:17	MGC	MS-V5	1	B115815	EPA 524.2

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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123497-07	Client Sample Name: NASA/JPL, MW-22-3, 7/22/2021 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	07/30/21 12:00	07/31/21	06:17	MGC	MS-V5	1	B115815	EPA 524.2

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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123497-07	Client Sample Name: NASA/JPL, MW-22-3, 7/22/2021 1:00:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.8	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/18/21 23:00	08/19/21 20:09	KB1	IC6	1	B117583	No Prep

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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123497-07	Client Sample Name: NASA/JPL, MW-22-3, 7/22/2021 1:00:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0016	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Chromium	1.5	ug/L	3.0	0.50	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	08/03/21 08:36	08/03/21 16:56		KB1	IC-4	1	B115962	No Prep
2	EPA-200.8	08/03/21 21:35	08/04/21 10:14		KHS	PE-EL2	1	B116071	EPA 200.2

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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123497-08	Client Sample Name: NASA/JPL, MW-22-2, 7/22/2021 1:40:00PM, 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		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: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2123497-08) and Client Sample Name (NASA/JPL, MW-22-2, 7/22/2021 1:40:00PM, Blaine Tech - L. Henderson)

Main data table with 9 columns: Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quads, Run #. Lists various VOCs like cis-1,3-Dichloropropene, Ethylbenzene, etc.

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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123497-08	Client Sample Name: NASA/JPL, MW-22-2, 7/22/2021 1:40:00PM, 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		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)	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	07/30/21 12:00	07/31/21 06:41	MGC	MS-V5	1	B115815	EPA 524.2

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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123497-08	Client Sample Name: NASA/JPL, MW-22-2, 7/22/2021 1:40:00PM, 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	07/30/21 12:00	07/31/21	06:41	MGC	MS-V5	1	B115815	EPA 524.2

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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123497-08	Client Sample Name: NASA/JPL, MW-22-2, 7/22/2021 1:40:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.3	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/18/21 23:00	08/19/21 09:40	ANK	IC6	1	B117583	No Prep

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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123497-08	Client Sample Name: NASA/JPL, MW-22-2, 7/22/2021 1:40:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0022	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Chromium	2.1	ug/L	3.0	0.50	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	08/03/21 08:36	08/03/21 14:49		KB1	IC-4	1	B115962	No Prep
2	EPA-200.8	08/03/21 21:35	08/04/21 09:45		KHS	PE-EL2	1	B116071	EPA 200.2

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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123497-10	Client Sample Name: NASA/JPL, EB-4-072221, 7/22/2021 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		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: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123497-10	Client Sample Name: NASA/JPL, EB-4-072221, 7/22/2021 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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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123497-10	Client Sample Name: NASA/JPL, EB-4-072221, 7/22/2021 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		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)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.4	%	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	07/30/21 12:00	07/31/21 07:05	MGC	MS-V5	1	B115815	EPA 524.2

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Tidewater Inc. - Powell
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Powell, OH 43065

Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123497-10	Client Sample Name: NASA/JPL, EB-4-072221, 7/22/2021 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	07/30/21 12:00	07/31/21	07:05	MGC	MS-V5	1	B115815	EPA 524.2

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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123497-10	Client Sample Name: NASA/JPL, EB-4-072221, 7/22/2021 2:45:00PM, Blaine Tech - L. Henderson
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/18/21 23:00	08/19/21 12:54	KB1	IC6	1	B117583	No Prep

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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123497-10	Client Sample Name: NASA/JPL, EB-4-072221, 7/22/2021 2:45:00PM, Blaine Tech - L. Henderson
----------------------------------	---

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 Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/03/21 08:36	08/03/21 17:05		KB1	IC-4	1	B115962	No Prep
2	EPA-200.8	08/03/21 21:35	08/04/21 10:16		KHS	PE-EL2	1	B116071	EPA 200.2

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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
QC Batch ID: B115815						
Benzene	B115815-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B115815-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B115815-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B115815-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B115815-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B115815-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B115815-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B115815-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B115815-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B115815-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B115815-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B115815-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B115815-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B115815-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B115815-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B115815-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B115815-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B115815-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B115815-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B115815-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B115815-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B115815-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B115815-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B115815-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B115815-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B115815-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B115815-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B115815-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B115815-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B115815-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B115815-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B115815-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B115815-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B115815-BLK1	ND	ug/L	0.50	0.14	

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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
QC Batch ID: B115815						
trans-1,3-Dichloropropene	B115815-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B115815-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B115815-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B115815-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B115815-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B115815-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B115815-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B115815-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B115815-BLK1	ND	ug/L	0.50	0.12	
Styrene	B115815-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B115815-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2,2-Tetrachloroethane	B115815-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B115815-BLK1	ND	ug/L	0.50	0.23	
Toluene	B115815-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B115815-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B115815-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B115815-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B115815-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B115815-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B115815-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B115815-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B115815-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B115815-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B115815-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B115815-BLK1	ND	ug/L	0.50	0.18	
Acetone	B115815-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B115815-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B115815-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B115815-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B115815-BLK1	ND	ug/L	2.0	2.0	
Carbon disulfide	B115815-BLK1	ND	ug/L	0.50	0.48	
trans-1,4-Dichloro-2-butene	B115815-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B115815-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B115815-BLK1	ND	ug/L	4.0	1.3	

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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
QC Batch ID: B115815						
Ethyl t-butyl ether	B115815-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B115815-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B115815-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B115815-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B115815-BLK1	ND	ug/L	5.0	3.3	
Methyl iodide	B115815-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B115815-BLK1	ND	ug/L	5.0	2.4	
Methyl methacrylate	B115815-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B115815-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B115815-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B115815-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B115815-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B115815-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B115815-BLK1	102	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B115815-BLK1	101	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B115815-BLK1	103	%	80 - 120 (LCL - UCL)		

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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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	
QC Batch ID: B115815										
Benzene	B115815-BS1	LCS	24.410	25.000	ug/L	97.6		70 - 130		
Bromodichloromethane	B115815-BS1	LCS	28.590	25.000	ug/L	114		70 - 130		
Chlorobenzene	B115815-BS1	LCS	24.680	25.000	ug/L	98.7		70 - 130		
Chloroethane	B115815-BS1	LCS	23.700	25.000	ug/L	94.8		70 - 130		
1,4-Dichlorobenzene	B115815-BS1	LCS	25.590	25.000	ug/L	102		70 - 130		
1,1-Dichloroethane	B115815-BS1	LCS	26.150	25.000	ug/L	105		70 - 130		
1,1-Dichloroethene	B115815-BS1	LCS	27.190	25.000	ug/L	109		70 - 130		
Toluene	B115815-BS1	LCS	25.120	25.000	ug/L	100		70 - 130		
Trichloroethene	B115815-BS1	LCS	24.780	25.000	ug/L	99.1		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B115815-BS1	LCS	10.810	10.000	ug/L	108		75 - 125		
Toluene-d8 (Surrogate)	B115815-BS1	LCS	9.9900	10.000	ug/L	99.9		80 - 120		
4-Bromofluorobenzene (Surrogate)	B115815-BS1	LCS	10.090	10.000	ug/L	101		80 - 120		

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Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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	
QC Batch ID: B115815		Used client sample: Y - Description: MW-22-2, 07/22/2021 13:40								
Benzene	MS	2123497-08	ND	25.030	25.000	ug/L		100		70 - 130
	MSD	2123497-08	ND	24.740	25.000	ug/L	1.2	99.0	20	70 - 130
Bromodichloromethane	MS	2123497-08	ND	29.400	25.000	ug/L		118		70 - 130
	MSD	2123497-08	ND	30.450	25.000	ug/L	3.5	122	20	70 - 130
Chlorobenzene	MS	2123497-08	ND	24.110	25.000	ug/L		96.4		70 - 130
	MSD	2123497-08	ND	25.260	25.000	ug/L	4.7	101	20	70 - 130
Chloroethane	MS	2123497-08	ND	24.090	25.000	ug/L		96.4		70 - 130
	MSD	2123497-08	ND	24.060	25.000	ug/L	0.1	96.2	20	70 - 130
1,4-Dichlorobenzene	MS	2123497-08	ND	25.640	25.000	ug/L		103		70 - 130
	MSD	2123497-08	ND	26.130	25.000	ug/L	1.9	105	20	70 - 130
1,1-Dichloroethane	MS	2123497-08	ND	26.500	25.000	ug/L		106		70 - 130
	MSD	2123497-08	ND	26.230	25.000	ug/L	1.0	105	20	70 - 130
1,1-Dichloroethene	MS	2123497-08	ND	28.020	25.000	ug/L		112		70 - 130
	MSD	2123497-08	ND	27.630	25.000	ug/L	1.4	111	20	70 - 130
Toluene	MS	2123497-08	ND	25.060	25.000	ug/L		100		70 - 130
	MSD	2123497-08	ND	27.100	25.000	ug/L	7.8	108	20	70 - 130
Trichloroethene	MS	2123497-08	ND	24.340	25.000	ug/L		97.4		70 - 130
	MSD	2123497-08	ND	25.050	25.000	ug/L	2.9	100	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	2123497-08	ND	10.910	10.000	ug/L		109		75 - 125
	MSD	2123497-08	ND	10.500	10.000	ug/L	3.8	105		75 - 125
Toluene-d8 (Surrogate)	MS	2123497-08	ND	9.9300	10.000	ug/L		99.3		80 - 120
	MSD	2123497-08	ND	10.420	10.000	ug/L	4.8	104		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	2123497-08	ND	10.070	10.000	ug/L		101		80 - 120
	MSD	2123497-08	ND	10.170	10.000	ug/L	1.0	102		80 - 120

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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
QC Batch ID: B115815						
Chloroacetonitrile	B115815-BLK1	0	ug/L			
1-Chlorobutane	B115815-BLK1	0	ug/L			
1,1-Dichloropropanone	B115815-BLK1	0	ug/L			
Methyl acrylate	B115815-BLK1	0	ug/L			
Nitrobenzene	B115815-BLK1	0	ug/L			
2-Nitropropane	B115815-BLK1	0	ug/L			

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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
QC Batch ID: B115165						
Chloride	B115165-BLK1	0.17500	mg/L	0.50	0.13	J
Nitrate as N	B115165-BLK1	ND	mg/L	0.10	0.024	
Sulfate	B115165-BLK1	ND	mg/L	1.0	0.14	
QC Batch ID: B115364						
Nitrite as N	B115364-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: B115374						
ortho-Phosphate as P	B115374-BLK1	ND	mg/L	0.050	0.017	
QC Batch ID: B117583						
Perchlorate	B117583-BLK1	ND	ug/L	2.0	0.81	

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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
								Percent Recovery	RPD	
QC Batch ID: B115165										
Chloride	B115165-BS1	LCS	51.722	50.000	mg/L	103		90 - 110		
Nitrate as N	B115165-BS1	LCS	5.1200	5.0000	mg/L	102		90 - 110		
Sulfate	B115165-BS1	LCS	102.98	100.00	mg/L	103		90 - 110		
QC Batch ID: B115364										
Nitrite as N	B115364-BS1	LCS	0.49522	0.50000	mg/L	99.0		90 - 110		
QC Batch ID: B115374										
ortho-Phosphate as P	B115374-BS1	LCS	0.51280	0.50000	mg/L	103		90 - 110		
QC Batch ID: B117583										
Perchlorate	B117583-BS1	LCS	9.2852	10.000	ug/L	92.9		85 - 115		

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Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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	
QC Batch ID: B115165		Used client sample: N								
Chloride	DUP	:123496-01RE'	63.364	63.208		mg/L	0.2		10	
	MS	:123496-01RE'	63.364	174.67	101.01	mg/L		110		80 - 120
	MSD	:123496-01RE'	63.364	175.39	101.01	mg/L	0.4	111	10	80 - 120
Nitrate as N	DUP	:123496-01RE'	22.068	22.072		mg/L	0.0		10	
	MS	:123496-01RE'	22.068	32.420	10.101	mg/L		102		80 - 120
	MSD	:123496-01RE'	22.068	32.539	10.101	mg/L	0.4	104	10	80 - 120
Sulfate	DUP	:123496-01RE'	277.41	278.43		mg/L	0.4		10	
	MS	:123496-01RE'	277.41	493.28	202.02	mg/L		107		80 - 120
	MSD	:123496-01RE'	277.41	494.34	202.02	mg/L	0.2	107	10	80 - 120
QC Batch ID: B115364		Used client sample: N								
Nitrite as N	DUP	2123368-01	ND	ND		mg/L			10	
	MS	2123368-01	ND	0.52494	0.52632	mg/L		99.7		90 - 110
	MSD	2123368-01	ND	0.51451	0.52632	mg/L	2.0	97.8	10	90 - 110
QC Batch ID: B115374		Used client sample: Y - Description: MW-24-1, 07/22/2021 10:45								
ortho-Phosphate as P	DUP	2123497-05	ND	ND		mg/L			10	
	MS	2123497-05	ND	0.55537	0.52632	mg/L		106		90 - 110
	MSD	2123497-05	ND	0.55684	0.52632	mg/L	0.3	106	10	90 - 110
QC Batch ID: B117583		Used client sample: Y - Description: MW-22-2, 07/22/2021 13:40								
Perchlorate	DUP	2123497-08	2.3079	2.7845		ug/L	18.7		15	A02
	MS	2123497-08	2.3079	10.700	10.101	ug/L		83.1		80 - 120
	MSD	2123497-08	2.3079	10.608	10.101	ug/L	0.9	82.2	15	80 - 120

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

Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B115962						
Hexavalent Chromium	B115962-BLK1	ND	mg/L	0.00020	0.000020	
QC Batch ID: B115970						
Total Recoverable Chromium	B115970-BLK1	ND	ug/L	3.0	0.50	
QC Batch ID: B115971						
Total Recoverable Chromium	B115971-BLK1	ND	ug/L	3.0	0.50	
QC Batch ID: B116071						
Total Recoverable Chromium	B116071-BLK1	ND	ug/L	3.0	0.50	

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Powell, OH 43065

Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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	
QC Batch ID: B115962										
Hexavalent Chromium	B115962-BS1	LCS	0.019260	0.020000	mg/L	96.3		90 - 110		
QC Batch ID: B115970										
Total Recoverable Chromium	B115970-BS1	LCS	40.384	40.000	ug/L	101		85 - 115		
QC Batch ID: B115971										
Total Recoverable Chromium	B115971-BS1	LCS	41.787	40.000	ug/L	104		85 - 115		
QC Batch ID: B116071										
Total Recoverable Chromium	B116071-BS1	LCS	41.160	40.000	ug/L	103		85 - 115		

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

Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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	
QC Batch ID: B115962		Used client sample: Y - Description: MW-22-2, 07/22/2021 13:40								
Hexavalent Chromium	DUP	:123497-08RE	0.0022150	0.0022150		mg/L	0		10	
	MS	:123497-08RE	0.0022150	0.022166	0.020202	mg/L		98.8		90 - 110
	MSD	:123497-08RE	0.0022150	0.022086	0.020202	mg/L	0.4	98.4	10	90 - 110
QC Batch ID: B115970		Used client sample: Y - Description: MW-24-4, 07/22/2021 09:05								
Total Recoverable Chromium	DUP	2123497-01	ND	ND		ug/L			20	
	MS	2123497-01	ND	39.619	40.000	ug/L		99.0		70 - 130
	MSD	2123497-01	ND	39.177	40.000	ug/L	1.1	97.9	20	70 - 130
QC Batch ID: B115971		Used client sample: Y - Description: DUP-3-3Q21, 07/22/2021 09:10								
Total Recoverable Chromium	DUP	2123497-02	ND	ND		ug/L			20	
	MS	2123497-02	ND	42.389	40.000	ug/L		106		70 - 130
	MSD	2123497-02	ND	34.407	40.000	ug/L	20.8	86.0	20	70 - 130 Q02
QC Batch ID: B116071		Used client sample: Y - Description: MW-22-2, 07/22/2021 13:40								
Total Recoverable Chromium	DUP	2123497-08	2.0960	1.8050		ug/L	14.9		20	J
	MS	2123497-08	2.0960	41.379	40.000	ug/L		98.2		70 - 130
	MSD	2123497-08	2.0960	40.826	40.000	ug/L	1.3	96.8	20	70 - 130

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

Reported: 08/25/2021 17:14
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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.
- A10 Detection and quantitation limits were raised due to matrix interference.
- Q02 Matrix spike precision is not within the control limits.
- V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.



Date of Report: 09/15/2021

David Conner

Tidewater Inc. - Powell

3761 Attucks Drive
Powell, OH 43065

Client Project: 3Q21
BCL Project: JPL- GW Monitoring Wells-CLP
BCL Work Order: 2123649
Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 7/23/2021. 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



21-23649

Page 1 of 1

Report To: Tidewater, Inc.
 Client: David Conner
 Street Address: 3761 Attucks Drive
 City: Powell State: OH Zip: 43065
 Phone: 626 | 298 - 5715 Fax: 614 | 792 - 2897
 Email Address: david.conner@tidesh2o.net
 Submission #: _____

Project Description: JPL-GW Monitoring
 Project Code: 3Q21
 Sampler(s): Blaine Tech
 L. Hunt
 B. Con

Analysis Requested
 Orthophosphate 365.1
 CI, NO3, NO2, SO4
 Hexavalent Cr6 - 218.6 (mg/L)
 Perchlorate
 TRM: C
 VOCs EPA 524.2

Sample #	Sample Description	Date	Time	Matrix*
-1	TB-5-072321	7/23/21	08:00	W
-2	MU-23-4	7/23/21	08:50	W
-3	MU-23-3	7/23/21	09:20	W
-4	DUP-4-3Q21	7/23/21	09:50	W
-5	MU-23-2	7/23/21	10:15	W
-6	MU-26-1	7/23/21	11:30	W
-7	EB-5-072321	7/23/21	12:40	W

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. Received By: [Signature] Date: 7/23/21 Time: 13:00
 2. Relinquished By: [Signature] Date: 7/23/21 Time: 18:10
 3. Relinquished By: [Signature] Date: 7/25/21 Time: 18:10

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
 SHORT HOLDING TIME
 NO3 NO2 OP SS
 Cl. SO4 MBAS COT
 DISTRIBUTION
 NP NP NO
 SUB OUT

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

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Laboratories, Inc.

Environmental Testing Laboratory Since 1949

BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 1

Submission #: 21-23649

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

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: 0.95 Container: PE Thermometer ID: 208 Date/Time: 7/23/18
 Temperature: (A) 1.1 °C / (C) 1.0 °C Analyst Init: ER

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES			D	D	D	D	D			
2oz Cr ⁶⁺	A	E	E	E	E	E	E			
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz		B	F	F	F	F	F			
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PLA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A		ABC	ABC	ABC	ABC	ABC			
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 517										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8270C										
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: ER Date/Time: 7-23-18

A = Actual / C = Corrected

1904 Rev 22 04/13/21
(S:\WP\Bact\Fred\Perfec\LAB_DOC\CF\CFRMS\CFRMS\REV 21)



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

Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2123649-01	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: TB-5-072321 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/23/2021 18:10 Sampling Date: 07/23/2021 08:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-5-072321 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

2123649-02	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: MW-23-4 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/23/2021 18:10 Sampling Date: 07/23/2021 08:50 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-23-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

2123649-03	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: MW-23-3 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/23/2021 18:10 Sampling Date: 07/23/2021 09:20 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-23-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

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

Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2123649-04	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: DUP-4-3Q21 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/23/2021 18:10 Sampling Date: 07/23/2021 09:50 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): DUP-4-3Q21 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

2123649-05	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: MW-23-2 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/23/2021 18:10 Sampling Date: 07/23/2021 10:15 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-23-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

2123649-06	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: MW-26-2 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/23/2021 18:10 Sampling Date: 07/23/2021 12:30 Sample Depth: --- Lab Matrix: Water Sample Type: 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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3761 Attucks Drive
Powell, OH 43065

Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2123649-07	COC Number: ---	Receive Date: 07/23/2021 18:10
	Project Number: NASA/JPL	Sampling Date: 07/23/2021 12:40
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: EB-5-072321	Lab Matrix: Water
	Sampled By: BTST	Sample Type: Water
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): EB-5-072321
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

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Powell, OH 43065

Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123649-01	Client Sample Name: NASA/JPL, TB-5-072321, 7/23/2021 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: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123649-01	Client Sample Name: NASA/JPL, TB-5-072321, 7/23/2021 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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Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123649-01	Client Sample Name: NASA/JPL, TB-5-072321, 7/23/2021 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	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)	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	07/29/21 12:21	07/30/21 01:36	MGC	MS-V5	1	B115660	EPA 524.2

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Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123649-01	Client Sample Name: NASA/JPL, TB-5-072321, 7/23/2021 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	07/29/21 12:21	07/30/21	01:36	MGC	MS-V5	1	B115660	EPA 524.2

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Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123649-02	Client Sample Name: NASA/JPL, MW-23-4, 7/23/2021 8:50:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0040	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Chromium	2.8	ug/L	3.0	0.50	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	07/28/21 14:00	07/28/21 17:13		KB1	IC-4	1	B115714	No Prep
2	EPA-200.8	08/09/21 23:35	08/10/21 10:55		KHS	PE-EL2	1	B116577	EPA 200.2

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Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2123649-03) and Client Sample Name (NASA/JPL, MW-23-3, 7/23/2021 9:20:00AM, 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: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123649-03	Client Sample Name: NASA/JPL, MW-23-3, 7/23/2021 9:20:00AM, 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: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123649-03	Client Sample Name: NASA/JPL, MW-23-3, 7/23/2021 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	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)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.2	%	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	07/29/21 12:21	07/30/21 02:00	MGC	MS-V5	1	B115660	EPA 524.2

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Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123649-03	Client Sample Name: NASA/JPL, MW-23-3, 7/23/2021 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	07/29/21 12:21	07/30/21	02:00	MGC	MS-V5	1	B115660	EPA 524.2

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Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123649-03	Client Sample Name: NASA/JPL, MW-23-3, 7/23/2021 9:20:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	3.1	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/18/21 23:00	08/19/21 14:10	KB1	IC6	1	B117583	No Prep

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Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123649-03	Client Sample Name: NASA/JPL, MW-23-3, 7/23/2021 9:20:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0034	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Chromium	1.7	ug/L	3.0	0.50	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	07/28/21 14:00	07/28/21 17:52		KB1	IC-4	1	B115714	No Prep
2	EPA-200.8	08/09/21 23:35	08/10/21 11:14		KHS	PE-EL2	1	B116577	EPA 200.2

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Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123649-04	Client Sample Name: NASA/JPL, DUP-4-3Q21, 7/23/2021 9:50:00AM, 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	0.23	ug/L	0.50	0.14	EPA-524.2	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: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123649-04	Client Sample Name: NASA/JPL, DUP-4-3Q21, 7/23/2021 9:50:00AM, 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	0.30	ug/L	0.50	0.23	EPA-524.2	ND	J	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	0.23	ug/L	0.50	0.19	EPA-524.2	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		1

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Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123649-04	Client Sample Name: NASA/JPL, DUP-4-3Q21, 7/23/2021 9:50:00AM, 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	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)	97.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.0	%	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	07/29/21 12:21	07/30/21 02:25	MGC	MS-V5	1	B115660	EPA 524.2

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Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123649-04	Client Sample Name: NASA/JPL, DUP-4-3Q21, 7/23/2021 9:50:00AM, 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	07/29/21 12:21	07/30/21	02:25	MGC	MS-V5	1	B115660	EPA 524.2

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Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123649-04	Client Sample Name: NASA/JPL, DUP-4-3Q21, 7/23/2021 9:50:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	3.3	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/18/21 23:00	08/19/21 14:26	KB1	IC6	1	B117583	No Prep

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Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123649-04	Client Sample Name: NASA/JPL, DUP-4-3Q21, 7/23/2021 9:50:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0035	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Chromium	1.6	ug/L	3.0	0.50	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	07/28/21 14:00	07/28/21 19:47		KB1	IC-4	1	B115714	No Prep
2	EPA-200.8	08/09/21 23:35	08/10/21 11:15		KHS	PE-EL2	1	B116577	EPA 200.2

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Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123649-05	Client Sample Name: NASA/JPL, MW-23-2, 7/23/2021 10:15:00AM, 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	0.41	ug/L	0.50	0.14	EPA-524.2	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: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123649-05	Client Sample Name: NASA/JPL, MW-23-2, 7/23/2021 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
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	0.27	ug/L	0.50	0.23	EPA-524.2	ND	J	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	0.59	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: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123649-05	Client Sample Name: NASA/JPL, MW-23-2, 7/23/2021 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	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)	99.1	%	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	07/29/21 12:21	07/30/21 02:49	MGC	MS-V5	1	B115660	EPA 524.2

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Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123649-05	Client Sample Name: NASA/JPL, MW-23-2, 7/23/2021 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	07/29/21 12:21	07/30/21	02:49	MGC	MS-V5	1	B115660	EPA 524.2

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Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123649-05	Client Sample Name: NASA/JPL, MW-23-2, 7/23/2021 10:15:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	3.6	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/18/21 23:00	08/19/21 14:41	KB1	IC6	1	B117583	No Prep

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Powell, OH 43065

Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123649-05	Client Sample Name: NASA/JPL, MW-23-2, 7/23/2021 10:15:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0021	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	07/28/21 14:00	07/28/21 19:56		KB1	IC-4	1	B115714	No Prep
2	EPA-200.8	08/09/21 23:35	08/10/21 11:17		KHS	PE-EL2	1	B116577	EPA 200.2

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Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123649-06	Client Sample Name: NASA/JPL, MW-26-2, 7/23/2021 12:30:00PM, 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	1.6	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: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123649-06	Client Sample Name: NASA/JPL, MW-26-2, 7/23/2021 12:30:00PM, 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	1.5	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	0.21	ug/L	0.50	0.19	EPA-524.2	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		1

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Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123649-06	Client Sample Name: NASA/JPL, MW-26-2, 7/23/2021 12:30:00PM, 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	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)	99.1	%	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	07/29/21 12:21	07/30/21 03:13	MGC	MS-V5	1	B115660	EPA 524.2

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Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123649-06	Client Sample Name: NASA/JPL, MW-26-2, 7/23/2021 12:30:00PM, 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	07/29/21 12:21	07/30/21	03:13	MGC	MS-V5	1	B115660	EPA 524.2

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Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123649-06	Client Sample Name: NASA/JPL, MW-26-2, 7/23/2021 12:30:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.8	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/18/21 23:00	08/19/21 15:27	KB1	IC6	1	B117583	No Prep

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Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123649-06	Client Sample Name: NASA/JPL, MW-26-2, 7/23/2021 12:30:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00059	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Chromium	1.2	ug/L	3.0	0.50	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	07/28/21 14:00	07/28/21 20:06		KB1	IC-4	1	B115714	No Prep
2	EPA-200.8	08/09/21 23:35	08/10/21 11:47		KHS	PE-EL4	1	B116578	EPA 200.2

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Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2123649-07	Client Sample Name:	NASA/JPL, EB-5-072321, 7/23/2021 12:40:00PM						
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: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123649-07	Client Sample Name: NASA/JPL, EB-5-072321, 7/23/2021 12:40:00PM
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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: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123649-07	Client Sample Name: NASA/JPL, EB-5-072321, 7/23/2021 12:40:00PM
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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		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	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)	99.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.5	%	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	07/29/21 12:21	07/30/21 03:38	MGC	MS-V5	1	B115660	EPA 524.2

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Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123649-07	Client Sample Name: NASA/JPL, EB-5-072321, 7/23/2021 12:40:00PM
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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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	07/29/21 12:21	07/30/21 03:38	MGC	MS-V5	1	B115660	EPA 524.2

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Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123649-07	Client Sample Name: NASA/JPL, EB-5-072321, 7/23/2021 12:40:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/18/21 23:00	08/19/21 15:42	KB1	IC6	1	B117583	No Prep

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Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123649-07	Client Sample Name: NASA/JPL, EB-5-072321, 7/23/2021 12:40:00PM
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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 Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	07/28/21 14:00	07/28/21 19:18		KB1	IC-4	1	B115714	No Prep
2	EPA-200.8	08/09/21 23:35	08/10/21 12:32		KHS	PE-EL4	1	B116578	EPA 200.2

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Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
QC Batch ID: B115660						
Benzene	B115660-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B115660-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B115660-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B115660-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B115660-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B115660-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B115660-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B115660-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B115660-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B115660-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B115660-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B115660-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B115660-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B115660-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B115660-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B115660-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B115660-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B115660-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B115660-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B115660-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B115660-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B115660-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B115660-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B115660-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B115660-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B115660-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B115660-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B115660-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B115660-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B115660-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B115660-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B115660-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B115660-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B115660-BLK1	ND	ug/L	0.50	0.14	

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Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
QC Batch ID: B115660						
trans-1,3-Dichloropropene	B115660-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B115660-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B115660-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B115660-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B115660-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B115660-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B115660-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B115660-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B115660-BLK1	ND	ug/L	0.50	0.12	
Styrene	B115660-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B115660-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2,2-Tetrachloroethane	B115660-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B115660-BLK1	ND	ug/L	0.50	0.23	
Toluene	B115660-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B115660-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B115660-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B115660-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B115660-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B115660-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B115660-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B115660-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B115660-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B115660-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B115660-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B115660-BLK1	ND	ug/L	0.50	0.18	
Acetone	B115660-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B115660-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B115660-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B115660-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B115660-BLK1	ND	ug/L	2.0	2.0	
Carbon disulfide	B115660-BLK1	ND	ug/L	0.50	0.48	
trans-1,4-Dichloro-2-butene	B115660-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B115660-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B115660-BLK1	ND	ug/L	4.0	1.3	

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Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
QC Batch ID: B115660						
Ethyl t-butyl ether	B115660-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B115660-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B115660-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B115660-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B115660-BLK1	ND	ug/L	5.0	3.3	
Methyl iodide	B115660-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B115660-BLK1	ND	ug/L	5.0	2.4	
Methyl methacrylate	B115660-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B115660-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B115660-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B115660-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B115660-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B115660-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B115660-BLK1	104	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B115660-BLK1	100	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B115660-BLK1	99.4	%	80 - 120 (LCL - UCL)		

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Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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	
QC Batch ID: B115660										
Benzene	B115660-BS1	LCS	26.510	25.000	ug/L	106		70 - 130		
	B115660-BSD1	LCSD	25.310	25.000	ug/L	101	4.6	70 - 130	20	
Bromodichloromethane	B115660-BS1	LCS	28.810	25.000	ug/L	115		70 - 130		
	B115660-BSD1	LCSD	28.160	25.000	ug/L	113	2.3	70 - 130	20	
Chlorobenzene	B115660-BS1	LCS	25.290	25.000	ug/L	101		70 - 130		
	B115660-BSD1	LCSD	24.910	25.000	ug/L	99.6	1.5	70 - 130	20	
Chloroethane	B115660-BS1	LCS	25.220	25.000	ug/L	101		70 - 130		
	B115660-BSD1	LCSD	24.340	25.000	ug/L	97.4	3.6	70 - 130	20	
1,4-Dichlorobenzene	B115660-BS1	LCS	25.750	25.000	ug/L	103		70 - 130		
	B115660-BSD1	LCSD	25.450	25.000	ug/L	102	1.2	70 - 130	20	
1,1-Dichloroethane	B115660-BS1	LCS	26.810	25.000	ug/L	107		70 - 130		
	B115660-BSD1	LCSD	25.810	25.000	ug/L	103	3.8	70 - 130	20	
1,1-Dichloroethene	B115660-BS1	LCS	26.940	25.000	ug/L	108		70 - 130		
	B115660-BSD1	LCSD	25.670	25.000	ug/L	103	4.8	70 - 130	20	
Toluene	B115660-BS1	LCS	26.320	25.000	ug/L	105		70 - 130		
	B115660-BSD1	LCSD	25.040	25.000	ug/L	100	5.0	70 - 130	20	
Trichloroethene	B115660-BS1	LCS	25.780	25.000	ug/L	103		70 - 130		
	B115660-BSD1	LCSD	24.510	25.000	ug/L	98.0	5.1	70 - 130	20	
1,2-Dichloroethane-d4 (Surrogate)	B115660-BS1	LCS	10.350	10.000	ug/L	104		75 - 125		
	B115660-BSD1	LCSD	10.220	10.000	ug/L	102	1.3	75 - 125		
Toluene-d8 (Surrogate)	B115660-BS1	LCS	10.150	10.000	ug/L	102		80 - 120		
	B115660-BSD1	LCSD	10.050	10.000	ug/L	100	1.0	80 - 120		
4-Bromofluorobenzene (Surrogate)	B115660-BS1	LCS	10.100	10.000	ug/L	101		80 - 120		
	B115660-BSD1	LCSD	10.330	10.000	ug/L	103	2.3	80 - 120		

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Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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	
QC Batch ID: B115660		Used client sample: Y - Description: MW-23-3, 07/23/2021 09:20								
Benzene	MS	2123649-03	ND	24.910	25.000	ug/L		99.6		70 - 130
	MSD	2123649-03	ND	24.650	25.000	ug/L	1.0	98.6	20	70 - 130
Bromodichloromethane	MS	2123649-03	ND	28.000	25.000	ug/L		112		70 - 130
	MSD	2123649-03	ND	27.240	25.000	ug/L	2.8	109	20	70 - 130
Chlorobenzene	MS	2123649-03	ND	24.800	25.000	ug/L		99.2		70 - 130
	MSD	2123649-03	ND	24.520	25.000	ug/L	1.1	98.1	20	70 - 130
Chloroethane	MS	2123649-03	ND	24.540	25.000	ug/L		98.2		70 - 130
	MSD	2123649-03	ND	24.380	25.000	ug/L	0.7	97.5	20	70 - 130
1,4-Dichlorobenzene	MS	2123649-03	ND	24.940	25.000	ug/L		99.8		70 - 130
	MSD	2123649-03	ND	24.780	25.000	ug/L	0.6	99.1	20	70 - 130
1,1-Dichloroethane	MS	2123649-03	ND	25.440	25.000	ug/L		102		70 - 130
	MSD	2123649-03	ND	24.830	25.000	ug/L	2.4	99.3	20	70 - 130
1,1-Dichloroethene	MS	2123649-03	ND	25.930	25.000	ug/L		104		70 - 130
	MSD	2123649-03	ND	25.420	25.000	ug/L	2.0	102	20	70 - 130
Toluene	MS	2123649-03	ND	24.880	25.000	ug/L		99.5		70 - 130
	MSD	2123649-03	ND	24.220	25.000	ug/L	2.7	96.9	20	70 - 130
Trichloroethene	MS	2123649-03	ND	24.480	25.000	ug/L		97.9		70 - 130
	MSD	2123649-03	ND	24.460	25.000	ug/L	0.1	97.8	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	2123649-03	ND	10.180	10.000	ug/L		102		75 - 125
	MSD	2123649-03	ND	9.9600	10.000	ug/L	2.2	99.6		75 - 125
Toluene-d8 (Surrogate)	MS	2123649-03	ND	10.240	10.000	ug/L		102		80 - 120
	MSD	2123649-03	ND	10.040	10.000	ug/L	2.0	100		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	2123649-03	ND	10.100	10.000	ug/L		101		80 - 120
	MSD	2123649-03	ND	10.200	10.000	ug/L	1.0	102		80 - 120

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: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
QC Batch ID: B115660						
Chloroacetonitrile	B115660-BLK1	0	ug/L			
1-Chlorobutane	B115660-BLK1	0	ug/L			
1,1-Dichloropropanone	B115660-BLK1	0	ug/L			
Methyl acrylate	B115660-BLK1	0	ug/L			
Nitrobenzene	B115660-BLK1	0	ug/L			
2-Nitropropane	B115660-BLK1	0	ug/L			

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

Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
QC Batch ID: B117583						
Perchlorate	B117583-BLK1	ND	ug/L	2.0	0.81	

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

Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
								Percent Recovery	RPD	
QC Batch ID: B117583										
Perchlorate	B117583-BS1	LCS	9.2852	10.000	ug/L	92.9		85 - 115		

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

Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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	
QC Batch ID: B117583		Used client sample: N									
Perchlorate	DUP	2123497-08	2.3079	2.7845		ug/L	18.7		15		A02
	MS	2123497-08	2.3079	10.700	10.101	ug/L		83.1		80 - 120	
	MSD	2123497-08	2.3079	10.608	10.101	ug/L	0.9	82.2	15	80 - 120	

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Powell, OH 43065

Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B115714						
Hexavalent Chromium	B115714-BLK1	ND	mg/L	0.00020	0.000020	
QC Batch ID: B116577						
Total Recoverable Chromium	B116577-BLK1	ND	ug/L	3.0	0.50	
QC Batch ID: B116578						
Total Recoverable Chromium	B116578-BLK1	ND	ug/L	3.0	0.50	

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Tidewater Inc. - Powell
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Powell, OH 43065

Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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	
QC Batch ID: B115714										
Hexavalent Chromium	B115714-BS1	LCS	0.021492	0.020000	mg/L	107		90 - 110		
QC Batch ID: B116577										
Total Recoverable Chromium	B116577-BS1	LCS	40.696	40.000	ug/L	102		85 - 115		
QC Batch ID: B116578										
Total Recoverable Chromium	B116578-BS1	LCS	39.331	40.000	ug/L	98.3		85 - 115		
	B116578-BSD1	LCSD	41.334	40.000	ug/L	103	5.0	85 - 115	20	

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Tidewater Inc. - Powell
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Powell, OH 43065

Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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	
QC Batch ID: B115714		Used client sample: Y - Description: MW-23-4, 07/23/2021 08:50								
Hexavalent Chromium	DUP	2123649-02	0.0040320	0.0040180		mg/L	0.3		10	
	MS	2123649-02	0.0040320	0.024459	0.020202	mg/L		101		90 - 110
	MSD	2123649-02	0.0040320	0.024279	0.020202	mg/L	0.7	100	10	90 - 110
QC Batch ID: B116577		Used client sample: Y - Description: MW-23-4, 07/23/2021 08:50								
Total Recoverable Chromium	DUP	2123649-02	2.7700	2.9520		ug/L	6.4		20	J
	MS	2123649-02	2.7700	42.055	40.000	ug/L		98.2		70 - 130
	MSD	2123649-02	2.7700	42.924	40.000	ug/L	2.0	100	20	70 - 130
QC Batch ID: B116578		Used client sample: Y - Description: MW-26-2, 07/23/2021 12:30								
Total Recoverable Chromium	DUP	2123649-06	1.1600	1.2960		ug/L	11.1		20	J
	MS	2123649-06	1.1600	40.097	40.000	ug/L		97.3		70 - 130
	MSD	2123649-06	1.1600	41.632	40.000	ug/L	3.8	101	20	70 - 130

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

Reported: 09/15/2021 14:51
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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.
- V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.



Date of Report: 09/14/2021

David Conner

Tidewater Inc. - Powell

3761 Attucks Drive

Powell, OH 43065

Client Project: 3Q21

BCL Project: JPL- GW Monitoring Wells-CLP

BCL Work Order: 2123781

Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 7/26/2021. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Eli Velazquez
Client Service Rep

Stuart Buttram
Technical Director

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

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Volatile Organic Analysis (EPA Method 524.2)

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Chain of Custody Form

Page 1 of 1

Required Fields Report To: Tidewater, Inc. Client: David Conner 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@tech2o.net Submission #: 21-23781		Project Description: JPL-GW Monitoring Project Code: 3021 Sampler(s): Blaine Tech Location: Mendota		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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No *Standard Turnaround = 10	
Analysis Requested VOCs EPA 524.2 TRM, Cr Perchlorate Hexavalent Cr6 - 218.6 (mg/L) Cl NO3, NO2, SO4 Orthophosphate 365.1		Sample Description Sample # Description Date Time Matrix* -1 AB-6-072621 7/26/11 0900 W -2 MW-4-3 7/26/11 0930 W -3 MW-4-2 7/26/11 1030 W -4 MW-12-5 7/26/11 1230 W -5 MW-12-4 7/26/11 1300 W -6 MW-12-3 7/26/11 1350 W -7 MW-12-2 7/26/11 1345 W -8 MW-5-3021 7/26/11 1400 W -9 FB-6-072621 7/26/11 1410 W -10 SB-2-072621 7/26/11 1410 W		Notes MS/MSD BY DISTRIBUTION SUB OUT SHORT HOLDING TIME NO2 NO3 OP SS DO Cl2 BOD 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. Relinquished By: _____ Date: 7/26/11 Time: 1415 2. Relinquished By: _____ Date: 7/26/11 Time: 1325 3. Relinquished By: _____ Date: 7/26/11 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 1 Of 1
 Submission #: 21-23781

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: 0.95 Container: PE Thermometer ID: 208
 Temperature: (A) 1.2 °C / (C) 1.1 °C
 Date/Time: 7/26/21 1825 Analyst Init: PPE

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz (6oz) PE UNPRES		IJ	E	D	D	E	E	E	E	E
2oz Cr ⁴⁺		GH	D			D	D	D	D	D
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz (6oz)		KL	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		A-F	A-C	A-C	A-C	A-C	A-C	A-C	A-C	A-C
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL - 534										
QT EPA 505/605.3/8051A										
QT EPA 515.1/8151A										
QT EPA 525.1										
QT EPA 525.1 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.1										
QT EPA 8015M										
QT EPA 8270C										
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: 7/26/21 2020
 A = Actual / C = Corrected



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

Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2123781-01	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: TB-6-072621 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/26/2021 18:25 Sampling Date: 07/26/2021 08:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-6-072621 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

2123781-02	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-4-3 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/26/2021 18:25 Sampling Date: 07/26/2021 09:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-4-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

2123781-03	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-4-2 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/26/2021 18:25 Sampling Date: 07/26/2021 10:30 Sample Depth: --- Lab Matrix: Water Sample Type: 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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3761 Attucks Drive
Powell, OH 43065

Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2123781-04	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-12-5 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/26/2021 18:25 Sampling Date: 07/26/2021 12:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-12-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

2123781-05	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-12-4 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/26/2021 18:25 Sampling Date: 07/26/2021 12:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-12-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

2123781-06	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-12-3 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/26/2021 18:25 Sampling Date: 07/26/2021 13:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-12-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

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3761 Attucks Drive
Powell, OH 43065

Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2123781-07	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-12-2 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/26/2021 18:25 Sampling Date: 07/26/2021 13:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-12-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

2123781-08	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: DUP-5-3Q21 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/26/2021 18:25 Sampling Date: 07/26/2021 13:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): DUP-5-3Q21 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

2123781-09	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: EB-6-072621 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/26/2021 18:25 Sampling Date: 07/26/2021 14:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-6-072621 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

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3761 Attucks Drive
Powell, OH 43065

Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2123781-10	COC Number:	---	Receive Date:	07/26/2021 18:25
	Project Number:	JPL	Sampling Date:	07/26/2021 14:10
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SB-2-072621	Lab Matrix:	Water
	Sampled By:	Blaine Tech - L. Henderson of BTST	Sample Type:	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): SB-2-072621	
			Matrix: W	
			Sample QC Type (SACode): CS	
		Cooler ID:		

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

Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2123781-01) and Client Sample Name (JPL, TB-6-072621, 7/26/2021 8:00:00AM, 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 analysis results.

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

Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123781-01	Client Sample Name: JPL, TB-6-072621, 7/26/2021 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	V11	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: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123781-01	Client Sample Name: JPL, TB-6-072621, 7/26/2021 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		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)	99.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.8	%	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	08/08/21 12:00	08/09/21 09:17	MGC	MS-V5	1	B116424	EPA 524.2

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3761 Attucks Drive
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Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123781-01	Client Sample Name: JPL, TB-6-072621, 7/26/2021 8:00:00AM, 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	08/08/21 12:00	08/09/21	09:17	MGC	MS-V5	1	B116424	EPA 524.2

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Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2123781-02) and Client Sample Name (JPL, MW-4-3, 7/26/2021 9:30:00AM, Blaine Tech - L. Henderson)

Main data table with columns: Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quads, Run #. Lists various VOCs like Benzene, Bromobenzene, etc.

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Powell, OH 43065

Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123781-02		Client Sample Name: JPL, MW-4-3, 7/26/2021 9:30:00AM, 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	V11	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: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123781-02	Client Sample Name: JPL, MW-4-3, 7/26/2021 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		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)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.2	%	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	08/08/21 12:00	08/09/21 09:41	MGC	MS-V5	1	B116424	EPA 524.2

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Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123781-02	Client Sample Name: JPL, MW-4-3, 7/26/2021 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	08/08/21 12:00	08/09/21	09:41	MGC	MS-V5	1	B116424	EPA 524.2

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Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123781-02	Client Sample Name: JPL, MW-4-3, 7/26/2021 9:30:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.9	ug/L	2.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/20/21 14:00	08/20/21 16:53	KB1	IC6	1	B117800	No Prep

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Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123781-02	Client Sample Name: JPL, MW-4-3, 7/26/2021 9:30:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00028	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Chromium	3.1	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/03/21 19:00	08/04/21 08:11		ANK	IC-4	1	B116089	No Prep
2	EPA-200.8	08/10/21 20:55	08/11/21 09:49		KHS	PE-EL2	1	B116695	EPA 200.2

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Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123781-03	Client Sample Name: JPL, MW-4-2, 7/26/2021 10:30:00AM, 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		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	0.64	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	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	V11	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: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123781-03		Client Sample Name: JPL, MW-4-2, 7/26/2021 10:30:00AM, 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	V11	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: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123781-03	Client Sample Name: JPL, MW-4-2, 7/26/2021 10:30:00AM, 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		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)	104	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.2	%	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	08/08/21 12:00	08/09/21 10:05	MGC	MS-V5	1	B116424	EPA 524.2

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Tidewater Inc. - Powell
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Powell, OH 43065

Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123781-03	Client Sample Name: JPL, MW-4-2, 7/26/2021 10:30:00AM, 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	08/08/21 12:00	08/09/21	10:05	MGC	MS-V5	1	B116424	EPA 524.2

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Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123781-03	Client Sample Name: JPL, MW-4-2, 7/26/2021 10:30:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	53	ug/L	10	4.0	EPA-314.0	ND	A10	1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-314.0	08/20/21 14:00	08/21/21 05:25		ANK	IC6	5	B117800	No Prep

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Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123781-03	Client Sample Name: JPL, MW-4-2, 7/26/2021 10:30:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00027	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Chromium	1.3	ug/L	3.0	0.50	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	08/03/21 19:00	08/04/21	08:49	ANK	IC-4	1	B116089	No Prep
2	EPA-200.8	08/10/21 20:55	08/11/21	10:18	KHS	PE-EL2	1	B116695	EPA 200.2

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Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123781-04	Client Sample Name: JPL, MW-12-5, 7/26/2021 12:00:00PM, 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		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	0.38	ug/L	0.50	0.17	EPA-524.2	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	0.27	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	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	V11	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: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123781-04	Client Sample Name: JPL, MW-12-5, 7/26/2021 12:00:00PM, 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	V11	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: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123781-04	Client Sample Name: JPL, MW-12-5, 7/26/2021 12:00:00PM, 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		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)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.0	%	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	08/08/21 12:00	08/09/21 10:29	MGC	MS-V5	1	B116424	EPA 524.2

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Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123781-04	Client Sample Name: JPL, MW-12-5, 7/26/2021 12:00:00PM, 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/08/21 12:00	08/09/21 10:29	MGC	MS-V5	1	B116424	EPA 524.2

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Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123781-04	Client Sample Name: JPL, MW-12-5, 7/26/2021 12:00:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.3	ug/L	2.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/20/21 14:00	08/20/21 18:56	KB1	IC6	1	B117800	No Prep

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Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123781-05	Client Sample Name: JPL, MW-12-4, 7/26/2021 12:30:00PM, 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		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	0.86	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	0.59	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	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	V11	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
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Powell, OH 43065

Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2123781-05) and Client Sample Name (JPL, MW-12-4, 7/26/2021 12:30:00PM, Blaine Tech - L. Henderson)

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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Powell, OH 43065

Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123781-05	Client Sample Name: JPL, MW-12-4, 7/26/2021 12:30:00PM, 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		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)	99.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.9	%	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	08/08/21 12:00	08/09/21 10:54	MGC	MS-V5	1	B116424	EPA 524.2

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Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123781-05	Client Sample Name: JPL, MW-12-4, 7/26/2021 12:30:00PM, 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	08/08/21 12:00	08/09/21	10:54	MGC	MS-V5	1	B116424	EPA 524.2

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Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123781-05	Client Sample Name: JPL, MW-12-4, 7/26/2021 12:30:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.2	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/20/21 14:00	08/20/21 19:26	KB1	IC6	1	B117800	No Prep

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Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123781-06	Client Sample Name: JPL, MW-12-3, 7/26/2021 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		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	1.5	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	0.75	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND	V11	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	V11	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: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2123781-06) and Client Sample Name (JPL, MW-12-3, 7/26/2021 1:00:00PM, 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 analysis results.

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Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123781-06	Client Sample Name: JPL, MW-12-3, 7/26/2021 1:00:00PM, 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		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)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.8	%	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	08/08/21 12:00	08/09/21 11:18	MGC	MS-V5	1	B116424	EPA 524.2

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Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123781-06	Client Sample Name: JPL, MW-12-3, 7/26/2021 1:00:00PM, 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	08/08/21 12:00	08/09/21	11:18	MGC	MS-V5	1	B116424	EPA 524.2

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Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123781-06	Client Sample Name: JPL, MW-12-3, 7/26/2021 1:00:00PM, Blaine Tech - L. Henderson
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.8	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/20/21 14:00	08/20/21 19:57	KB1	IC6	1	B117800	No Prep

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Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123781-06	Client Sample Name: JPL, MW-12-3, 7/26/2021 1:00:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00038	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Chromium	0.82	ug/L	3.0	0.50	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	08/03/21 19:00	08/04/21 08:59		ANK	IC-4	1	B116089	No Prep
2	EPA-200.8	08/10/21 20:55	08/11/21 10:19		KHS	PE-EL2	1	B116695	EPA 200.2

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Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2123781-07) and Client Sample Name (JPL, MW-12-2, 7/26/2021 1:30:00PM, 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: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123781-07	Client Sample Name: JPL, MW-12-2, 7/26/2021 1:30:00PM, 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	V11	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: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123781-07	Client Sample Name: JPL, MW-12-2, 7/26/2021 1:30:00PM, 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		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)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.0	%	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	08/08/21 12:00	08/09/21 11:43	MGC	MS-V5	1	B116424	EPA 524.2

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Powell, OH 43065

Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123781-07	Client Sample Name: JPL, MW-12-2, 7/26/2021 1:30:00PM, 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	08/08/21 12:00	08/09/21 11:43		MGC	MS-V5	1	B116424	EPA 524.2

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Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123781-07	Client Sample Name: JPL, MW-12-2, 7/26/2021 1:30:00PM, Blaine Tech - L. Henderson
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.3	ug/L	2.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/20/21 14:00	08/20/21 20:28	KB1	IC6	1	B117800	No Prep

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Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123781-07	Client Sample Name: JPL, MW-12-2, 7/26/2021 1:30:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00025	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Chromium	2.3	ug/L	3.0	0.50	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	08/03/21 19:00	08/04/21 09:09		ANK	IC-4	1	B116089	No Prep
2	EPA-200.8	08/10/21 20:55	08/11/21 10:21		KHS	PE-EL2	1	B116695	EPA 200.2

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Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123781-08	Client Sample Name: JPL, DUP-5-3Q21, 7/26/2021 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		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	V11	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	V11	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: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2123781-08) and Client Sample Name (JPL, DUP-5-3Q21, 7/26/2021 1:45:00PM, Blaine Tech - L. Henderson)

Main data table with columns: Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quads, Run #. Lists various VOCs like cis-1,3-Dichloropropene, Ethylbenzene, Hexachlorobutadiene, etc.

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Powell, OH 43065

Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123781-08	Client Sample Name: JPL, DUP-5-3Q21, 7/26/2021 1:45:00PM, 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		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)	98.3	%	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	08/08/21 12:00	08/09/21 12:07	MGC	MS-V5	1	B116424	EPA 524.2

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Powell, OH 43065

Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123781-08	Client Sample Name: JPL, DUP-5-3Q21, 7/26/2021 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	08/08/21 12:00	08/09/21 12:07		MGC	MS-V5	1	B116424	EPA 524.2

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Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123781-08	Client Sample Name: JPL, DUP-5-3Q21, 7/26/2021 1:45:00PM, Blaine Tech - L. Henderson
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.2	ug/L	2.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/20/21 14:00	08/20/21 20:58	KB1	IC6	1	B117800	No Prep

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Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123781-08	Client Sample Name: JPL, DUP-5-3Q21, 7/26/2021 1:45:00PM, Blaine Tech - L. Henderson
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00022	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Chromium	2.0	ug/L	3.0	0.50	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	08/03/21 19:00	08/04/21 09:37		ANK	IC-4	1	B116089	No Prep
2	EPA-200.8	08/10/21 20:55	08/11/21 10:22		KHS	PE-EL2	1	B116695	EPA 200.2

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Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123781-09	Client Sample Name: JPL, EB-6-072621, 7/26/2021 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		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	V11	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	V11	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: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123781-09	Client Sample Name: JPL, EB-6-072621, 7/26/2021 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	V11	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: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123781-09	Client Sample Name: JPL, EB-6-072621, 7/26/2021 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		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)	94.0	%	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	08/08/21 12:00	08/09/21 12:31	MGC	MS-V5	1	B116424	EPA 524.2

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Powell, OH 43065

Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123781-09	Client Sample Name: JPL, EB-6-072621, 7/26/2021 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	08/08/21 12:00	08/09/21 12:31		MGC	MS-V5	1	B116424	EPA 524.2

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Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123781-09	Client Sample Name: JPL, EB-6-072621, 7/26/2021 2:00:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/20/21 14:00	08/20/21 21:44	KB1	IC6	1	B117800	No Prep

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Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123781-09	Client Sample Name: JPL, EB-6-072621, 7/26/2021 2:00:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00012	mg/L	0.00020	0.000020	EPA-218.6	ND	J	1
Total Recoverable Chromium	0.78	ug/L	3.0	0.50	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	08/03/21 19:00	08/04/21 09:47		ANK	IC-4	1	B116089	No Prep
2	EPA-200.8	08/10/21 20:55	08/11/21 10:24		KHS	PE-EL2	1	B116695	EPA 200.2

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Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123781-10	Client Sample Name: JPL, SB-2-072621, 7/26/2021 2:10:00PM, 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		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	V11	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	V11	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: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123781-10	Client Sample Name: JPL, SB-2-072621, 7/26/2021 2:10:00PM, 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	V11	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: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123781-10	Client Sample Name: JPL, SB-2-072621, 7/26/2021 2:10:00PM, 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		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)	99.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.2	%	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	08/08/21 12:00	08/09/21 12:56	MGC	MS-V5	1	B116424	EPA 524.2

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Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123781-10	Client Sample Name: JPL, SB-2-072621, 7/26/2021 2:10:00PM, 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	08/08/21 12:00	08/09/21	12:56	MGC	MS-V5	1	B116424	EPA 524.2

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Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123781-10	Client Sample Name: JPL, SB-2-072621, 7/26/2021 2:10:00PM, Blaine Tech - L. Henderson
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/23/21 10:00	08/23/21 12:03	ANK	IC6	1	B117828	No Prep

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Powell, OH 43065

Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123781-10	Client Sample Name: JPL, SB-2-072621, 7/26/2021 2:10:00PM, Blaine Tech - L. Henderson
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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 Chromium	1.0	ug/L	3.0	0.50	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	08/03/21 19:00	08/04/21 09:57		ANK	IC-4	1	B116089	No Prep
2	EPA-200.8	08/10/21 20:55	08/11/21 10:26		KHS	PE-EL2	1	B116695	EPA 200.2

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

Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
QC Batch ID: B116424						
Benzene	B116424-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B116424-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B116424-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B116424-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B116424-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B116424-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B116424-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B116424-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B116424-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B116424-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B116424-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B116424-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B116424-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B116424-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B116424-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B116424-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B116424-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B116424-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B116424-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B116424-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B116424-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B116424-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B116424-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B116424-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B116424-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B116424-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B116424-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B116424-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B116424-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B116424-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B116424-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B116424-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B116424-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B116424-BLK1	ND	ug/L	0.50	0.14	

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Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
QC Batch ID: B116424						
trans-1,3-Dichloropropene	B116424-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B116424-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B116424-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B116424-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B116424-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B116424-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B116424-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B116424-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B116424-BLK1	ND	ug/L	0.50	0.12	
Styrene	B116424-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B116424-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2-Tetrachloroethane	B116424-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B116424-BLK1	ND	ug/L	0.50	0.23	
Toluene	B116424-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B116424-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B116424-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B116424-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B116424-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B116424-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B116424-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B116424-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B116424-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B116424-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B116424-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B116424-BLK1	ND	ug/L	0.50	0.18	
Acetone	B116424-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B116424-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B116424-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B116424-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B116424-BLK1	ND	ug/L	2.0	2.0	
Carbon disulfide	B116424-BLK1	ND	ug/L	0.50	0.48	
trans-1,4-Dichloro-2-butene	B116424-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B116424-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B116424-BLK1	ND	ug/L	4.0	1.3	

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Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
QC Batch ID: B116424						
Ethyl t-butyl ether	B116424-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B116424-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B116424-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B116424-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B116424-BLK1	ND	ug/L	5.0	3.3	
Methyl iodide	B116424-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B116424-BLK1	ND	ug/L	5.0	2.4	
Methyl methacrylate	B116424-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B116424-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B116424-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B116424-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B116424-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B116424-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B116424-BLK1	109	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B116424-BLK1	101	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B116424-BLK1	95.8	%	80 - 120 (LCL - UCL)		

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Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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	
QC Batch ID: B116424										
Benzene	B116424-BS1	LCS	24.530	25.000	ug/L	98.1		70 - 130		
	B116424-BSD1	LCSD	25.370	25.000	ug/L	101	3.4	70 - 130		20
Bromodichloromethane	B116424-BS1	LCS	30.300	25.000	ug/L	121		70 - 130		
	B116424-BSD1	LCSD	31.080	25.000	ug/L	124	2.5	70 - 130		20
Chlorobenzene	B116424-BS1	LCS	24.830	25.000	ug/L	99.3		70 - 130		
	B116424-BSD1	LCSD	25.290	25.000	ug/L	101	1.8	70 - 130		20
Chloroethane	B116424-BS1	LCS	22.710	25.000	ug/L	90.8		70 - 130		
	B116424-BSD1	LCSD	24.040	25.000	ug/L	96.2	5.7	70 - 130		20
1,4-Dichlorobenzene	B116424-BS1	LCS	25.340	25.000	ug/L	101		70 - 130		
	B116424-BSD1	LCSD	25.740	25.000	ug/L	103	1.6	70 - 130		20
1,1-Dichloroethane	B116424-BS1	LCS	25.840	25.000	ug/L	103		70 - 130		
	B116424-BSD1	LCSD	26.820	25.000	ug/L	107	3.7	70 - 130		20
1,1-Dichloroethene	B116424-BS1	LCS	26.690	25.000	ug/L	107		70 - 130		
	B116424-BSD1	LCSD	28.170	25.000	ug/L	113	5.4	70 - 130		20
Toluene	B116424-BS1	LCS	25.920	25.000	ug/L	104		70 - 130		
	B116424-BSD1	LCSD	26.530	25.000	ug/L	106	2.3	70 - 130		20
Trichloroethene	B116424-BS1	LCS	24.460	25.000	ug/L	97.8		70 - 130		
	B116424-BSD1	LCSD	25.180	25.000	ug/L	101	2.9	70 - 130		20
1,2-Dichloroethane-d4 (Surrogate)	B116424-BS1	LCS	10.760	10.000	ug/L	108		75 - 125		
	B116424-BSD1	LCSD	10.550	10.000	ug/L	106	2.0	75 - 125		
Toluene-d8 (Surrogate)	B116424-BS1	LCS	10.310	10.000	ug/L	103		80 - 120		
	B116424-BSD1	LCSD	10.360	10.000	ug/L	104	0.5	80 - 120		
4-Bromofluorobenzene (Surrogate)	B116424-BS1	LCS	10.400	10.000	ug/L	104		80 - 120		
	B116424-BSD1	LCSD	10.130	10.000	ug/L	101	2.6	80 - 120		

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Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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	Percent Recovery	
QC Batch ID: B116424		Used client sample: Y - Description: MW-4-3, 07/26/2021 09:30								
Benzene	MS	2123781-02	ND	24.250	25.000	ug/L		97.0		70 - 130
	MSD	2123781-02	ND	24.490	25.000	ug/L	1.0	98.0	20	70 - 130
Bromodichloromethane	MS	2123781-02	ND	28.550	25.000	ug/L		114		70 - 130
	MSD	2123781-02	ND	29.810	25.000	ug/L	4.3	119	20	70 - 130
Chlorobenzene	MS	2123781-02	ND	24.510	25.000	ug/L		98.0		70 - 130
	MSD	2123781-02	ND	24.940	25.000	ug/L	1.7	99.8	20	70 - 130
Chloroethane	MS	2123781-02	ND	23.030	25.000	ug/L		92.1		70 - 130
	MSD	2123781-02	ND	23.140	25.000	ug/L	0.5	92.6	20	70 - 130
1,4-Dichlorobenzene	MS	2123781-02	ND	24.670	25.000	ug/L		98.7		70 - 130
	MSD	2123781-02	ND	25.170	25.000	ug/L	2.0	101	20	70 - 130
1,1-Dichloroethane	MS	2123781-02	ND	25.110	25.000	ug/L		100		70 - 130
	MSD	2123781-02	ND	25.580	25.000	ug/L	1.9	102	20	70 - 130
1,1-Dichloroethene	MS	2123781-02	ND	26.980	25.000	ug/L		108		70 - 130
	MSD	2123781-02	ND	27.310	25.000	ug/L	1.2	109	20	70 - 130
Toluene	MS	2123781-02	ND	24.660	25.000	ug/L		98.6		70 - 130
	MSD	2123781-02	ND	25.610	25.000	ug/L	3.8	102	20	70 - 130
Trichloroethene	MS	2123781-02	ND	24.030	25.000	ug/L		96.1		70 - 130
	MSD	2123781-02	ND	24.670	25.000	ug/L	2.6	98.7	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	2123781-02	ND	10.980	10.000	ug/L		110		75 - 125
	MSD	2123781-02	ND	10.540	10.000	ug/L	4.1	105		75 - 125
Toluene-d8 (Surrogate)	MS	2123781-02	ND	10.180	10.000	ug/L		102		80 - 120
	MSD	2123781-02	ND	10.130	10.000	ug/L	0.5	101		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	2123781-02	ND	10.380	10.000	ug/L		104		80 - 120
	MSD	2123781-02	ND	10.360	10.000	ug/L	0.2	104		80 - 120

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Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
QC Batch ID: B116424						
Chloroacetonitrile	B116424-BLK1	0	ug/L			
1-Chlorobutane	B116424-BLK1	0	ug/L			
1,1-Dichloropropanone	B116424-BLK1	0	ug/L			
Methyl acrylate	B116424-BLK1	0	ug/L			
Nitrobenzene	B116424-BLK1	0	ug/L			
2-Nitropropane	B116424-BLK1	0	ug/L			

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Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
QC Batch ID: B117800						
Perchlorate	B117800-BLK1	ND	ug/L	2.0	0.81	
QC Batch ID: B117828						
Perchlorate	B117828-BLK1	ND	ug/L	2.0	0.81	

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Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
								Percent Recovery	RPD	
QC Batch ID: B117800										
Perchlorate	B117800-BS1	LCS	9.0047	10.000	ug/L	90.0		85 - 115		
	B117800-BSD1	LCSD	9.0151	10.000	ug/L	90.2	0.1	85 - 115		15
QC Batch ID: B117828										
Perchlorate	B117828-BS1	LCS	9.8676	10.000	ug/L	98.7		85 - 115		
	B117828-BSD1	LCSD	10.291	10.101	ug/L	102	4.2	85 - 115		15

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Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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	RPD	
QC Batch ID: B117800		Used client sample: Y - Description: MW-4-3, 07/26/2021 09:30								
Perchlorate	DUP	2123781-02	1.9242	1.8549		ug/L	3.7		15	J
	MS	2123781-02	1.9242	10.278	10.101	ug/L		82.7	80 - 120	
	MSD	2123781-02	1.9242	10.274	10.101	ug/L	0.0	82.7	15 80 - 120	
QC Batch ID: B117828		Used client sample: Y - Description: SB-2-072621, 07/26/2021 14:10								
Perchlorate	DUP	2123781-10	ND	ND		ug/L			15	
	MS	2123781-10	ND	9.4877	10.000	ug/L		94.9	80 - 120	
	MSD	2123781-10	ND	9.8839	10.101	ug/L	4.1	97.9	15 80 - 120	

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Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B116089						
Hexavalent Chromium	B116089-BLK1	ND	mg/L	0.00020	0.000020	
QC Batch ID: B116695						
Total Recoverable Chromium	B116695-BLK1	ND	ug/L	3.0	0.50	

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Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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		
QC Batch ID: B116089											
Hexavalent Chromium	B116089-BS1	LCS	0.019683	0.020000	mg/L	98.4		90 - 110			
QC Batch ID: B116695											
Total Recoverable Chromium	B116695-BS1	LCS	43.605	40.000	ug/L	109		85 - 115			

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Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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	
QC Batch ID: B116089		Used client sample: Y - Description: MW-4-3, 07/26/2021 09:30								
Hexavalent Chromium	DUP	2123781-02	0.00027500	0.00026800		mg/L	2.6		10	
	MS	2123781-02	0.00027500	0.019144	0.020202	mg/L		93.4	90 - 110	
	MSD	2123781-02	0.00027500	0.018932	0.020202	mg/L	1.1	92.4	10	90 - 110
QC Batch ID: B116695		Used client sample: Y - Description: MW-4-3, 07/26/2021 09:30								
Total Recoverable Chromium	DUP	2123781-02	3.0710	3.1750		ug/L	3.3		20	
	MS	2123781-02	3.0710	44.998	40.000	ug/L		105	70 - 130	
	MSD	2123781-02	3.0710	45.076	40.000	ug/L	0.2	105	20	70 - 130

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

Reported: 09/14/2021 14:33
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A10 Detection and quantitation limits were raised due to matrix interference.
- V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.



Date of Report: 09/15/2021

David Conner

Tidewater Inc. - Powell

3761 Attucks Drive

Powell, OH 43065

Client Project: 3Q21

BCL Project: JPL- GW Monitoring Wells-CLP

BCL Work Order: 2123930

Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 7/27/2021. 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



Required Fields 21-23930

Page 1 of 1

Project Description: JPL-GW Monitoring
 Project Code: 3Q21
 Sampler(s): Blaine Tech
 L. Henderson

Client: Tidewater, Inc.
 Attn: David Conner
 Street Address: 3781 Allucks Drive
 City: Powell State: OH Zip: 43065
 Phone: 614-288-5715 Fax: 614-792-2897
 Email: david.conner@tidleh2o.net

Analysis Requested:
 VOCs EPA 524.2
 TRM: Cr
 Perchlorate
 Hexavalent Cr6 -218.6 (mg/L)
 Cl, NO3, NO2, SO4
 Orthophosphate 365.1

Matrix Types: S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid
 Turnaround # of working days: 24 Hr Rush 48 Hr Rush 3-5 Day Rush 3-5 Day Rush
 Lab TAT Approval: *Additional Charges May Apply

Sample #	Sample Description	Date	Time	Matrix*
-1	TB-7-072721	7/27/11	0900	W
-2	MW-11-4	10/05		
-3	MW-11-3	09/25		
-4	MW-11-2	10/15		
-5	MW-11-1	10/15		
-6	MW-3-4	10/15		
-7	MW-3-3	10/15		
-8	MW-3-2	10/15		
-9	EB-7-072721	10/30		

CHK BY: DISTRI: MOTESON
 SUB-OUT: MS/MSD
 MS/MSD
 MS/MSD

Global ID: 1. Received By: 7/27/11 14:50
 2. Received By: 7/27/11 1845
 3. Received By: 7/27/11 1845

Cost Center: 1. Relinquished By: 7/27/11 1845
 2. Relinquished By: 7/27/11 1845
 3. Relinquished By: 7/27/11 1845

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)

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 #: 21-23930

SHIPPING INFORMATION
Fed Ex [] UPS [] GSO / GLS [] Hand Delivery []
BC Lab Field Service [x] Other [] (Specify) _____

SHIPPING CONTAINER
Ice Chest [x] None [] Box []
Other [] (Specify) _____

FREE LIQUID
YES [] NO []
W / S

Refrigerant: Ice [x] Blue Ice [] None [] Other [] Comments:

Custody Seals: Ice Chests [] Containers []
Intact: Yes [] No [] Intact: Yes [] No [] None [x] Comments:

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

COC Received
YES [x] NO []

Emissivity: 0.95 Container: PE Thermometer ID: 208

Date/Time: 1/21/21 1845

Temperature: (A) 1.2 °C / (C) 1.1 °C

Analyst Initials: PRE

Table with columns for Sample Containers and Sample Numbers (1-10). Rows include various sample types like OT PE UNPRES, INORGANIC CHEMICAL METALS, and VOA VIALS. Handwritten entries include 'X44', '106', 'D', 'E', 'F', 'G-H', 'I-J', 'K-L', 'A', 'A-C', 'A-F', 'A-C', 'A-F', 'A-C', 'A-C'.

Comments:
Sample Numbering Completed By: PE Date/Time: 1/21/21 1925

Rev 22 04/15/21

(S:\WP\Doc\Word\Perfec\LAB_RECEIPTFORMS\SYSANRECINV.XL)



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

Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2123930-01	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: TB-7-072721 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/27/2021 18:45 Sampling Date: 07/27/2021 08:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-7-072721 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

2123930-02	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: MW-11-4 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/27/2021 18:45 Sampling Date: 07/27/2021 09:05 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-11-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

2123930-03	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: MW-11-3 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/27/2021 18:45 Sampling Date: 07/27/2021 09:35 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-11-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

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

Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2123930-04	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: MW-11-2 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/27/2021 18:45 Sampling Date: 07/27/2021 10:15 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-11-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

2123930-05	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: MW-11-1 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/27/2021 18:45 Sampling Date: 07/27/2021 11:15 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-11-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

2123930-06	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: MW-3-4 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/27/2021 18:45 Sampling Date: 07/27/2021 13:15 Sample Depth: --- Lab Matrix: Water Sample Type: 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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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2123930-07	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: MW-3-3 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/27/2021 18:45 Sampling Date: 07/27/2021 13:40 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-3-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

2123930-08	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: MW-3-2 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/27/2021 18:45 Sampling Date: 07/27/2021 14:20 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-3-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

2123930-09	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: EB-7-072721 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/27/2021 18:45 Sampling Date: 07/27/2021 14:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-7-072721 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

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

Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123930-01	Client Sample Name: NASA/JPL, TB-7-072721, 7/27/2021 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		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	V11	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	V11	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: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123930-01	Client Sample Name: NASA/JPL, TB-7-072721, 7/27/2021 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	V11	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: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123930-01	Client Sample Name: NASA/JPL, TB-7-072721, 7/27/2021 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	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)	95.7	%	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	08/10/21 03:00	08/10/21 08:49	MGC	MS-V5	1	B116586	EPA 524.2

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

Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123930-01	Client Sample Name: NASA/JPL, TB-7-072721, 7/27/2021 8:00:00AM, 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	08/10/21 03:00	08/10/21	08:49	MGC	MS-V5	1	B116586	EPA 524.2

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Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123930-02	Client Sample Name: NASA/JPL, MW-11-4, 7/27/2021 9:05:00AM, 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		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	V11	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	V11	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: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123930-02	Client Sample Name: NASA/JPL, MW-11-4, 7/27/2021 9:05:00AM, 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	V11	1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	0.14	ug/L	0.50	0.12	EPA-524.2	ND	J	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	0.45	ug/L	0.50	0.19	EPA-524.2	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		1

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Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123930-02	Client Sample Name: NASA/JPL, MW-11-4, 7/27/2021 9:05:00AM, 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	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)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.0	%	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	08/10/21 03:00	08/10/21 09:37	MGC	MS-V5	1	B116586	EPA 524.2

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Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123930-02	Client Sample Name: NASA/JPL, MW-11-4, 7/27/2021 9:05:00AM, 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	08/10/21 03:00	08/10/21 09:37		MGC	MS-V5	1	B116586	EPA 524.2

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Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123930-02	Client Sample Name: NASA/JPL, MW-11-4, 7/27/2021 9:05:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/20/21 14:00	08/20/21 22:00	KB1	IC6	1	B117801	No Prep

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Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2123930-03	Client Sample Name:	NASA/JPL, MW-11-3, 7/27/2021 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		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	V11	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	V11	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: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2123930-03) and Client Sample Name (NASA/JPL, MW-11-3, 7/27/2021 9:35:00AM, Blaine Tech - L. Henderson)

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: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123930-03	Client Sample Name: NASA/JPL, MW-11-3, 7/27/2021 9:35:00AM, 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	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)	99.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.1	%	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	08/10/21 03:00	08/10/21 10:02	MGC	MS-V5	1	B116586	EPA 524.2

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Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123930-03	Client Sample Name: NASA/JPL, MW-11-3, 7/27/2021 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		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/10/21 03:00	08/10/21 10:02		MGC	MS-V5	1	B116586	EPA 524.2

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Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123930-03	Client Sample Name: NASA/JPL, MW-11-3, 7/27/2021 9:35:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/20/21 14:00	08/20/21 22:15	KB1	IC6	1	B117801	No Prep

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3761 Attucks Drive
Powell, OH 43065

Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123930-03	Client Sample Name: NASA/JPL, MW-11-3, 7/27/2021 9:35:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000064	mg/L	0.00020	0.000020	EPA-218.6	ND	J	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/03/21 19:00	08/04/21 11:42		ANK	IC-4	1	B116090	No Prep
2	EPA-200.8	08/11/21 22:15	08/12/21 09:08		ARD	PE-EL2	1	B116798	EPA 200.2

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Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2123930-04	Client Sample Name:	NASA/JPL, MW-11-2, 7/27/2021 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		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	V11	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	V11	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: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123930-04	Client Sample Name: NASA/JPL, MW-11-2, 7/27/2021 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	V11	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: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123930-04	Client Sample Name: NASA/JPL, MW-11-2, 7/27/2021 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	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)	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	08/10/21 03:00	08/10/21 09:13	MGC	MS-V5	1	B116586	EPA 524.2

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Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123930-04	Client Sample Name: NASA/JPL, MW-11-2, 7/27/2021 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	08/10/21 03:00	08/10/21	09:13	MGC	MS-V5	1	B116586	EPA 524.2

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Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123930-04	Client Sample Name: NASA/JPL, MW-11-2, 7/27/2021 10:15:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/20/21 14:00	08/20/21 23:17	ANK	IC6	1	B117801	No Prep

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Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123930-04	Client Sample Name: NASA/JPL, MW-11-2, 7/27/2021 10:15:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000077	mg/L	0.00020	0.000020	EPA-218.6	ND	J	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/03/21 19:00	08/04/21 10:35		ANK	IC-4	1	B116090	No Prep
2	EPA-200.8	08/11/21 22:15	08/12/21 08:51		ARD	PE-EL2	1	B116798	EPA 200.2

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Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123930-05	Client Sample Name: NASA/JPL, MW-11-1, 7/27/2021 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		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	V11	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	V11	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: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123930-05	Client Sample Name: NASA/JPL, MW-11-1, 7/27/2021 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	V11	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: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123930-05	Client Sample Name: NASA/JPL, MW-11-1, 7/27/2021 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	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)	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	08/10/21 03:00	08/10/21 13:17	MGC	MS-V5	1	B116586	EPA 524.2

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Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123930-05	Client Sample Name: NASA/JPL, MW-11-1, 7/27/2021 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	08/10/21 03:00	08/10/21 13:17		MGC	MS-V5	1	B116586	EPA 524.2

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Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123930-05	Client Sample Name: NASA/JPL, MW-11-1, 7/27/2021 11:15:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride	25	mg/L	0.50	0.13	EPA-300.0	0.15		1
Nitrate as N	1.1	mg/L	0.10	0.024	EPA-300.0	ND		1
Sulfate	52	mg/L	1.0	0.14	EPA-300.0	ND		1
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		2
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		3
ortho-Phosphate as P	ND	mg/L	0.050	0.017	EPA-365.1	ND		4

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-300.0	07/27/21 22:00	07/28/21	02:43	ANK	IC8	1	B115583	No Prep
2	EPA-353.2	07/28/21 08:30	07/28/21	09:02	MC1	KONE-1	1	B115675	No Prep
3	EPA-314.0	08/20/21 14:00	08/21/21	00:49	ANK	IC6	1	B117801	No Prep
4	EPA-365.1	07/28/21 08:16	07/28/21	08:25	MC1	SC-2	1	B115673	No Prep

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Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123930-05	Client Sample Name: NASA/JPL, MW-11-1, 7/27/2021 11:15:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00024	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/03/21 19:00	08/04/21 12:11		ANK	IC-4	1	B116090	No Prep
2	EPA-200.8	08/11/21 22:15	08/12/21 09:09		ARD	PE-EL2	1	B116798	EPA 200.2

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Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123930-06	Client Sample Name: NASA/JPL, MW-3-4, 7/27/2021 1:15:00PM, 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		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	V11	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	V11	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: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123930-06	Client Sample Name: NASA/JPL, MW-3-4, 7/27/2021 1:15:00PM, 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	V11	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: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123930-06	Client Sample Name: NASA/JPL, MW-3-4, 7/27/2021 1:15:00PM, 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	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)	99.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.6	%	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	08/10/21 03:00	08/10/21 13:41	MGC	MS-V5	1	B116586	EPA 524.2

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Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123930-06	Client Sample Name: NASA/JPL, MW-3-4, 7/27/2021 1:15:00PM, 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	08/10/21 03:00	08/10/21	13:41	MGC	MS-V5	1	B116586	EPA 524.2

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Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123930-06	Client Sample Name: NASA/JPL, MW-3-4, 7/27/2021 1:15:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.1	ug/L	2.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/20/21 14:00	08/21/21 01:04	ANK	IC6	1	B117801	No Prep

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Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123930-06	Client Sample Name: NASA/JPL, MW-3-4, 7/27/2021 1:15:00PM, 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 Chromium	14	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/03/21 19:00	08/04/21 12:20		ANK	IC-4	1	B116090	No Prep
2	EPA-200.8	08/11/21 22:15	08/12/21 09:11		ARD	PE-EL2	1	B116798	EPA 200.2

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Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123930-07	Client Sample Name: NASA/JPL, MW-3-3, 7/27/2021 1:40:00PM, 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		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	V11	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	V11	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: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123930-07	Client Sample Name: NASA/JPL, MW-3-3, 7/27/2021 1:40:00PM, 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	V11	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: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123930-07	Client Sample Name: NASA/JPL, MW-3-3, 7/27/2021 1:40:00PM, 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	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)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.5	%	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	08/10/21 12:00	08/10/21 12:52	MGC	MS-V5	1	B116587	EPA 524.2

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Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123930-07	Client Sample Name: NASA/JPL, MW-3-3, 7/27/2021 1:40:00PM, 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	08/10/21 12:00	08/10/21	12:52	MGC	MS-V5	1	B116587	EPA 524.2

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Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123930-07	Client Sample Name: NASA/JPL, MW-3-3, 7/27/2021 1:40:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.0	ug/L	2.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/20/21 14:00	08/21/21 02:36	ANK	IC6	1	B117802	No Prep

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Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123930-07	Client Sample Name: NASA/JPL, MW-3-3, 7/27/2021 1:40:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00079	mg/L	0.00020	0.000020	EPA-218.6	0.000054		1
Total Recoverable Chromium	1.6	ug/L	3.0	0.50	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	08/03/21 19:00	08/04/21 18:44		KEB	IC-4	1	B116088	No Prep
2	EPA-200.8	08/11/21 22:15	08/12/21 17:46		KHS	PE-EL4	1	B116799	EPA 200.2

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Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2123930-08	Client Sample Name:	NASA/JPL, MW-3-2, 7/27/2021 2:20:00PM, 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		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	V11	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	V11	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: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123930-08	Client Sample Name: NASA/JPL, MW-3-2, 7/27/2021 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	V11	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: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123930-08	Client Sample Name: NASA/JPL, MW-3-2, 7/27/2021 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	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)	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	08/10/21 03:00	08/10/21 14:05	MGC	MS-V5	1	B116586	EPA 524.2

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Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123930-08	Client Sample Name: NASA/JPL, MW-3-2, 7/27/2021 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	08/10/21 03:00	08/10/21 14:05		MGC	MS-V5	1	B116586	EPA 524.2

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Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123930-08	Client Sample Name: NASA/JPL, MW-3-2, 7/27/2021 2:20:00PM, Blaine Tech - L. Henderson
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/20/21 14:00	08/21/21 01:35	ANK	IC6	1	B117801	No Prep

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Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123930-08	Client Sample Name: NASA/JPL, MW-3-2, 7/27/2021 2:20:00PM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00069	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Chromium	0.51	ug/L	3.0	0.50	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	08/03/21 19:00	08/04/21 12:30		ANK	IC-4	1	B116090	No Prep
2	EPA-200.8	08/11/21 22:15	08/12/21 09:12		ARD	PE-EL2	1	B116798	EPA 200.2

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Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2123930-09) and Client Sample Name (NASA/JPL, EB-7-072721, 7/27/2021 2:30:00PM, 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 analysis results.

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Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123930-09	Client Sample Name: NASA/JPL, EB-7-072721, 7/27/2021 2:30:00PM, 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	V11	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: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2123930-09	Client Sample Name: NASA/JPL, EB-7-072721, 7/27/2021 2:30:00PM, 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	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)	99.4	%	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	08/10/21 03:00	08/10/21 14:30	MGC	MS-V5	1	B116586	EPA 524.2

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Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2123930-09	Client Sample Name: NASA/JPL, EB-7-072721, 7/27/2021 2:30:00PM, 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	08/10/21 03:00	08/10/21 14:30		MGC	MS-V5	1	B116586	EPA 524.2

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Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2123930-09	Client Sample Name: NASA/JPL, EB-7-072721, 7/27/2021 2:30:00PM, Blaine Tech - L. Henderson
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/20/21 14:00	08/21/21 04:08	ANK	IC6	1	B117802	No Prep

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Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2123930-09	Client Sample Name: NASA/JPL, EB-7-072721, 7/27/2021 2:30:00PM, Blaine Tech - L. Henderson
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000083	mg/L	0.00020	0.000020	EPA-218.6	ND	J	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/03/21 19:00	08/04/21 11:32		ANK	IC-4	1	B116090	No Prep
2	EPA-200.8	08/11/21 22:15	08/12/21 09:14		ARD	PE-EL2	1	B116798	EPA 200.2

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Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
QC Batch ID: B116586						
Benzene	B116586-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B116586-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B116586-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B116586-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B116586-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B116586-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B116586-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B116586-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B116586-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B116586-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B116586-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B116586-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B116586-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B116586-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B116586-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B116586-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B116586-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B116586-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B116586-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B116586-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B116586-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B116586-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B116586-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B116586-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B116586-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B116586-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B116586-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B116586-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B116586-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B116586-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B116586-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B116586-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B116586-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B116586-BLK1	ND	ug/L	0.50	0.14	

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Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
QC Batch ID: B116586						
trans-1,3-Dichloropropene	B116586-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B116586-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B116586-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B116586-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B116586-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B116586-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B116586-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B116586-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B116586-BLK1	ND	ug/L	0.50	0.12	
Styrene	B116586-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B116586-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2-Tetrachloroethane	B116586-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B116586-BLK1	ND	ug/L	0.50	0.23	
Toluene	B116586-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B116586-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B116586-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B116586-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B116586-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B116586-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B116586-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B116586-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B116586-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B116586-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B116586-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B116586-BLK1	ND	ug/L	0.50	0.18	
Acetone	B116586-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B116586-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B116586-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B116586-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B116586-BLK1	ND	ug/L	2.0	2.0	
Carbon disulfide	B116586-BLK1	ND	ug/L	0.50	0.48	
trans-1,4-Dichloro-2-butene	B116586-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B116586-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B116586-BLK1	ND	ug/L	4.0	1.3	

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Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
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QC Batch ID: B116586

Ethyl t-butyl ether	B116586-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B116586-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B116586-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B116586-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B116586-BLK1	ND	ug/L	5.0	3.3	
Methyl iodide	B116586-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B116586-BLK1	ND	ug/L	5.0	2.4	
Methyl methacrylate	B116586-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B116586-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B116586-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B116586-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B116586-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B116586-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B116586-BLK1	106	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B116586-BLK1	100	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B116586-BLK1	95.0	%	80 - 120 (LCL - UCL)		

QC Batch ID: B116587

Benzene	B116587-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B116587-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B116587-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B116587-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B116587-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B116587-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B116587-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B116587-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B116587-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B116587-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B116587-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B116587-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B116587-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B116587-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B116587-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B116587-BLK1	ND	ug/L	0.50	0.093	

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Powell, OH 43065

Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
QC Batch ID: B116587						
Dibromochloromethane	B116587-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B116587-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B116587-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B116587-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B116587-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B116587-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B116587-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B116587-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B116587-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B116587-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B116587-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B116587-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B116587-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B116587-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B116587-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B116587-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B116587-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B116587-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	B116587-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B116587-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B116587-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B116587-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B116587-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B116587-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B116587-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B116587-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B116587-BLK1	ND	ug/L	0.50	0.12	
Styrene	B116587-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B116587-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2,2-Tetrachloroethane	B116587-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B116587-BLK1	ND	ug/L	0.50	0.23	
Toluene	B116587-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B116587-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B116587-BLK1	ND	ug/L	0.50	0.15	

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Powell, OH 43065

Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
QC Batch ID: B116587						
1,1,1-Trichloroethane	B116587-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B116587-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B116587-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B116587-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B116587-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B116587-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B116587-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B116587-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B116587-BLK1	ND	ug/L	0.50	0.18	
Acetone	B116587-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B116587-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B116587-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B116587-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B116587-BLK1	ND	ug/L	2.0	2.0	
Carbon disulfide	B116587-BLK1	ND	ug/L	0.50	0.48	
trans-1,4-Dichloro-2-butene	B116587-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B116587-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B116587-BLK1	ND	ug/L	4.0	1.3	
Ethyl t-butyl ether	B116587-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B116587-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B116587-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B116587-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B116587-BLK1	ND	ug/L	5.0	3.3	
Methyl iodide	B116587-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B116587-BLK1	ND	ug/L	5.0	2.4	
Methyl methacrylate	B116587-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B116587-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B116587-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B116587-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B116587-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B116587-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B116587-BLK1	104	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B116587-BLK1	101	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B116587-BLK1	97.4	%	80 - 120 (LCL - UCL)		

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Powell, OH 43065

Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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	
QC Batch ID: B116586										
Benzene	B116586-BS1	LCS	26.410	25.000	ug/L	106		70 - 130		
	B116586-BSD1	LCSD	25.340	25.000	ug/L	101	4.1	70 - 130	20	
Bromodichloromethane	B116586-BS1	LCS	28.990	25.000	ug/L	116		70 - 130		
	B116586-BSD1	LCSD	28.340	25.000	ug/L	113	2.3	70 - 130	20	
Chlorobenzene	B116586-BS1	LCS	25.500	25.000	ug/L	102		70 - 130		
	B116586-BSD1	LCSD	24.720	25.000	ug/L	98.9	3.1	70 - 130	20	
Chloroethane	B116586-BS1	LCS	26.420	25.000	ug/L	106		70 - 130		
	B116586-BSD1	LCSD	25.310	25.000	ug/L	101	4.3	70 - 130	20	
1,4-Dichlorobenzene	B116586-BS1	LCS	26.130	25.000	ug/L	105		70 - 130		
	B116586-BSD1	LCSD	25.480	25.000	ug/L	102	2.5	70 - 130	20	
1,1-Dichloroethane	B116586-BS1	LCS	27.140	25.000	ug/L	109		70 - 130		
	B116586-BSD1	LCSD	25.680	25.000	ug/L	103	5.5	70 - 130	20	
1,1-Dichloroethene	B116586-BS1	LCS	27.160	25.000	ug/L	109		70 - 130		
	B116586-BSD1	LCSD	25.610	25.000	ug/L	102	5.9	70 - 130	20	
Toluene	B116586-BS1	LCS	25.550	25.000	ug/L	102		70 - 130		
	B116586-BSD1	LCSD	24.480	25.000	ug/L	97.9	4.3	70 - 130	20	
Trichloroethene	B116586-BS1	LCS	25.010	25.000	ug/L	100		70 - 130		
	B116586-BSD1	LCSD	24.150	25.000	ug/L	96.6	3.5	70 - 130	20	
1,2-Dichloroethane-d4 (Surrogate)	B116586-BS1	LCS	10.720	10.000	ug/L	107		75 - 125		
	B116586-BSD1	LCSD	10.340	10.000	ug/L	103	3.6	75 - 125		
Toluene-d8 (Surrogate)	B116586-BS1	LCS	10.080	10.000	ug/L	101		80 - 120		
	B116586-BSD1	LCSD	10.290	10.000	ug/L	103	2.1	80 - 120		
4-Bromofluorobenzene (Surrogate)	B116586-BS1	LCS	10.090	10.000	ug/L	101		80 - 120		
	B116586-BSD1	LCSD	10.400	10.000	ug/L	104	3.0	80 - 120		

QC Batch ID: B116587										
Benzene	B116587-BS1	LCS	25.530	25.000	ug/L	102		70 - 130		
Bromodichloromethane	B116587-BS1	LCS	27.980	25.000	ug/L	112		70 - 130		
Chlorobenzene	B116587-BS1	LCS	24.660	25.000	ug/L	98.6		70 - 130		
Chloroethane	B116587-BS1	LCS	26.140	25.000	ug/L	105		70 - 130		
1,4-Dichlorobenzene	B116587-BS1	LCS	25.270	25.000	ug/L	101		70 - 130		
1,1-Dichloroethane	B116587-BS1	LCS	26.050	25.000	ug/L	104		70 - 130		
1,1-Dichloroethene	B116587-BS1	LCS	26.650	25.000	ug/L	107		70 - 130		
Toluene	B116587-BS1	LCS	24.130	25.000	ug/L	96.5		70 - 130		
Trichloroethene	B116587-BS1	LCS	25.220	25.000	ug/L	101		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B116587-BS1	LCS	10.910	10.000	ug/L	109		75 - 125		
Toluene-d8 (Surrogate)	B116587-BS1	LCS	10.060	10.000	ug/L	101		80 - 120		

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Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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	
QC Batch ID: B116587										
4-Bromofluorobenzene (Surrogate)	B116587-BS1	LCS	10.570	10.000	ug/L	106		80 - 120		

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Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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 Quals. Includes QC Batch ID: B116586 and Used client sample: Y - Description: MW-11-2, 07/27/2021 10:15.

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 ID: B116587 and Used client sample: Y - Description: MW-3-3, 07/27/2021 13:40.

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Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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	Percent Recovery	
QC Batch ID: B116587		Used client sample: Y - Description: MW-3-3, 07/27/2021 13:40								
1,1-Dichloroethene	MS	2123930-07	ND	26.830	25.000	ug/L		107		70 - 130
	MSD	2123930-07	ND	27.460	25.000	ug/L	2.3	110	20	70 - 130
Toluene	MS	2123930-07	ND	24.740	25.000	ug/L		99.0		70 - 130
	MSD	2123930-07	ND	25.090	25.000	ug/L	1.4	100	20	70 - 130
Trichloroethene	MS	2123930-07	ND	24.430	25.000	ug/L		97.7		70 - 130
	MSD	2123930-07	ND	24.850	25.000	ug/L	1.7	99.4	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	2123930-07	ND	11.100	10.000	ug/L		111		75 - 125
	MSD	2123930-07	ND	11.020	10.000	ug/L	0.7	110		75 - 125
Toluene-d8 (Surrogate)	MS	2123930-07	ND	10.180	10.000	ug/L		102		80 - 120
	MSD	2123930-07	ND	10.010	10.000	ug/L	1.7	100		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	2123930-07	ND	10.300	10.000	ug/L		103		80 - 120
	MSD	2123930-07	ND	10.310	10.000	ug/L	0.1	103		80 - 120

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Powell, OH 43065

Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
QC Batch ID: B116586						
Chloroacetonitrile	B116586-BLK1	0	ug/L			
1-Chlorobutane	B116586-BLK1	0	ug/L			
1,1-Dichloropropanone	B116586-BLK1	0	ug/L			
Methyl acrylate	B116586-BLK1	0	ug/L			
Nitrobenzene	B116586-BLK1	0	ug/L			
2-Nitropropane	B116586-BLK1	0	ug/L			
QC Batch ID: B116587						
Chloroacetonitrile	B116587-BLK1	0	ug/L			
1-Chlorobutane	B116587-BLK1	0	ug/L			
1,1-Dichloropropanone	B116587-BLK1	0	ug/L			
Methyl acrylate	B116587-BLK1	0	ug/L			
Nitrobenzene	B116587-BLK1	0	ug/L			
2-Nitropropane	B116587-BLK1	0	ug/L			

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Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
QC Batch ID: B115583						
Chloride	B115583-BLK1	0.15300	mg/L	0.50	0.13	J
Nitrate as N	B115583-BLK1	ND	mg/L	0.10	0.024	
Sulfate	B115583-BLK1	ND	mg/L	1.0	0.14	
QC Batch ID: B115673						
ortho-Phosphate as P	B115673-BLK1	ND	mg/L	0.050	0.017	
QC Batch ID: B115675						
Nitrite as N	B115675-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: B117801						
Perchlorate	B117801-BLK1	ND	ug/L	2.0	0.81	
QC Batch ID: B117802						
Perchlorate	B117802-BLK1	ND	ug/L	2.0	0.81	

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Powell, OH 43065

Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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	
QC Batch ID: B115583										
Chloride	B115583-BS1	LCS	49.245	50.000	mg/L	98.5		90 - 110		
Nitrate as N	B115583-BS1	LCS	4.8390	5.0000	mg/L	96.8		90 - 110		
Sulfate	B115583-BS1	LCS	97.567	100.00	mg/L	97.6		90 - 110		
QC Batch ID: B115673										
ortho-Phosphate as P	B115673-BS1	LCS	0.50780	0.50000	mg/L	102		90 - 110		
QC Batch ID: B115675										
Nitrite as N	B115675-BS1	LCS	0.50215	0.50000	mg/L	100		90 - 110		
QC Batch ID: B117801										
Perchlorate	B117801-BS1	LCS	9.3393	10.000	ug/L	93.4		85 - 115		
	B117801-BSD1	LCSD	8.9358	10.000	ug/L	89.4	4.4	85 - 115		15
QC Batch ID: B117802										
Perchlorate	B117802-BS1	LCS	9.3120	10.000	ug/L	93.1		85 - 115		
	B117802-BSD1	LCSD	9.2566	10.000	ug/L	92.6	0.6	85 - 115		15

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

Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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	
QC Batch ID: B115583		Used client sample: N								
Chloride	DUP	2123916-02	18.587	18.516		mg/L	0.4		10	
	MS	2123916-02	18.587	73.590	50.505	mg/L		109		80 - 120
	MSD	2123916-02	18.587	74.528	50.505	mg/L	1.3	111	10	80 - 120
Nitrate as N	DUP	2123916-02	0.73900	0.73100		mg/L	1.1		10	
	MS	2123916-02	0.73900	6.0242	5.0505	mg/L		105		80 - 120
	MSD	2123916-02	0.73900	6.0283	5.0505	mg/L	0.1	105	10	80 - 120
Sulfate	DUP	2123916-02	16.985	16.901		mg/L	0.5		10	
	MS	2123916-02	16.985	126.15	101.01	mg/L		108		80 - 120
	MSD	2123916-02	16.985	126.25	101.01	mg/L	0.1	108	10	80 - 120
QC Batch ID: B115673		Used client sample: Y - Description: MW-11-1, 07/27/2021 11:15								
ortho-Phosphate as P	DUP	2123930-05	ND	ND		mg/L			10	
	MS	2123930-05	ND	0.54758	0.52632	mg/L		104		90 - 110
	MSD	2123930-05	ND	0.54937	0.52632	mg/L	0.3	104	10	90 - 110
QC Batch ID: B115675		Used client sample: N								
Nitrite as N	DUP	2123814-01	ND	ND		mg/L			10	
	MS	2123814-01	ND	0.53688	0.52632	mg/L		102		90 - 110
	MSD	2123814-01	ND	0.50893	0.52632	mg/L	5.3	96.7	10	90 - 110
QC Batch ID: B117801		Used client sample: Y - Description: MW-11-2, 07/27/2021 10:15								
Perchlorate	DUP	2123930-04	ND	ND		ug/L			15	
	MS	2123930-04	ND	8.3176	10.101	ug/L		82.3		80 - 120
	MSD	2123930-04	ND	7.8798	10.101	ug/L	5.4	78.0	15	80 - 120 Q03
QC Batch ID: B117802		Used client sample: Y - Description: MW-3-3, 07/27/2021 13:40								
Perchlorate	DUP	2123930-07	1.0187	1.2546		ug/L	20.8		15	J,A02
	MS	2123930-07	1.0187	9.5639	10.101	ug/L		84.6		80 - 120
	MSD	2123930-07	1.0187	9.7298	10.101	ug/L	1.7	86.2	15	80 - 120

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

Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B116088						
Hexavalent Chromium	B116088-BLK1	0.000054000	mg/L	0.00020	0.000020	J
QC Batch ID: B116090						
Hexavalent Chromium	B116090-BLK1	ND	mg/L	0.00020	0.000020	
QC Batch ID: B116798						
Total Recoverable Chromium	B116798-BLK1	ND	ug/L	3.0	0.50	
QC Batch ID: B116799						
Total Recoverable Chromium	B116799-BLK1	ND	ug/L	3.0	0.50	

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

Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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		
QC Batch ID: B116088											
Hexavalent Chromium	B116088-BS1	LCS	0.018651	0.020000	mg/L	93.3		90 - 110			
QC Batch ID: B116090											
Hexavalent Chromium	B116090-BS1	LCS	0.019806	0.020000	mg/L	99.0		90 - 110			
QC Batch ID: B116798											
Total Recoverable Chromium	B116798-BS1	LCS	40.940	40.000	ug/L	102		85 - 115			
QC Batch ID: B116799											
Total Recoverable Chromium	B116799-BS1	LCS	42.091	40.000	ug/L	105		85 - 115			
	B116799-BSD1	LCSD	41.361	40.000	ug/L	103	1.7	85 - 115		20	

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

Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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	
QC Batch ID: B116088		Used client sample: Y - Description: MW-3-3, 07/27/2021 13:40								
Hexavalent Chromium	DUP	2123930-07	0.00078800	0.00077700		mg/L	1.4		10	
	MS	2123930-07	0.00078800	0.021004	0.020202	mg/L		100		90 - 110
	MSD	2123930-07	0.00078800	0.020944	0.020202	mg/L	0.3	99.8	10	90 - 110
QC Batch ID: B116090		Used client sample: Y - Description: MW-11-2, 07/27/2021 10:15								
Hexavalent Chromium	DUP	2123930-04	0.000077000	0.000068000		mg/L	12.4		10	J,A02
	MS	2123930-04	0.000077000	0.019265	0.020202	mg/L		95.0		90 - 110
	MSD	2123930-04	0.000077000	0.019340	0.020202	mg/L	0.4	95.4	10	90 - 110
QC Batch ID: B116798		Used client sample: Y - Description: MW-11-2, 07/27/2021 10:15								
Total Recoverable Chromium	DUP	2123930-04	ND	ND		ug/L			20	
	MS	2123930-04	ND	40.245	40.000	ug/L		101		70 - 130
	MSD	2123930-04	ND	41.560	40.000	ug/L	3.2	104	20	70 - 130
QC Batch ID: B116799		Used client sample: Y - Description: MW-3-3, 07/27/2021 13:40								
Total Recoverable Chromium	DUP	2123930-07	1.6130	1.6210		ug/L	0.5		20	J
	MS	2123930-07	1.6130	41.531	40.000	ug/L		99.8		70 - 130
	MSD	2123930-07	1.6130	40.453	40.000	ug/L	2.6	97.1	20	70 - 130

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

Reported: 09/15/2021 14:18
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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.
- Q03 Matrix spike recovery(s) was(were) not within the control limits.
- V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.



Date of Report: 09/15/2021

David Conner

Tidewater Inc. - Powell

3761 Attucks Drive

Powell, OH 43065

Client Project: 3Q21

BCL Project: JPL- GW Monitoring Wells-CLP

BCL Work Order: 2124077

Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 7/28/2021. 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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Chain of Custody Form

Person 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: 614 792-2897
 Email Address: david.conner@ltdh2o.net
 Submission #: 21-24077

Project Description: JPL-GW Monitoring
 Project Code: 3Q21
 Sampler(s): Blaine Tech
 L. Haddock

Analysis Requested:
 Orthophosphate 365.1
 CI, NO3, NO2, SO4
 Hexavalent Cr6 - 218.6 (mg/L)
 Perchlorate
 TRM: C
 VOCs EPA 524.2

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

Sample #	Sample Description	Date	Time	Matrix*
-1	TB-8-072821	7/26/21	0800	L
-2	MJ-21-5		0910	
-3	MJ-21-4		0930	
-4	MJ-21-3		1000	
-5	DUP-6-3821		1015	
-6	DUP-MJ-21-2		1045	
-7	FB-8-072821		1100	
-8	MJ-15		1403	
-9	DUP-7-3821		1405	

Notes: CHK BY DISTRIBUTION SUB OUT

Are there any tests with holding times? less than or equal to 48 hours?
 Yes NO
 *Standard Turnaround = 10

Matrix Legend: 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: _____

Comments: PLEASE NOTATE WHICH SAMPLES TO USE FOR OC (MSMSD) 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: [Signature] Date: 7/26/21 Time: 1445
 2. Requisitioned By: [Signature] Date: 7/26/21 Time: 1835
 3. Requisitioned By: [Signature] Date: 7/26/21 Time: 1835

Global ID: [Blank]
 1. Received By: [Signature] Date: 7/26/21 Time: 1445
 2. Received By: [Signature] Date: 7/26/21 Time: 1835
 3. Received By: [Signature] Date: 7/26/21 Time: 1835

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 #: 21-24077

SHIPPING INFORMATION
Fed Ex [] UPS [] GSO / GLS [] Hand Delivery []
BC Lab Field Service [x] Other [] (Specify) _____

SHIPPING CONTAINER
Ice Chest [x] None [] Box []
Other [] (Specify) _____

FREE LIQUID
YES [] NO []
W / S

Refrigerant: Ice [x] Blue Ice [] None [] Other [] Comments:

Custody Seals: Ice Chest [] Containers [] None [x] Comments:
Intact? Yes [] No [] Intact? Yes [] No []

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

COC Received
[x] YES [] NO

Emissivity: 0.9 Container: PE Thermometer ID: 708
Temperature: (A) 0.7 °C / (C) 0.6 °C

Date/Time: 7/29/21 1835
Analyst Init: FE

Table with columns for Sample Containers and Sample Numbers (1-10). Rows include various sample types like PE UNPRES, INORGANIC CHEMICAL METALS, and various EPA methods.

Comments:

Sample Numbering Completed By: PFE

Date/Time: 7/29/21

1906

Rev 22 6/13/21

[S:\MPPDoc\Word\PerfectLAB_COCSFORMS\SAS\REV 22]



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

Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2124077-01	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: TB-8-072821 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/28/2021 18:35 Sampling Date: 07/28/2021 08:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-8-072821 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

2124077-02	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-21-5 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/28/2021 18:35 Sampling Date: 07/28/2021 09:10 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-21-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

2124077-03	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-21-4 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/28/2021 18:35 Sampling Date: 07/28/2021 09:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-21-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

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

Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2124077-04	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-21-3 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/28/2021 18:35 Sampling Date: 07/28/2021 10:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-21-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

2124077-05	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: DUP-6-3Q21 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/28/2021 18:35 Sampling Date: 07/28/2021 10:15 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): DUP-6-3Q21 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

2124077-06	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-21-2 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/28/2021 18:35 Sampling Date: 07/28/2021 10:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-21-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2124077-07	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: EB-8-072821 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/28/2021 18:35 Sampling Date: 07/28/2021 11:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-8-072821 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

2124077-08	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-15 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/28/2021 18:35 Sampling Date: 07/28/2021 14:03 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-15 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

2124077-09	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: DUP-7-3Q21 Sampled By: Blaine Tech - L. Henderson of BTST	Receive Date: 07/28/2021 18:35 Sampling Date: 07/28/2021 14:05 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): DUP-7-3Q21 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2124077-01	Client Sample Name: JPL, TB-8-072821, 7/28/2021 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		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: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2124077-01	Client Sample Name: JPL, TB-8-072821, 7/28/2021 8:00:00AM, 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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Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2124077-01	Client Sample Name: JPL, TB-8-072821, 7/28/2021 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	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)	102	%	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	08/10/21 12:00	08/10/21 21:02	MGC	MS-V5	1	B116587	EPA 524.2

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Powell, OH 43065

Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2124077-01	Client Sample Name: JPL, TB-8-072821, 7/28/2021 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	08/10/21 12:00	08/10/21	21:02	MGC	MS-V5	1	B116587	EPA 524.2

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Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2124077-02	Client Sample Name: JPL, MW-21-5, 7/28/2021 9:10:00AM, 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		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	4.5	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: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2124077-02	Client Sample Name: JPL, MW-21-5, 7/28/2021 9:10:00AM, 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	0.79	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: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2124077-02	Client Sample Name: JPL, MW-21-5, 7/28/2021 9:10:00AM, 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	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)	99.8	%	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	08/10/21 12:00	08/10/21 21:27	MGC	MS-V5	1	B116587	EPA 524.2

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Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2124077-02	Client Sample Name: JPL, MW-21-5, 7/28/2021 9:10:00AM, 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	08/10/21 12:00	08/10/21	21:27	MGC	MS-V5	1	B116587	EPA 524.2

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Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2124077-02	Client Sample Name: JPL, MW-21-5, 7/28/2021 9:10:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.4	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/23/21 10:00	08/23/21 13:04	KB1	IC6	1	B117828	No Prep

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Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2124077-02	Client Sample Name: JPL, MW-21-5, 7/28/2021 9:10:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0014	mg/L	0.00020	0.000020	EPA-218.6	0.000054		1
Total Recoverable Chromium	1.1	ug/L	3.0	0.50	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	08/03/21 19:00	08/04/21 19:23		KEB	IC-4	1	B116088	No Prep
2	EPA-200.8	08/11/21 22:15	08/12/21 09:17		ARD	PE-EL2	1	B116798	EPA 200.2

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Powell, OH 43065

Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2124077-03	Client Sample Name:	JPL, MW-21-4, 7/28/2021 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		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	4.9	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: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2124077-03) and Client Sample Name (JPL, MW-21-4, 7/28/2021 9:30:00AM, 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 test results.

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Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2124077-03	Client Sample Name: JPL, MW-21-4, 7/28/2021 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	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)	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	08/10/21 12:00	08/10/21 21:51	MGC	MS-V5	1	B116587	EPA 524.2

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Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2124077-03	Client Sample Name: JPL, MW-21-4, 7/28/2021 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	08/10/21 12:00	08/10/21	21:51	MGC	MS-V5	1	B116587	EPA 524.2

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Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2124077-03	Client Sample Name: JPL, MW-21-4, 7/28/2021 9:30:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.8	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/23/21 10:00	08/23/21 14:21	KB1	IC6	1	B117828	No Prep

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Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2124077-03	Client Sample Name: JPL, MW-21-4, 7/28/2021 9:30:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0015	mg/L	0.00020	0.000020	EPA-218.6	0.000054		1
Total Recoverable Chromium	1.3	ug/L	3.0	0.50	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	08/03/21 19:00	08/04/21 19:32		KEB	IC-4	1	B116088	No Prep
2	EPA-200.8	08/11/21 22:15	08/12/21 09:19		ARD	PE-EL2	1	B116798	EPA 200.2

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Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2124077-04	Client Sample Name: JPL, MW-21-3, 7/28/2021 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		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	0.47	ug/L	0.50	0.14	EPA-524.2	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: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2124077-04	Client Sample Name: JPL, MW-21-3, 7/28/2021 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	0.95	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	1.1	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: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2124077-04	Client Sample Name: JPL, MW-21-3, 7/28/2021 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	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)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.6	%	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	08/10/21 12:00	08/10/21 22:15	MGC	MS-V5	1	B116587	EPA 524.2

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Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2124077-04	Client Sample Name: JPL, MW-21-3, 7/28/2021 10:00:00AM, 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	08/10/21 12:00	08/10/21 22:15		MGC	MS-V5	1	B116587	EPA 524.2

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Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2124077-04	Client Sample Name: JPL, MW-21-3, 7/28/2021 10:00:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.6	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/23/21 10:00	08/23/21 14:36	KB1	IC6	1	B117828	No Prep

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Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2124077-04	Client Sample Name: JPL, MW-21-3, 7/28/2021 10:00:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00060	mg/L	0.00020	0.000020	EPA-218.6	0.000054		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time	Date/Time				Batch ID	Prep Method
1	EPA-218.6	08/03/21 19:00	08/04/21 19:42		KEB	IC-4	1	B116088	No Prep
2	EPA-200.8	08/11/21 22:15	08/12/21 09:20		ARD	PE-EL2	1	B116798	EPA 200.2

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Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2124077-05	Client Sample Name: JPL, DUP-6-3Q21, 7/28/2021 10:15:00AM, 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		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	0.66	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	0.23	ug/L	0.50	0.15	EPA-524.2	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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Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2124077-05) and Client Sample Name (JPL, DUP-6-3Q21, 7/28/2021 10:15:00AM, Blaine Tech - L. Henderson)

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: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2124077-05	Client Sample Name: JPL, DUP-6-3Q21, 7/28/2021 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	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)	101	%	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	08/10/21 12:00	08/10/21 22:40	MGC	MS-V5	1	B116587	EPA 524.2

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Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2124077-05	Client Sample Name: JPL, DUP-6-3Q21, 7/28/2021 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	08/10/21 12:00	08/10/21	22:40	MGC	MS-V5	1	B116587	EPA 524.2

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Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2124077-05	Client Sample Name: JPL, DUP-6-3Q21, 7/28/2021 10:15:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.8	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/23/21 10:00	08/23/21 14:52	KB1	IC6	1	B117828	No Prep

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Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2124077-05	Client Sample Name: JPL, DUP-6-3Q21, 7/28/2021 10:15:00AM, Blaine Tech - L. Henderson
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00064	mg/L	0.00020	0.000020	EPA-218.6	0.000054		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/03/21 19:00	08/04/21 19:52		KEB	IC-4	1	B116088	No Prep
2	EPA-200.8	08/11/21 22:15	08/12/21 18:13		KHS	PE-EL4	1	B116799	EPA 200.2

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Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2124077-06	Client Sample Name: JPL, MW-21-2, 7/28/2021 10:45:00AM, 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		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	0.21	ug/L	0.50	0.14	EPA-524.2	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: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2124077-06	Client Sample Name: JPL, MW-21-2, 7/28/2021 10:45:00AM, 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	0.43	ug/L	0.50	0.23	EPA-524.2	ND	J	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: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2124077-06	Client Sample Name: JPL, MW-21-2, 7/28/2021 10:45:00AM, 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	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)	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	08/10/21 12:00	08/10/21 23:04	MGC	MS-V5	1	B116587	EPA 524.2

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

Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2124077-06	Client Sample Name: JPL, MW-21-2, 7/28/2021 10:45:00AM, 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	08/10/21 12:00	08/10/21	23:04	MGC	MS-V5	1	B116587	EPA 524.2

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Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2124077-06	Client Sample Name: JPL, MW-21-2, 7/28/2021 10:45:00AM, Blaine Tech - L. Henderson
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.6	ug/L	2.0	0.81	EPA-314.0	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/23/21 10:00	08/23/21 15:07	KB1	IC6	1	B117828	No Prep

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Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2124077-06	Client Sample Name: JPL, MW-21-2, 7/28/2021 10:45:00AM, Blaine Tech - L. Henderson
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000091	mg/L	0.00020	0.000020	EPA-218.6	0.000054	J	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/03/21 19:00	08/04/21 20:30		TMS	IC-4	1	B116088	No Prep
2	EPA-200.8	08/11/21 22:15	08/12/21 18:15		KHS	PE-EL4	1	B116799	EPA 200.2

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Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2124077-07	Client Sample Name: JPL, EB-8-072821, 7/28/2021 11:00:00AM, 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		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: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2124077-07	Client Sample Name: JPL, EB-8-072821, 7/28/2021 11:00:00AM, 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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3761 Attucks Drive
Powell, OH 43065

Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2124077-07	Client Sample Name: JPL, EB-8-072821, 7/28/2021 11:00:00AM, 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	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)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.5	%	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	08/10/21 12:00	08/10/21 23:28	MGC	MS-V5	1	B116587	EPA 524.2

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Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2124077-07	Client Sample Name: JPL, EB-8-072821, 7/28/2021 11:00:00AM, 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	08/10/21 12:00	08/10/21	23:28	MGC	MS-V5	1	B116587	EPA 524.2

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Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2124077-07	Client Sample Name: JPL, EB-8-072821, 7/28/2021 11:00:00AM, Blaine Tech - L. Henderson
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/23/21 10:00	08/23/21 15:22	KB1	IC6	1	B117828	No Prep

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Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2124077-07	Client Sample Name: JPL, EB-8-072821, 7/28/2021 11:00:00AM, Blaine Tech - L. Henderson
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00013	mg/L	0.00020	0.000020	EPA-218.6	0.000054	J	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/03/21 19:00	08/04/21 20:20		KEB	IC-4	1	B116088	No Prep
2	EPA-200.8	08/11/21 22:15	08/12/21 18:17		KHS	PE-EL4	1	B116799	EPA 200.2

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Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2124077-08	Client Sample Name: JPL, MW-15, 7/28/2021 2:03:00PM, Blaine Tech - L. Henderson
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00063	mg/L	0.00020	0.000020	EPA-218.6	0.000054		1
Total Recoverable Chromium	5.6	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/03/21 19:00	08/04/21 20:39		KEB	IC-4	1	B116088	No Prep
2	EPA-200.8	08/11/21 22:15	08/12/21 18:19		KHS	PE-EL4	1	B116799	EPA 200.2

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Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2124077-09	Client Sample Name: JPL, DUP-7-3Q21, 7/28/2021 2:05:00PM, Blaine Tech - L. Henderson
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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	0.000054		1
Total Recoverable Chromium	9.2	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/03/21 19:00	08/04/21 20:49		KEB	IC-4	1	B116088	No Prep
2	EPA-200.8	08/11/21 22:15	08/12/21 18:21		KHS	PE-EL4	1	B116799	EPA 200.2

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Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
QC Batch ID: B116587						
Benzene	B116587-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B116587-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B116587-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B116587-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B116587-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B116587-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B116587-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B116587-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B116587-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B116587-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B116587-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B116587-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B116587-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B116587-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B116587-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B116587-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B116587-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B116587-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B116587-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B116587-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B116587-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B116587-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B116587-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B116587-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B116587-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B116587-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B116587-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B116587-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B116587-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B116587-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B116587-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B116587-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B116587-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B116587-BLK1	ND	ug/L	0.50	0.14	

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Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
QC Batch ID: B116587						
trans-1,3-Dichloropropene	B116587-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B116587-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B116587-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B116587-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B116587-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B116587-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B116587-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B116587-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B116587-BLK1	ND	ug/L	0.50	0.12	
Styrene	B116587-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B116587-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2-Tetrachloroethane	B116587-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B116587-BLK1	ND	ug/L	0.50	0.23	
Toluene	B116587-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B116587-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B116587-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B116587-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B116587-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B116587-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B116587-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B116587-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B116587-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B116587-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B116587-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B116587-BLK1	ND	ug/L	0.50	0.18	
Acetone	B116587-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B116587-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B116587-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B116587-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B116587-BLK1	ND	ug/L	2.0	2.0	
Carbon disulfide	B116587-BLK1	ND	ug/L	0.50	0.48	
trans-1,4-Dichloro-2-butene	B116587-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B116587-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B116587-BLK1	ND	ug/L	4.0	1.3	

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Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
QC Batch ID: B116587						
Ethyl t-butyl ether	B116587-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B116587-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B116587-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B116587-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B116587-BLK1	ND	ug/L	5.0	3.3	
Methyl iodide	B116587-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B116587-BLK1	ND	ug/L	5.0	2.4	
Methyl methacrylate	B116587-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B116587-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B116587-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B116587-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B116587-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B116587-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B116587-BLK1	104	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B116587-BLK1	101	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B116587-BLK1	97.4	%	80 - 120 (LCL - UCL)		

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Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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	
QC Batch ID: B116587										
Benzene	B116587-BS1	LCS	25.530	25.000	ug/L	102		70 - 130		
Bromodichloromethane	B116587-BS1	LCS	27.980	25.000	ug/L	112		70 - 130		
Chlorobenzene	B116587-BS1	LCS	24.660	25.000	ug/L	98.6		70 - 130		
Chloroethane	B116587-BS1	LCS	26.140	25.000	ug/L	105		70 - 130		
1,4-Dichlorobenzene	B116587-BS1	LCS	25.270	25.000	ug/L	101		70 - 130		
1,1-Dichloroethane	B116587-BS1	LCS	26.050	25.000	ug/L	104		70 - 130		
1,1-Dichloroethene	B116587-BS1	LCS	26.650	25.000	ug/L	107		70 - 130		
Toluene	B116587-BS1	LCS	24.130	25.000	ug/L	96.5		70 - 130		
Trichloroethene	B116587-BS1	LCS	25.220	25.000	ug/L	101		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B116587-BS1	LCS	10.910	10.000	ug/L	109		75 - 125		
Toluene-d8 (Surrogate)	B116587-BS1	LCS	10.060	10.000	ug/L	101		80 - 120		
4-Bromofluorobenzene (Surrogate)	B116587-BS1	LCS	10.570	10.000	ug/L	106		80 - 120		

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Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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	
QC Batch ID: B116587		Used client sample: N								
Benzene	MS	2123930-07	ND	25.950	25.000	ug/L		104		70 - 130
	MSD	2123930-07	ND	26.700	25.000	ug/L	2.8	107	20	70 - 130
Bromodichloromethane	MS	2123930-07	ND	28.540	25.000	ug/L		114		70 - 130
	MSD	2123930-07	ND	28.750	25.000	ug/L	0.7	115	20	70 - 130
Chlorobenzene	MS	2123930-07	ND	24.940	25.000	ug/L		99.8		70 - 130
	MSD	2123930-07	ND	25.180	25.000	ug/L	1.0	101	20	70 - 130
Chloroethane	MS	2123930-07	ND	26.970	25.000	ug/L		108		70 - 130
	MSD	2123930-07	ND	27.240	25.000	ug/L	1.0	109	20	70 - 130
1,4-Dichlorobenzene	MS	2123930-07	ND	25.430	25.000	ug/L		102		70 - 130
	MSD	2123930-07	ND	26.260	25.000	ug/L	3.2	105	20	70 - 130
1,1-Dichloroethane	MS	2123930-07	ND	26.290	25.000	ug/L		105		70 - 130
	MSD	2123930-07	ND	27.400	25.000	ug/L	4.1	110	20	70 - 130
1,1-Dichloroethene	MS	2123930-07	ND	26.830	25.000	ug/L		107		70 - 130
	MSD	2123930-07	ND	27.460	25.000	ug/L	2.3	110	20	70 - 130
Toluene	MS	2123930-07	ND	24.740	25.000	ug/L		99.0		70 - 130
	MSD	2123930-07	ND	25.090	25.000	ug/L	1.4	100	20	70 - 130
Trichloroethene	MS	2123930-07	ND	24.430	25.000	ug/L		97.7		70 - 130
	MSD	2123930-07	ND	24.850	25.000	ug/L	1.7	99.4	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	2123930-07	ND	11.100	10.000	ug/L		111		75 - 125
	MSD	2123930-07	ND	11.020	10.000	ug/L	0.7	110		75 - 125
Toluene-d8 (Surrogate)	MS	2123930-07	ND	10.180	10.000	ug/L		102		80 - 120
	MSD	2123930-07	ND	10.010	10.000	ug/L	1.7	100		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	2123930-07	ND	10.300	10.000	ug/L		103		80 - 120
	MSD	2123930-07	ND	10.310	10.000	ug/L	0.1	103		80 - 120

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Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
QC Batch ID: B116587						
Chloroacetonitrile	B116587-BLK1	0	ug/L			
1-Chlorobutane	B116587-BLK1	0	ug/L			
1,1-Dichloropropanone	B116587-BLK1	0	ug/L			
Methyl acrylate	B116587-BLK1	0	ug/L			
Nitrobenzene	B116587-BLK1	0	ug/L			
2-Nitropropane	B116587-BLK1	0	ug/L			

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Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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
QC Batch ID: B117828						
Perchlorate	B117828-BLK1	ND	ug/L	2.0	0.81	

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Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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		
QC Batch ID: B117828											
Perchlorate	B117828-BS1	LCS	9.8676	10.000	ug/L	98.7		85 - 115			
	B117828-BSD1	LCSD	10.291	10.101	ug/L	102	4.2	85 - 115	15		

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Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
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	
QC Batch ID: B117828		Used client sample: N								
Perchlorate	DUP	2123781-10	ND	ND		ug/L			15	
	MS	2123781-10	ND	9.4877	10.000	ug/L		94.9	80 - 120	
	MSD	2123781-10	ND	9.8839	10.101	ug/L	4.1	97.9	15 80 - 120	

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Reported: 09/15/2021 15:17
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q21
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B116088						
Hexavalent Chromium	B116088-BLK1	0.000054000	mg/L	0.00020	0.000020	J
QC Batch ID: B116798						
Total Recoverable Chromium	B116798-BLK1	ND	ug/L	3.0	0.50	
QC Batch ID: B116799						
Total Recoverable Chromium	B116799-BLK1	ND	ug/L	3.0	0.50	

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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	
QC Batch ID: B116088										
Hexavalent Chromium	B116088-BS1	LCS	0.018651	0.020000	mg/L	93.3		90 - 110		
QC Batch ID: B116798										
Total Recoverable Chromium	B116798-BS1	LCS	40.940	40.000	ug/L	102		85 - 115		
QC Batch ID: B116799										
Total Recoverable Chromium	B116799-BS1	LCS	42.091	40.000	ug/L	105		85 - 115		
	B116799-BSD1	LCSD	41.361	40.000	ug/L	103	1.7	85 - 115	20	

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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	
QC Batch ID: B116088		Used client sample: N								
Hexavalent Chromium	DUP	2123930-07	0.00078800	0.00077700		mg/L	1.4		10	
	MS	2123930-07	0.00078800	0.021004	0.020202	mg/L		100		90 - 110
	MSD	2123930-07	0.00078800	0.020944	0.020202	mg/L	0.3	99.8	10	90 - 110
QC Batch ID: B116798		Used client sample: N								
Total Recoverable Chromium	DUP	2123930-04	ND	ND		ug/L			20	
	MS	2123930-04	ND	40.245	40.000	ug/L		101		70 - 130
	MSD	2123930-04	ND	41.560	40.000	ug/L	3.2	104	20	70 - 130
QC Batch ID: B116799		Used client sample: N								
Total Recoverable Chromium	DUP	2123930-07	1.6130	1.6210		ug/L	0.5		20	J
	MS	2123930-07	1.6130	41.531	40.000	ug/L		99.8		70 - 130
	MSD	2123930-07	1.6130	40.453	40.000	ug/L	2.6	97.1	20	70 - 130

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Project: JPL- GW Monitoring Wells-CLP
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Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.