

ATTACHMENT 3: LABORATORY ANALYTICAL REPORTS

This attachment contains the laboratory analytical reports prepared by Pace Analytical Environmental Sciences (formerly BC Laboratories, Inc.), of Bakersfield, California.



Date of Report: 08/17/2022

David Conner

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

Client Project: 3Q22
BCL Project: JPL- GW Monitoring Wells-CLP
BCL Work Order: 2217964
Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 8/1/2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Natalie Serda".

Contact Person: Natalie Serda
Client Service Rep

A handwritten signature in black ink that reads "Stuart Buttram".

Stuart Buttram
Operations Manager

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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Case Narratives

Case Narrative for Work Order 2217964

All samples received in 1 cooler.



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

Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Case Narrative

Sample Receipt

COC Number:

Samples received refrigerated to 1.5 °C

Sample List

<u>Lab Number</u>	<u>Date/Time Sampled</u>	<u>Sample Name</u>
2217964-01	08/01/2022 07:00	TB-1-080122
2217964-02	08/01/2022 08:20	MW-20-5
2217964-03	08/01/2022 09:05	MW-20-4
2217964-04	08/01/2022 09:20	DUP-1-3Q22
2217964-05	08/01/2022 10:10	MW-20-3
2217964-06	08/01/2022 10:30	MW-20-2
2217964-07	08/01/2022 11:30	MW-19-5
2217964-08	08/01/2022 11:50	MW-19-4
2217964-09	08/01/2022 12:15	MW-19-3
2217964-10	08/01/2022 13:00	MW-19-2
2217964-11	08/01/2022 13:15	MW-19-1
2217964-12	08/01/2022 13:30	EB-1-080122
2217964-13	08/01/2022 13:45	SB-1-080122

Requested Analysis

EPA-200.8 (TRM), EPA-218.6, EPA-314.0, EPA-524.2

<u>Sample</u>	<u>Analyte</u>	<u>Flag</u>
---------------	----------------	-------------

Sample Qualifier Summary

There are no qualifiers for the samples.

Holding Times

All holding time requirements were met.

Method Blanks

B145628-BLK1	EPA-524.2	1,1-Dichloropropanone	0 ug/L
B145628-BLK1	EPA-524.2	1-Chlorobutane	0 ug/L
B145628-BLK1	EPA-524.2	2-Nitropropane	0 ug/L
B145628-BLK1	EPA-524.2	Chloroacetonitrile	0 ug/L
B145628-BLK1	EPA-524.2	Methyl acrylate	0 ug/L
B145628-BLK1	EPA-524.2	Nitrobenzene	0 ug/L

Matrix Spikes

Precision and accuracy requirements are within QC limits.

LCS

The LCS recoveries are within QC limits.

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Reported: 08/17/2022 15:04
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Case Narrative

Discussion

PACE ANALYTICAL		COOLER RECEIPT FORM			Page <u>1</u> Of <u>2</u>						
Submission #: <u>22-17964</u>											
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace 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 checked="" type="checkbox"/> NO <input type="checkbox"/> W / S						
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: _____											
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____ Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>											
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <u>DR7</u> Container: <u>PE</u> Thermometer ID: <u>274</u>		Date/Time <u>8/1/22</u> 1912							
		Temperature: (A) <u>1.4</u> °C / (C) <u>1.5</u> °C		Analyst Init <u>PPE</u>							
SAMPLE CONTAINERS		SAMPLE NUMBERS									
		1	2	3	4	5	6	7	8	9	10
QT PE UNPRES											
4oz / 8oz / 16oz PE UNPRES			E	E	E	E	E	D	D	D	D
2oz Cr ⁴			D	D	D	D	D				
QT INORGANIC CHEMICAL METALS											
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz			F	F	F	F	F				
PT CYANIDE											
PT NITROGEN FORMS											
PT TOTAL SULFIDE											
2oz. NITRATE / NITRITE											
PT TOTAL ORGANIC CARBON											
PT CHEMICAL OXYGEN DEMAND											
Pta PHENOLICS											
40ml VOA VIAL TRAVEL BLANK		A									
40ml VOA VIAL			A-C	A-C	A-C	A-C	A-C	A-C	A-C	A-C	A-C
QT EPA 1664B											
PT ODOR											
RADIOLOGICAL											
BACTERIOLOGICAL											
40 ml VOA VIAL- 5M											
QT EPA 505/505.3/505.1A											
QT EPA 515.1/515.1A											
QT EPA 525.2											
QT EPA 525.2 TRAVEL BLANK											
40ml EPA 547											
40ml EPA 531.1											
3oz EPA 548.1											
QT EPA 569.2											
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: PPE Date/Time: 8-1-22 2030

Rev 23 0512W22

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>2</u> Of <u>2</u>	
Submission #: <u>22-17964</u>					
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO/GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace 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 checked="" type="checkbox"/> NO <input type="checkbox"/> W / S
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments:					
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <u>0.97</u> Container: <u>PE</u> Thermometer ID: <u>274</u>		Date/Time <u>8/1/22</u> 1912	
		Temperature: (A) <u>1.4</u> °C / (C) <u>1.5</u> °C		Analyst Init <u>PPE</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES	D	E	E							
2oz Cr ⁶		D	D							
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz		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										
40ml VOA VIAL	A-C	A-C	A-C							
QT EPA 1648B										
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 531.2										
5oz 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: PPE Date/Time: 8/1/22 2030
 A = Actual / C = Corrected

Rev 23 05/20/22

[S:\WP\Doc\Word\Power\LAB_DDCS\FORMS\ISAMRE\Rev 20]



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

Reported: 08/17/2022 15:04
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information					
2217964-01	COC Number:	---	Receive Date:	08/01/2022 19:12		
	Project Number:	JPL GW	Sampling Date:	08/01/2022 07:00		
	Sampling Location:	---	Sample Depth:	---		
	Sampling Point:	TB-1-080122	Lab Matrix:	Water		
	Sampled By:	BTST	Sample Type:	Trip Blank		
			Delivery Work Order:			
			Global ID:	0000000000		
			Location ID (FieldPoint):	TB-1-080122		
			Matrix:	WG		
			Sample QC Type (SACode):	CS		
		Cooler ID:				
2217964-02	COC Number:	---	Receive Date:	08/01/2022 19:12		
	Project Number:	JPL GW	Sampling Date:	08/01/2022 08:20		
	Sampling Location:	---	Sample Depth:	---		
	Sampling Point:	MW-20-5	Lab Matrix:	Water		
	Sampled By:	BTST	Sample Type:	Water		
			Delivery Work Order:			
			Global ID:	0000000000		
			Location ID (FieldPoint):	MW-20-5		
			Matrix:	WG		
			Sample QC Type (SACode):	CS		
		Cooler ID:				
2217964-03	COC Number:	---	Receive Date:	08/01/2022 19:12		
	Project Number:	JPL GW	Sampling Date:	08/01/2022 09:05		
	Sampling Location:	---	Sample Depth:	---		
	Sampling Point:	MW-20-4	Lab Matrix:	Water		
	Sampled By:	BTST	Sample Type:	Water		
			Delivery Work Order:			
			Global ID:	0000000000		
			Location ID (FieldPoint):	MW-20-4		
			Matrix:	WG		
			Sample QC Type (SACode):	CS		
		Cooler ID:				

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Reported: 08/17/2022 15:04
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
2217964-04	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: DUP-1-3Q22 Sampled By: BTST		Receive Date: 08/01/2022 19:12 Sampling Date: 08/01/2022 09:20 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): DUP-1-3Q22 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
2217964-05	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW-20-3 Sampled By: BTST		Receive Date: 08/01/2022 19:12 Sampling Date: 08/01/2022 10:10 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-20-3 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
2217964-06	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW-20-2 Sampled By: BTST		Receive Date: 08/01/2022 19:12 Sampling Date: 08/01/2022 10:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-20-2 Matrix: WG Sample QC Type (SACode): CS Cooler ID:

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Reported: 08/17/2022 15:04
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2217964-07	COC Number:	---	Receive Date: 08/01/2022 19:12	
	Project Number:	JPL GW	Sampling Date: 08/01/2022 11:30	
	Sampling Location:	---	Sample Depth: ---	
	Sampling Point:	MW-19-5	Lab Matrix: Water	
	Sampled By:	BTST	Sample Type: Water	
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-19-5	
			Matrix: WG	
			Sample QC Type (SACode): CS	
			Cooler ID:	
	<hr/>			
	2217964-08	COC Number:	---	Receive Date: 08/01/2022 19:12
Project Number:		JPL GW	Sampling Date: 08/01/2022 11:50	
Sampling Location:		---	Sample Depth: ---	
Sampling Point:		MW-19-4	Lab Matrix: Water	
Sampled By:		BTST	Sample Type: Water	
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-19-4	
			Matrix: WG	
			Sample QC Type (SACode): CS	
			Cooler ID:	
<hr/>				
2217964-09		COC Number:	---	Receive Date: 08/01/2022 19:12
	Project Number:	JPL GW	Sampling Date: 08/01/2022 12:15	
	Sampling Location:	---	Sample Depth: ---	
	Sampling Point:	MW-19-3	Lab Matrix: Water	
	Sampled By:	BTST	Sample Type: Water	
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-19-3	
			Matrix: WG	
			Sample QC Type (SACode): CS	
			Cooler ID:	

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Reported: 08/17/2022 15:04
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
2217964-10	COC Number:	---	Receive Date: 08/01/2022 19:12
	Project Number:	JPL GW	Sampling Date: 08/01/2022 13:00
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	MW-19-2	Lab Matrix: Water
	Sampled By:	BTST	Sample Type: Water
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): MW-19-2
			Matrix: WG
			Sample QC Type (SACode): CS
		Cooler ID:	
2217964-11	COC Number:	---	Receive Date: 08/01/2022 19:12
	Project Number:	JPL GW	Sampling Date: 08/01/2022 13:15
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	MW-19-1	Lab Matrix: Water
	Sampled By:	BTST	Sample Type: Water
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): MW-19-1
			Matrix: WG
			Sample QC Type (SACode): CS
		Cooler ID:	
2217964-12	COC Number:	---	Receive Date: 08/01/2022 19:12
	Project Number:	JPL GW	Sampling Date: 08/01/2022 13:30
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	EB-1-080122	Lab Matrix: Water
	Sampled By:	BTST	Sample Type: Water
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): EB-1-080122
			Matrix: WG
			Sample QC Type (SACode): CS
		Cooler ID:	

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Powell, OH 43065

Reported: 08/17/2022 15:04
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2217964-13	COC Number: ---	Receive Date: 08/01/2022 19:12
	Project Number: JPL GW	Sampling Date: 08/01/2022 13:45
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: SB-1-080122	Lab Matrix: Water
	Sampled By: BTST	Sample Type: Water
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): SB-1-080122
		Matrix: WG
		Sample QC Type (SACode): CS
		Cooler ID:

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Tidewater Inc. - Powell
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 Powell, OH 43065

Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2217964-01	Client Sample Name: JPL GW, TB-1-080122, 8/1/2022 7:00:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2217964-01 **Client Sample Name:** JPL GW, TB-1-080122, 8/1/2022 7:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2217964-01	Client Sample Name: JPL GW, TB-1-080122, 8/1/2022 7:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	98.9	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/02/22 06:00	08/02/22 13:05	MGC	MS-V5	1	B145628	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2217964-01	Client Sample Name: JPL GW, TB-1-080122, 8/1/2022 7:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/02/22 06:00	08/02/22	13:05	MGC	MS-V5	1	B145628	EPA 524.2

DCN = Data Continuation Number



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

Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2217964-02	Client Sample Name:	JPL GW, MW-20-5, 8/1/2022 8:20:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2217964-02	Client Sample Name:	JPL GW, MW-20-5, 8/1/2022 8:20:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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	0.21	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	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: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2217964-02	Client Sample Name: JPL GW, MW-20-5, 8/1/2022 8:20:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	99.3	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/02/22 06:00	08/02/22 10:17	MGC	MS-V5	1	B145628	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2217964-02	Client Sample Name: JPL GW, MW-20-5, 8/1/2022 8:20:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/02/22 06:00	08/02/22	10:17	MGC	MS-V5	1	B145628	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/17/2022 15:04
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2217964-02	Client Sample Name: JPL GW, MW-20-5, 8/1/2022 8:20:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/10/22 15:00	08/11/22 09:47	SAV	IC6	1	B146460	No Prep

DCN = Data Continuation Number

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Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2217964-02	Client Sample Name: JPL GW, MW-20-5, 8/1/2022 8:20:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00016	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

DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC	
									Batch ID	Prep Method
1	EPA-218.6	08/02/22	15:00	08/02/22	22:03	KB1	IC-4	1	B145879	No Prep
2	EPA-200.8	08/03/22	17:45	08/04/22	09:08	KHS	PE-EL4	1	B145859	EPA 200.2

DCN = Data Continuation Number

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 Powell, OH 43065

Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2217964-03 **Client Sample Name:** JPL GW, MW-20-4, 8/1/2022 9:05:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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
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Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2217964-03	Client Sample Name:	JPL GW, MW-20-4, 8/1/2022 9:05:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2217964-03	Client Sample Name: JPL GW, MW-20-4, 8/1/2022 9:05:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	96.8	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/02/22 06:00	08/02/22 10:41	MGC	MS-V5	1	B145628	EPA 524.2

DCN = Data Continuation Number



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Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2217964-03	Client Sample Name: JPL GW, MW-20-4, 8/1/2022 9:05:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/02/22 06:00	08/02/22	10:41	MGC	MS-V5	1	B145628	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/17/2022 15:04
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2217964-03	Client Sample Name: JPL GW, MW-20-4, 8/1/2022 9:05:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/10/22 15:00	08/11/22 10:03	SAV	IC6	1	B146460	No Prep

DCN = Data Continuation Number

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Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2217964-03	Client Sample Name: JPL GW, MW-20-4, 8/1/2022 9:05:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00016	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

DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC	
									Batch ID	Prep Method
1	EPA-218.6	08/02/22	15:00	08/02/22	22:51	KB1	IC-4	1	B145879	No Prep
2	EPA-200.8	08/03/22	17:45	08/04/22	09:10	KHS	PE-EL4	1	B145859	EPA 200.2

DCN = Data Continuation Number



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Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2217964-04 **Client Sample Name:** JPL GW, DUP-1-3Q22, 8/1/2022 9:20:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2217964-04 **Client Sample Name:** JPL GW, DUP-1-3Q22, 8/1/2022 9:20:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2217964-04 **Client Sample Name:** JPL GW, DUP-1-3Q22, 8/1/2022 9:20:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/02/22 06:00	08/02/22 11:05	MGC	MS-V5	1	B145628	EPA 524.2

DCN = Data Continuation Number



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

Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2217964-04	Client Sample Name: JPL GW, DUP-1-3Q22, 8/1/2022 9:20:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/02/22 06:00	08/02/22	11:05	MGC	MS-V5	1	B145628	EPA 524.2

DCN = Data Continuation Number



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

Reported: 08/17/2022 15:04
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2217964-04	Client Sample Name: JPL GW, DUP-1-3Q22, 8/1/2022 9:20:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/10/22 15:00	08/11/22 10:18	SAV	IC6	1	B146460	No Prep

DCN = Data Continuation Number

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Tidewater Inc. - Powell
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Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2217964-04	Client Sample Name: JPL GW, DUP-1-3Q22, 8/1/2022 9:20:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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

DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC	
									Batch ID	Prep Method
1	EPA-218.6	08/02/22	15:00	08/03/22	00:53	KB1	IC-4	1	B145879	No Prep
2	EPA-200.8	08/03/22	17:45	08/04/22	09:12	KHS	PE-EL4	1	B145859	EPA 200.2

DCN = Data Continuation Number

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Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2217964-05		Client Sample Name: JPL GW, MW-20-3, 8/1/2022 10:10:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2217964-05	Client Sample Name:	JPL GW, MW-20-3, 8/1/2022 10:10:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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	0.45	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	0.80	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	0.78	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: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2217964-05	Client Sample Name: JPL GW, MW-20-3, 8/1/2022 10:10:00AM
---------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	99.3	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/02/22 06:00	08/02/22 13:29	MGC	MS-V5	1	B145628	EPA 524.2

DCN = Data Continuation Number



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

Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2217964-05	Client Sample Name: JPL GW, MW-20-3, 8/1/2022 10:10:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/02/22 06:00	08/02/22	13:29	MGC	MS-V5	1	B145628	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
 3761 Attucks Drive
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Reported: 08/17/2022 15:04
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2217964-05	Client Sample Name: JPL GW, MW-20-3, 8/1/2022 10:10:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-314.0	08/10/22 15:00	08/11/22	10:33	SAV	IC6	1	B146460	No Prep

DCN = Data Continuation Number

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Tidewater Inc. - Powell
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Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2217964-05	Client Sample Name: JPL GW, MW-20-3, 8/1/2022 10:10:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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

DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC	
									Batch ID	Prep Method
1	EPA-218.6	08/02/22	15:00	08/02/22	23:55	KB1	IC-4	1	B145879	No Prep
2	EPA-200.8	08/03/22	17:45	08/04/22	09:14	KHS	PE-EL4	1	B145859	EPA 200.2

DCN = Data Continuation Number

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Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2217964-06	Client Sample Name:	JPL GW, MW-20-2, 8/1/2022 10:30:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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	0.53	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: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2217964-06	Client Sample Name:	JPL GW, MW-20-2, 8/1/2022 10:30:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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	0.35	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	0.40	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: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2217964-06	Client Sample Name: JPL GW, MW-20-2, 8/1/2022 10:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/02/22 06:00	08/02/22 13:53	MGC	MS-V5	1	B145628	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2217964-06	Client Sample Name: JPL GW, MW-20-2, 8/1/2022 10:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/02/22 06:00	08/02/22	13:53	MGC	MS-V5	1	B145628	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2217964-06	Client Sample Name: JPL GW, MW-20-2, 8/1/2022 10:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	1.2	ug/L	2.0	0.81	EPA-314.0	ND	J	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/10/22 15:00	08/11/22 10:49	SAV	IC6	1	B146460	No Prep

DCN = Data Continuation Number

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Tidewater Inc. - Powell
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Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2217964-06	Client Sample Name: JPL GW, MW-20-2, 8/1/2022 10:30:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.000089	mg/L	0.00020	0.000020	EPA-218.6	ND	J	1
Total Recoverable Chromium	0.84	ug/L	3.0	0.50	EPA-200.8	ND	J	2

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/02/22 15:00	08/03/22 00:05		KB1	IC-4	1	B145879	No Prep
2	EPA-200.8	08/03/22 17:45	08/04/22 09:16		KHS	PE-EL4	1	B145859	EPA 200.2

DCN = Data Continuation Number



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Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2217964-07	Client Sample Name:	JPL GW, MW-19-5, 8/1/2022 11:30:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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	3.3	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	0.19	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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 Powell, OH 43065

Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2217964-07	Client Sample Name:	JPL GW, MW-19-5, 8/1/2022 11:30:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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	1.6	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	0.56	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: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2217964-07	Client Sample Name: JPL GW, MW-19-5, 8/1/2022 11:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	98.5	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/02/22 06:00	08/02/22 14:17	MGC	MS-V5	1	B145628	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2217964-07	Client Sample Name: JPL GW, MW-19-5, 8/1/2022 11:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/02/22 06:00	08/02/22	14:17	MGC	MS-V5	1	B145628	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2217964-07	Client Sample Name: JPL GW, MW-19-5, 8/1/2022 11:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	2.6	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-314.0	08/10/22 15:00	08/11/22 11:04		SAV	IC6	1	B146460	No Prep

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Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2217964-08	Client Sample Name:	JPL GW, MW-19-4, 8/1/2022 11:50:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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	3.6	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	0.20	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	0.35	ug/L	0.50	0.27	EPA-524.2	ND	J	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: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2217964-08	Client Sample Name: JPL GW, MW-19-4, 8/1/2022 11:50:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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	2.0	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	0.80	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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Tidewater Inc. - Powell
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Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2217964-08	Client Sample Name: JPL GW, MW-19-4, 8/1/2022 11:50:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	99.0	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/02/22 06:00	08/02/22 14:41	MGC	MS-V5	1	B145628	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2217964-08	Client Sample Name: JPL GW, MW-19-4, 8/1/2022 11:50:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/02/22 06:00	08/02/22	14:41	MGC	MS-V5	1	B145628	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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 Powell, OH 43065

Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2217964-08	Client Sample Name: JPL GW, MW-19-4, 8/1/2022 11:50:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	2.7	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/10/22 15:00	08/11/22 11:20	SAV	IC6	1	B146460	No Prep

DCN = Data Continuation Number

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Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2217964-09	Client Sample Name:	JPL GW, MW-19-3, 8/1/2022 12:15:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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	0.21	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	0.35	ug/L	0.50	0.27	EPA-524.2	ND	J	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: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2217964-09	Client Sample Name:	JPL GW, MW-19-3, 8/1/2022 12:15:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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	2.3	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	0.79	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: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2217964-09	Client Sample Name: JPL GW, MW-19-3, 8/1/2022 12:15:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/02/22 06:00	08/02/22 15:05	MGC	MS-V5	1	B145628	EPA 524.2

DCN = Data Continuation Number



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

Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2217964-09	Client Sample Name: JPL GW, MW-19-3, 8/1/2022 12:15:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/02/22 06:00	08/02/22	15:05	MGC	MS-V5	1	B145628	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2217964-09	Client Sample Name: JPL GW, MW-19-3, 8/1/2022 12:15:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	3.5	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-314.0	08/10/22 15:00	08/11/22	12:06	SAV	IC6	1	B146460	No Prep

DCN = Data Continuation Number

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

Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2217964-10	Client Sample Name:	JPL GW, MW-19-2, 8/1/2022 1:00:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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	1.8	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: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2217964-10	Client Sample Name:	JPL GW, MW-19-2, 8/1/2022 1:00:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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	2.1	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	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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Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2217964-10	Client Sample Name: JPL GW, MW-19-2, 8/1/2022 1:00:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	99.2	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/02/22 06:00	08/02/22 15:29	MGC	MS-V5	1	B145628	EPA 524.2

DCN = Data Continuation Number



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Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2217964-10	Client Sample Name: JPL GW, MW-19-2, 8/1/2022 1:00:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/02/22 06:00	08/02/22	15:29	MGC	MS-V5	1	B145628	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2217964-10	Client Sample Name: JPL GW, MW-19-2, 8/1/2022 1:00:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	2.0	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/10/22 15:00	08/11/22 12:21	SAV	IC6	1	B146460	No Prep

DCN = Data Continuation Number

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Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2217964-11	Client Sample Name:	JPL GW, MW-19-1, 8/1/2022 1:15:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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	4.3	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: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2217964-11	Client Sample Name:	JPL GW, MW-19-1, 8/1/2022 1:15:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2217964-11	Client Sample Name: JPL GW, MW-19-1, 8/1/2022 1:15:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	99.2	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/02/22 06:00	08/02/22 15:53	MGC	MS-V5	1	B145628	EPA 524.2

DCN = Data Continuation Number

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Tidewater Inc. - Powell
 3761 Attucks Drive
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Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2217964-11	Client Sample Name: JPL GW, MW-19-1, 8/1/2022 1:15:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/02/22 06:00	08/02/22	15:53	MGC	MS-V5	1	B145628	EPA 524.2

DCN = Data Continuation Number



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Reported: 08/17/2022 15:04
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2217964-11	Client Sample Name: JPL GW, MW-19-1, 8/1/2022 1:15:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-314.0	08/10/22 15:00	08/11/22	12:36	SAV	IC6	1	B146461	No Prep

DCN = Data Continuation Number

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Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2217964-12 **Client Sample Name:** JPL GW, EB-1-080122, 8/1/2022 1:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2217964-12	Client Sample Name:	JPL GW, EB-1-080122, 8/1/2022 1:30:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2217964-12 **Client Sample Name:** JPL GW, EB-1-080122, 8/1/2022 1:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	99.0	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/02/22 06:00	08/02/22 16:17	MGC	MS-V5	1	B145628	EPA 524.2

DCN = Data Continuation Number



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Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2217964-12	Client Sample Name: JPL GW, EB-1-080122, 8/1/2022 1:30:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/02/22 06:00	08/02/22	16:17	MGC	MS-V5	1	B145628	EPA 524.2

DCN = Data Continuation Number



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Reported: 08/17/2022 15:04
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2217964-12	Client Sample Name: JPL GW, EB-1-080122, 8/1/2022 1:30:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-314.0	08/10/22 15:00	08/11/22	12:52	SAV	IC6	1	B146461	No Prep

DCN = Data Continuation Number

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Reported: 08/17/2022 15:04
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2217964-12	Client Sample Name: JPL GW, EB-1-080122, 8/1/2022 1:30:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.000078	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/02/22 15:00	08/03/22 00:14		KB1	IC-4	1	B145879	No Prep
2	EPA-200.8	08/03/22 17:45	08/04/22 09:18		KHS	PE-EL4	1	B145859	EPA 200.2

DCN = Data Continuation Number



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Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2217964-13 **Client Sample Name:** JPL GW, SB-1-080122, 8/1/2022 1:45:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2217964-13	Client Sample Name:	JPL GW, SB-1-080122, 8/1/2022 1:45:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1	
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1	
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1	
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1	
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1	
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1	
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1	
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1	

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

Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2217964-13 **Client Sample Name:** JPL GW, SB-1-080122, 8/1/2022 1:45:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	99.7	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/02/22 06:00	08/02/22 16:41	MGC	MS-V5	1	B145628	EPA 524.2

DCN = Data Continuation Number



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Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2217964-13	Client Sample Name: JPL GW, SB-1-080122, 8/1/2022 1:45:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/02/22 06:00	08/02/22	16:41	MGC	MS-V5	1	B145628	EPA 524.2

DCN = Data Continuation Number



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Reported: 08/17/2022 15:04
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2217964-13	Client Sample Name: JPL GW, SB-1-080122, 8/1/2022 1:45:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC	
									Batch ID	Prep Method
1	EPA-314.0	08/10/22	15:00	08/11/22	13:07	SAV	IC6	1	B146461	No Prep

DCN = Data Continuation Number

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Reported: 08/17/2022 15:04
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2217964-13	Client Sample Name: JPL GW, SB-1-080122, 8/1/2022 1:45:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00011	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

DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC	
									Batch ID	Prep Method
1	EPA-218.6	08/02/22	15:00	08/03/22	00:24	KB1	IC-4	1	B145879	No Prep
2	EPA-200.8	08/03/22	17:45	08/04/22	09:20	KHS	PE-EL4	1	B145859	EPA 200.2

DCN = Data Continuation Number



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Reported: 08/17/2022 15:04
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 Project Number: 3Q22
 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: B145628						
Benzene	B145628-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B145628-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B145628-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B145628-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B145628-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B145628-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B145628-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B145628-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B145628-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B145628-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B145628-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B145628-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B145628-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B145628-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B145628-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B145628-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B145628-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B145628-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B145628-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B145628-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B145628-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B145628-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B145628-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B145628-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B145628-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B145628-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B145628-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B145628-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B145628-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B145628-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B145628-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B145628-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B145628-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B145628-BLK1	ND	ug/L	0.50	0.14	

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Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B145628						
trans-1,3-Dichloropropene	B145628-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B145628-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B145628-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B145628-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B145628-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B145628-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B145628-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B145628-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B145628-BLK1	ND	ug/L	0.50	0.12	
Styrene	B145628-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B145628-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2,2-Tetrachloroethane	B145628-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B145628-BLK1	ND	ug/L	0.50	0.23	
Toluene	B145628-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B145628-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B145628-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B145628-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B145628-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B145628-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B145628-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B145628-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B145628-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B145628-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B145628-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B145628-BLK1	ND	ug/L	0.50	0.18	
Acetone	B145628-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B145628-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B145628-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B145628-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B145628-BLK1	ND	ug/L	2.0	2.0	
Carbon disulfide	B145628-BLK1	ND	ug/L	0.50	0.48	
trans-1,4-Dichloro-2-butene	B145628-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B145628-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B145628-BLK1	ND	ug/L	4.0	1.3	

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Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B145628						
Ethyl t-butyl ether	B145628-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B145628-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B145628-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B145628-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B145628-BLK1	ND	ug/L	5.0	3.3	
Methyl iodide	B145628-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B145628-BLK1	ND	ug/L	5.0	2.4	
Methyl methacrylate	B145628-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B145628-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B145628-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B145628-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B145628-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B145628-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B145628-BLK1	95.7	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B145628-BLK1	97.8	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B145628-BLK1	99.5	%	80 - 120 (LCL - UCL)		

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Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B145628										
Benzene	B145628-BS1	LCS	25.010	25.000	ug/L	100		70 - 130		
Bromodichloromethane	B145628-BS1	LCS	21.770	25.000	ug/L	87.1		70 - 130		
Chlorobenzene	B145628-BS1	LCS	23.890	25.000	ug/L	95.6		70 - 130		
Chloroethane	B145628-BS1	LCS	27.280	25.000	ug/L	109		70 - 130		
1,4-Dichlorobenzene	B145628-BS1	LCS	24.930	25.000	ug/L	99.7		70 - 130		
1,1-Dichloroethane	B145628-BS1	LCS	24.140	25.000	ug/L	96.6		70 - 130		
1,1-Dichloroethene	B145628-BS1	LCS	25.560	25.000	ug/L	102		70 - 130		
Toluene	B145628-BS1	LCS	23.600	25.000	ug/L	94.4		70 - 130		
Trichloroethene	B145628-BS1	LCS	22.290	25.000	ug/L	89.2		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B145628-BS1	LCS	9.9100	10.000	ug/L	99.1		75 - 125		
Toluene-d8 (Surrogate)	B145628-BS1	LCS	9.8700	10.000	ug/L	98.7		80 - 120		
4-Bromofluorobenzene (Surrogate)	B145628-BS1	LCS	10.010	10.000	ug/L	100		80 - 120		

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Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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		
								Percent Recovery	RPD	Percent Recovery
QC Batch ID: B145628		Used client sample: Y - Description: MW-20-5, 08/01/2022 08:20								
Benzene	MS	2217964-02	ND	25.240	25.000	ug/L		101		70 - 130
	MSD	2217964-02	ND	25.230	25.000	ug/L	0.0	101	20	70 - 130
Bromodichloromethane	MS	2217964-02	ND	21.470	25.000	ug/L		85.9		70 - 130
	MSD	2217964-02	ND	21.530	25.000	ug/L	0.3	86.1	20	70 - 130
Chlorobenzene	MS	2217964-02	ND	24.340	25.000	ug/L		97.4		70 - 130
	MSD	2217964-02	ND	24.130	25.000	ug/L	0.9	96.5	20	70 - 130
Chloroethane	MS	2217964-02	ND	27.710	25.000	ug/L		111		70 - 130
	MSD	2217964-02	ND	28.110	25.000	ug/L	1.4	112	20	70 - 130
1,4-Dichlorobenzene	MS	2217964-02	ND	25.960	25.000	ug/L		104		70 - 130
	MSD	2217964-02	ND	25.590	25.000	ug/L	1.4	102	20	70 - 130
1,1-Dichloroethane	MS	2217964-02	ND	24.060	25.000	ug/L		96.2		70 - 130
	MSD	2217964-02	ND	24.250	25.000	ug/L	0.8	97.0	20	70 - 130
1,1-Dichloroethene	MS	2217964-02	ND	25.720	25.000	ug/L		103		70 - 130
	MSD	2217964-02	ND	25.980	25.000	ug/L	1.0	104	20	70 - 130
Toluene	MS	2217964-02	ND	23.310	25.000	ug/L		93.2		70 - 130
	MSD	2217964-02	ND	23.010	25.000	ug/L	1.3	92.0	20	70 - 130
Trichloroethene	MS	2217964-02	ND	22.510	25.000	ug/L		90.0		70 - 130
	MSD	2217964-02	ND	22.200	25.000	ug/L	1.4	88.8	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	2217964-02	ND	10.240	10.000	ug/L		102		75 - 125
	MSD	2217964-02	ND	10.300	10.000	ug/L	0.6	103		75 - 125
Toluene-d8 (Surrogate)	MS	2217964-02	ND	9.7600	10.000	ug/L		97.6		80 - 120
	MSD	2217964-02	ND	9.6900	10.000	ug/L	0.7	96.9		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	2217964-02	ND	9.9800	10.000	ug/L		99.8		80 - 120
	MSD	2217964-02	ND	9.9700	10.000	ug/L	0.1	99.7		80 - 120

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Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
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: B145628						
Nitrobenzene	B145628-BLK1	0	ug/L			
Methyl acrylate	B145628-BLK1	0	ug/L			
Chloroacetonitrile	B145628-BLK1	0	ug/L			
2-Nitropropane	B145628-BLK1	0	ug/L			
1-Chlorobutane	B145628-BLK1	0	ug/L			
1,1-Dichloropropanone	B145628-BLK1	0	ug/L			

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Reported: 08/17/2022 15:04
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
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: B146460						
Perchlorate	B146460-BLK1	ND	ug/L	2.0	0.81	
QC Batch ID: B146461						
Perchlorate	B146461-BLK1	ND	ug/L	2.0	0.81	

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

Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146460										
Perchlorate	B146460-BS1	LCS	9.3831	10.000	ug/L	93.8		85 - 115		
QC Batch ID: B146461										
Perchlorate	B146461-BS1	LCS	9.8606	10.000	ug/L	98.6		85 - 115		
	B146461-BSD1	LCSD	10.432	10.000	ug/L	104	5.6	85 - 115		15

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

Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146460		Used client sample: N									
Perchlorate	DUP	2217846-13	ND	ND		ug/L				15	
	MS	2217846-13	ND	8.9732	10.101	ug/L		88.8		80 - 120	
	MSD	2217846-13	ND	8.8424	10.101	ug/L	1.5	87.5	15	80 - 120	
QC Batch ID: B146461		Used client sample: N									
Perchlorate	DUP	2217855-02	ND	ND		ug/L				15	
	MS	2217855-02	ND	10.314	10.101	ug/L		102		80 - 120	
	MSD	2217855-02	ND	10.155	10.101	ug/L	1.6	101	15	80 - 120	

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

Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B145859						
Total Recoverable Chromium	B145859-BLK1	ND	ug/L	3.0	0.50	
QC Batch ID: B145879						
Hexavalent Chromium	B145879-BLK1	ND	mg/L	0.00020	0.000020	

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

Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B145859										
Total Recoverable Chromium	B145859-BS1	LCS	38.560	40.000	ug/L	96.4		85 - 115		
QC Batch ID: B145879										
Hexavalent Chromium	B145879-BS1	LCS	0.019481	0.020000	mg/L	97.4		90 - 110		
	B145879-BSD1	LCSD	0.020189	0.020000	mg/L	101	3.6	90 - 110		10

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

Reported: 08/17/2022 15:04
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab
									RPD	Percent Recovery	
QC Batch ID: B145859		Used client sample: N									
Total Recoverable Chromium	DUP	2215646-01	ND	ND		ug/L			20		
	MS	2215646-01	ND	38.604	40.000	ug/L		96.5		70 - 130	
	MSD	2215646-01	ND	37.127	40.000	ug/L	3.9	92.8	20	70 - 130	
QC Batch ID: B145879		Used client sample: Y - Description: MW-20-5, 08/01/2022 08:20									
Hexavalent Chromium	DUP	2217964-02	0.00016500	0.00016500		mg/L	0		10		J
	MS	2217964-02	0.00016500	0.019238	0.020202	mg/L		94.4		90 - 110	
	MSD	2217964-02	0.00016500	0.019724	0.020202	mg/L	2.5	96.8	10	90 - 110	

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

Reported: 08/17/2022 15:04
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Notes And Definitions

J Estimated Value (CLP Flag)
MDL Method Detection Limit
ND Analyte Not Detected
PQL Practical Quantitation Limit



Date of Report: 08/23/2022

David Conner

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

Client Project: 3Q22
BCL Project: JPL- GW Monitoring Wells-CLP
BCL Work Order: 2218155
Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 8/2/2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda
Client Service Rep

Stuart Buttram
Operations Manager

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

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Case Narratives

Case Narrative for Work Order 2218155

All Samples received in 1 cooler.



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

Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Case Narrative

Sample Receipt

COC Number:

Samples received refrigerated to 4 °C

Sample List

<u>Lab Number</u>	<u>Date/Time Sampled</u>	<u>Sample Name</u>
2218155-01	08/02/2022 07:00	TB-2-080222
2218155-02	08/02/2022 07:45	MW-14-5
2218155-03	08/02/2022 08:10	MW-14-4
2218155-04	08/02/2022 08:45	MW-14-3
2218155-05	08/02/2022 09:15	MW-14-2
2218155-06	08/02/2022 10:45	MW-25-5
2218155-07	08/02/2022 11:20	MW-25-4
2218155-08	08/02/2022 11:45	MW-25-3
2218155-09	08/02/2022 13:00	MW-25-2
2218155-10	08/02/2022 13:15	DUP-2-3Q22
2218155-11	08/02/2022 13:45	MW-25-1
2218155-12	08/02/2022 14:00	EB-2-080222

Requested Analysis

EPA-200.8 (TRM), EPA-218.6, EPA-314.0, EPA-524.2

<u>Sample</u>	<u>Analyte</u>	<u>Flag</u>
Sample Qualifier Summary		
2218155-01	EPA-524.2	Methyl iodide
2218155-02	EPA-524.2	Methyl iodide
2218155-03	EPA-524.2	Methyl iodide
2218155-04	EPA-524.2	Methyl iodide
2218155-05	EPA-524.2	Methyl iodide
2218155-06	EPA-524.2	Methyl iodide
2218155-07	EPA-524.2	Methyl iodide
2218155-08	EPA-524.2	Methyl iodide
2218155-09	EPA-524.2	Methyl iodide
2218155-10	EPA-524.2	Methyl iodide
2218155-11	EPA-524.2	Methyl iodide
2218155-12	EPA-524.2	Methyl iodide

Holding Times

All holding time requirements were met.



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

Reported: 08/23/2022 15:08
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Case Narrative

<u>Sample</u>		<u>Analyte</u>	<u>Flag</u>
Method Blanks			
B145733-BLK1	EPA-524.2	1,1-Dichloropropanone	0 ug/L
B145733-BLK1	EPA-524.2	1-Chlorobutane	0 ug/L
B145733-BLK1	EPA-524.2	2-Nitropropane	0 ug/L
B145733-BLK1	EPA-524.2	Chloroacetonitrile	0 ug/L
B145733-BLK1	EPA-524.2	Methyl acrylate	0 ug/L
B145733-BLK1	EPA-524.2	Nitrobenzene	0 ug/L

Matrix Spikes

Precision and accuracy requirements are within QC limits.

LCS

The LCS recoveries are within QC limits.

Discussion

Summary of Flags

V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.

Chain of Custody Form



Page 1 of 2

Report To: Tidewater, Inc.
Client: Tidewater, Inc.
Attn: David Conner
Street Address: 3761 Attucks Drive
City: Powell **State:** OH **Zip:** 43066
Phone: 626 288 5715 **Fax:** 614 792 2897
Email Address: david.conner@tideh2o.net
Submission #: 22-18155

Project Description: JPL-GW Monitoring
Project Code: 3Q22
Sampler (s): Blaine Tech

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

Billing:
Client: Tidewater
Attn: David Conner
Address: 3761 Attucks Drive
City: Powell **State:** OH **Zip:** 43066
 Are there any tests with holding times? less than or equal to 48 hours?
 Yes No
 *Standard Turnaround = 30

Sample #	Sample Description	Date	Time	Matrix*
-1	MB-2-0802-22	08/02/22	0700	W
-2	MW-14-5	0810	0810	W
-3	MW-14-4	0815	0815	W
-4	MW-14-3	0815	0815	W
-5	MW-14-2	0815	0815	W
-6	MW-25-5	1045	1045	W
-7	MW-25-4	1120	1120	W
-8	MW-25-3	1145	1145	W
-9	MW-25-2	1300	1300	W
-10	DUP-2-3622	1315	1315	W
-11	MW-25-1	1345	1345	W

Notes:
 Labors to please select 2 SDGS for level Evaluation
 M3/MSD @ MW-14-4

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: 08/02/22 Time: 1415
 2. Relinquished By: _____ Date: 08/02/22 Time: 2000
 3. Relinquished By: _____ Date: 08/02/22 Time: 2000

Global ID: _____
 1. Relinquished By: _____ Date: 08/02/22 Time: 1415
 2. Relinquished By: _____ Date: 08/02/22 Time: 2000
 3. Relinquished By: _____ Date: 08/02/22 Time: 2000

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

CHK BY: MVB SUB OUT

DISTRIBUTION

DO Cl₂ BOD MBAS COT

NO₃ NO₂ OP SS

HOLDING TIME

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BC Laboratories, Inc. Chain of Custody Form

Page 2 of 2

***Required Fields**

Reason for Client: Tidewater, Inc. Client: David Connor Attn: David Connor Street Address: 3761 Attucks Drive City: Powell State: OH Zip: 43065 Phone: 626 288 5715 Fax: 614 792 2897 Email Address: David Connor@bidet2o.net	Project Description: JPL-GW Monitoring Project Code: 3Q22 Sampler(s): Blaine Tech	Billing Client: Tidewater Attn: David Connor Address: 3761 Attucks 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	<table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th>Analysis Requested</th> <th>Date</th> <th>Time</th> <th>Matrix*</th> </tr> </thead> <tbody> <tr> <td>VOCs EPA 524.2</td> <td>8/12/22</td> <td>1400</td> <td>W</td> </tr> <tr> <td>TRM: Cr</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Perchlorate</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Hexavalent Cr6 -218.6 (mg/L)</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Cl, NO3, NO2, SO4</td> <td></td> <td></td> <td></td> </tr> <tr> <td>Orthophosphate 365.1</td> <td></td> <td></td> <td></td> </tr> </tbody> </table>	Analysis Requested	Date	Time	Matrix*	VOCs EPA 524.2	8/12/22	1400	W	TRM: Cr				Perchlorate				Hexavalent Cr6 -218.6 (mg/L)				Cl, NO3, NO2, SO4				Orthophosphate 365.1			
Analysis Requested	Date	Time	Matrix*																												
VOCs EPA 524.2	8/12/22	1400	W																												
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 M = Miscellaneous O = Other

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

Lab TAT Approval: _____ *Additional Charges May Apply

Comments: PLEASE NOTATE WHICH SAMPLES TO USE FOR OC (MS/MSD) 90% Level III and 10% Level IV data validation required; Level IV Notated on C of C NOTE: ALL ANALYSIS REQUIRED TO HAVE CALIBRATION SUMMARIES (Inform OC)	Cost Center: 1. Relinquished By: _____ Date: _____ Time: _____ 2. Relinquished By: _____ Date: _____ Time: _____ 3. Relinquished By: _____ Date: _____ Time: _____
--	--

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>1</u> Of <u>2</u>	
Submission #: <u>22-18155</u>					
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"/>			Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/>		YES <input checked="" type="checkbox"/> NO <input type="checkbox"/>
Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			Other <input type="checkbox"/> (Specify) _____		<u>W</u> / <u>S</u>
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals		Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____			
Ice Chest <input type="checkbox"/>		Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>			
Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>		Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>			
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received		Emissivity: <u>0.17</u>		Date/Time <u>8-2-22 2:10</u>	
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Container: <u>PE</u>		Thermometer ID: <u>214</u>	
		Temperature: (A) <u>3.9</u> °C / (C) <u>4.0</u> °C		Analyst Init <u>RJS</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / <u>16oz</u> PE UNPRES		D	G	H	E	E	E	E	E	E
2oz Cr ⁶				D	D	D	D	D	D	D
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz <u>8oz</u> / 16oz				F	F	F	F	F	F	F
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A									
40ml VOA VIAL		A-C	A-F	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- 504										
QT EPA 508/608 3/8/81A										
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: PRE Date/Time: 8/2/22 2:30
 A = Actual / C = Corrected

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>2</u> Of <u>2</u>							
Submission #: <u>22-18155</u>											
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace 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 checked="" type="checkbox"/> NO <input type="checkbox"/> <u>W</u> / <u>S</u>						
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments:											
Custody Seals Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments:											
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <u>0.97</u> Container: <u>PE</u> Thermometer ID: <u>274</u> Temperature: (A) <u>3.9</u> °C / (C) <u>4.0</u> °C		Date/Time <u>8-2-22</u> <u>10:00</u> Analyst Init <u>RJS</u>							
SAMPLE CONTAINERS		SAMPLE NUMBERS									
		1	2	3	4	5	6	7	8	9	10
QT PE UNPRES											
4oz / 8oz / 16oz PE UNPRES		<u>E</u>	<u>E</u>								
2oz Cr ⁶		<u>D</u>	<u>D</u>								
QT INORGANIC CHEMICAL METALS											
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz		<u>F</u>	<u>F</u>								
PT CYANIDE											
PT NITROGEN FORMS											
PT TOTAL SULFIDE											
3oz. NITRATE / NITRITE											
PT TOTAL ORGANIC CARBON											
PT CHEMICAL OXYGEN DEMAND											
PIA PHENOLICS											
40ml VOA VIAL TRAVEL BLANK											
40ml VOA VIAL		<u>A-C</u>	<u>A-C</u>								
QT EPA 1664B											
PT ODOR											
RADIOLOGICAL											
BACTERIOLOGICAL											
40 ml VOA VIAL - 504											
QT EPA 508/508 J/8051A											
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: PRE Date/Time: 8/2/22 2:30 Rev 25 05/23/22
 A = Actual / C = Corrected [B:\NP\Doc\Work\PerfectLAB_DGCS\F0MVS\BAMRECrev 26]



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

Reported: 08/23/2022 15:08
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
2218155-01	COC Number:	---	Receive Date: 08/02/2022 20:00
	Project Number:	JPL GW	Sampling Date: 08/02/2022 07:00
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	TB-2-080222	Lab Matrix: Water
	Sampled By:	BTST	Sample Type: Trip Blank
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): TB-2-080222
			Matrix: WG
			Sample QC Type (SACode): CS
		Cooler ID:	
2218155-02	COC Number:	---	Receive Date: 08/02/2022 20:00
	Project Number:	JPL GW	Sampling Date: 08/02/2022 07:45
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	MW-14-5	Lab Matrix: Water
	Sampled By:	BTST	Sample Type: Water
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): MW-14-5
			Matrix: WG
			Sample QC Type (SACode): CS
		Cooler ID:	
2218155-03	COC Number:	---	Receive Date: 08/02/2022 20:00
	Project Number:	JPL GW	Sampling Date: 08/02/2022 08:10
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	MW-14-4	Lab Matrix: Water
	Sampled By:	BTST	Sample Type: Water
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): MW-14-4
			Matrix: WG
			Sample QC Type (SACode): CS
		Cooler ID:	

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

Reported: 08/23/2022 15:08
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
2218155-04	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW-14-3 Sampled By: BTST		Receive Date: 08/02/2022 20:00 Sampling Date: 08/02/2022 08:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-14-3 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
2218155-05	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW-14-2 Sampled By: BTST		Receive Date: 08/02/2022 20:00 Sampling Date: 08/02/2022 09:15 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-14-2 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
2218155-06	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW-25-5 Sampled By: BTST		Receive Date: 08/02/2022 20:00 Sampling Date: 08/02/2022 10:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-25-5 Matrix: WG Sample QC Type (SACode): CS Cooler ID:

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Reported: 08/23/2022 15:08
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
2218155-07	COC Number:	---	Receive Date: 08/02/2022 20:00
	Project Number:	JPL GW	Sampling Date: 08/02/2022 11:20
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	MW-25-4	Lab Matrix: Water
	Sampled By:	BTST	Sample Type: Water
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): MW-25-4
			Matrix: WG
			Sample QC Type (SACode): CS
		Cooler ID:	
2218155-08	COC Number:	---	Receive Date: 08/02/2022 20:00
	Project Number:	JPL GW	Sampling Date: 08/02/2022 11:45
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	MW-25-3	Lab Matrix: Water
	Sampled By:	BTST	Sample Type: Water
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): MW-25-3
			Matrix: WG
			Sample QC Type (SACode): CS
		Cooler ID:	
2218155-09	COC Number:	---	Receive Date: 08/02/2022 20:00
	Project Number:	JPL GW	Sampling Date: 08/02/2022 13:00
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	MW-25-2	Lab Matrix: Water
	Sampled By:	BTST	Sample Type: Water
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): MW-25-2
			Matrix: WG
			Sample QC Type (SACode): CS
		Cooler ID:	

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Tidewater Inc. - Powell
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Reported: 08/23/2022 15:08
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information					
2218155-10	COC Number:	---	Receive Date:	08/02/2022 20:00		
	Project Number:	JPL GW	Sampling Date:	08/02/2022 13:15		
	Sampling Location:	---	Sample Depth:	---		
	Sampling Point:	DUP-2-3Q22	Lab Matrix:	Water		
	Sampled By:	BTST	Sample Type:	Water		
			Delivery Work Order:			
			Global ID:	0000000000		
			Location ID (FieldPoint):	DUP-2-3Q22		
			Matrix:	WG		
			Sample QC Type (SACode):	CS		
		Cooler ID:				
2218155-11	COC Number:	---	Receive Date:	08/02/2022 20:00		
	Project Number:	JPL GW	Sampling Date:	08/02/2022 13:45		
	Sampling Location:	---	Sample Depth:	---		
	Sampling Point:	MW-25-1	Lab Matrix:	Water		
	Sampled By:	BTST	Sample Type:	Water		
			Delivery Work Order:			
			Global ID:	0000000000		
			Location ID (FieldPoint):	MW-25-1		
			Matrix:	WG		
			Sample QC Type (SACode):	CS		
		Cooler ID:				
2218155-12	COC Number:	---	Receive Date:	08/02/2022 20:00		
	Project Number:	JPL GW	Sampling Date:	08/02/2022 14:00		
	Sampling Location:	---	Sample Depth:	---		
	Sampling Point:	EB-2-080222	Lab Matrix:	Water		
	Sampled By:	BTST	Sample Type:	Water		
			Delivery Work Order:			
			Global ID:	0000000000		
			Location ID (FieldPoint):	EB-2-080222		
			Matrix:	WG		
			Sample QC Type (SACode):	CS		
		Cooler ID:				

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 Powell, OH 43065

Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218155-01 **Client Sample Name:** JPL GW, TB-2-080222, 8/2/2022 7:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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
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 Powell, OH 43065

Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218155-01	Client Sample Name:	JPL GW, TB-2-080222, 8/2/2022 7:00:00AM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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

Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218155-01	Client Sample Name: JPL GW, TB-2-080222, 8/2/2022 7:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	94.0	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/03/22 06:00	08/03/22 09:54	MGC	MS-V5	1	B145733	EPA 524.2

DCN = Data Continuation Number



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

Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218155-01	Client Sample Name: JPL GW, TB-2-080222, 8/2/2022 7:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/03/22 06:00	08/03/22	09:54	MGC	MS-V5	1	B145733	EPA 524.2

DCN = Data Continuation Number



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

Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218155-02	Client Sample Name:	JPL GW, MW-14-5, 8/2/2022 7:45:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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	0.14	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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Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218155-02		Client Sample Name: JPL GW, MW-14-5, 8/2/2022 7:45:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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	0.15	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	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: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218155-02	Client Sample Name: JPL GW, MW-14-5, 8/2/2022 7:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	94.7	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/03/22 06:00	08/03/22 10:18	MGC	MS-V5	1	B145733	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218155-02	Client Sample Name: JPL GW, MW-14-5, 8/2/2022 7:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/03/22 06:00	08/03/22	10:18	MGC	MS-V5	1	B145733	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/23/2022 15:08
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218155-02	Client Sample Name: JPL GW, MW-14-5, 8/2/2022 7:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/15/22 13:00	08/15/22 15:18	KB1	IC6	1	B146694	No Prep

DCN = Data Continuation Number

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Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218155-03	Client Sample Name:	JPL GW, MW-14-4, 8/2/2022 8:10:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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	0.24	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: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218155-03	Client Sample Name:	JPL GW, MW-14-4, 8/2/2022 8:10:00AM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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	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: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218155-03	Client Sample Name: JPL GW, MW-14-4, 8/2/2022 8:10:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	89.4	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/03/22 06:00	08/03/22 07:30	MGC	MS-V5	1	B145733	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218155-03	Client Sample Name: JPL GW, MW-14-4, 8/2/2022 8:10:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/03/22 06:00	08/03/22	07:30	MGC	MS-V5	1	B145733	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/23/2022 15:08
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218155-03	Client Sample Name: JPL GW, MW-14-4, 8/2/2022 8:10:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	3.7	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/15/22 13:00	08/15/22 15:33	KB1	IC6	1	B146694	No Prep

DCN = Data Continuation Number

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Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218155-04	Client Sample Name:	JPL GW, MW-14-3, 8/2/2022 8:45:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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	0.51	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	0.39	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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Tidewater Inc. - Powell
 3761 Attucks Drive
 Powell, OH 43065

Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218155-04 **Client Sample Name:** JPL GW, MW-14-3, 8/2/2022 8:45:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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	0.67	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	0.94	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: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218155-04	Client Sample Name: JPL GW, MW-14-3, 8/2/2022 8:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	97.4	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/03/22 06:00	08/03/22 10:42	MGC	MS-V5	1	B145733	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218155-04	Client Sample Name: JPL GW, MW-14-3, 8/2/2022 8:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/03/22 06:00	08/03/22	10:42	MGC	MS-V5	1	B145733	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218155-04	Client Sample Name: JPL GW, MW-14-3, 8/2/2022 8:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	4.2	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-314.0	08/15/22 13:00	08/15/22 17:05		KB1	IC6	1	B146694	No Prep

DCN = Data Continuation Number

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Reported: 08/23/2022 15:08
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218155-04	Client Sample Name: JPL GW, MW-14-3, 8/2/2022 8:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00031	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/04/22 08:00	08/04/22	11:22	SAV	IC-4	1	B145926	No Prep
2	EPA-200.8	08/04/22 09:40	08/05/22	10:58	ARD	PE-EL4	1	B145890	EPA 200.2

DCN = Data Continuation Number

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Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218155-05	Client Sample Name:	JPL GW, MW-14-2, 8/2/2022 9:15:00AM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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	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: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218155-05	Client Sample Name: JPL GW, MW-14-2, 8/2/2022 9:15:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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	0.56	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	1.8	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: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218155-05	Client Sample Name: JPL GW, MW-14-2, 8/2/2022 9:15:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	96.5	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	93.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/03/22 06:00	08/03/22 11:06	MGC	MS-V5	1	B145733	EPA 524.2

DCN = Data Continuation Number



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

Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218155-05	Client Sample Name: JPL GW, MW-14-2, 8/2/2022 9:15:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/03/22 06:00	08/03/22	11:06	MGC	MS-V5	1	B145733	EPA 524.2

DCN = Data Continuation Number



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

Reported: 08/23/2022 15:08
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218155-05	Client Sample Name: JPL GW, MW-14-2, 8/2/2022 9:15:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	3.2	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/15/22 13:00	08/15/22 17:20	KB1	IC6	1	B146694	No Prep

DCN = Data Continuation Number

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Reported: 08/23/2022 15:08
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218155-05	Client Sample Name: JPL GW, MW-14-2, 8/2/2022 9:15:00AM								
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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	

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/04/22 08:00	08/04/22	14:15	SAV	IC-4	1	B145926	No Prep
2	EPA-200.8	08/04/22 09:40	08/05/22	11:00	ARD	PE-EL4	1	B145890	EPA 200.2

DCN = Data Continuation Number

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Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218155-06	Client Sample Name:	JPL GW, MW-25-5, 8/2/2022 10:45:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218155-06	Client Sample Name: JPL GW, MW-25-5, 8/2/2022 10:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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

Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218155-06	Client Sample Name: JPL GW, MW-25-5, 8/2/2022 10:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	96.5	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/03/22 06:00	08/03/22 11:30	MGC	MS-V5	1	B145733	EPA 524.2

DCN = Data Continuation Number



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

Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218155-06	Client Sample Name: JPL GW, MW-25-5, 8/2/2022 10:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/03/22 06:00	08/03/22	11:30	MGC	MS-V5	1	B145733	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
 3761 Attucks Drive
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Reported: 08/23/2022 15:08
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218155-06	Client Sample Name: JPL GW, MW-25-5, 8/2/2022 10:45:00AM
----------------------------------	---

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

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/15/22 13:00	08/15/22 17:36	KB1	IC6	1	B146694	No Prep

DCN = Data Continuation Number

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Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218155-06	Client Sample Name: JPL GW, MW-25-5, 8/2/2022 10:45:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.000099	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/04/22 08:00	08/04/22	12:10	RC1	IC-4	1	B145926	No Prep
2	EPA-200.8	08/04/22 09:40	08/05/22	11:01	ARD	PE-EL4	1	B145890	EPA 200.2

DCN = Data Continuation Number

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Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218155-07	Client Sample Name: JPL GW, MW-25-4, 8/2/2022 11:20:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218155-07	Client Sample Name:	JPL GW, MW-25-4, 8/2/2022 11:20:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1	
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1	
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1	
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1	
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1	
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1	
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1	
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1	

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

Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218155-07	Client Sample Name: JPL GW, MW-25-4, 8/2/2022 11:20:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	94.3	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/03/22 06:00	08/03/22 11:54	MGC	MS-V5	1	B145733	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218155-07	Client Sample Name: JPL GW, MW-25-4, 8/2/2022 11:20:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/03/22 06:00	08/03/22	11:54	MGC	MS-V5	1	B145733	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
 3761 Attucks Drive
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Reported: 08/23/2022 15:08
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218155-07	Client Sample Name: JPL GW, MW-25-4, 8/2/2022 11:20:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	8.6	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/15/22 13:00	08/15/22 17:51	KB1	IC6	1	B146694	No Prep

DCN = Data Continuation Number

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Reported: 08/23/2022 15:08
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218155-07	Client Sample Name: JPL GW, MW-25-4, 8/2/2022 11:20:00AM								
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Hexavalent Chromium	0.0012	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	

DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC	
									Batch ID	Prep Method
1	EPA-218.6	08/04/22	08:00	08/04/22	12:20	RC1	IC-4	1	B145926	No Prep
2	EPA-200.8	08/04/22	17:20	08/05/22	09:07	KHS	PE-EL2	1	B145960	EPA 200.2

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Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218155-08	Client Sample Name: JPL GW, MW-25-3, 8/2/2022 11:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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	0.27	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		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: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218155-08	Client Sample Name: JPL GW, MW-25-3, 8/2/2022 11:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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	3.0	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	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: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218155-08	Client Sample Name: JPL GW, MW-25-3, 8/2/2022 11:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	93.4	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/03/22 06:00	08/03/22 12:18	MGC	MS-V5	1	B145733	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218155-08	Client Sample Name: JPL GW, MW-25-3, 8/2/2022 11:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/03/22 06:00	08/03/22	12:18	MGC	MS-V5	1	B145733	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/23/2022 15:08
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218155-08	Client Sample Name: JPL GW, MW-25-3, 8/2/2022 11:45:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	9.5	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-314.0	08/15/22 13:00	08/15/22	18:06	KB1	IC6	1	B146694	No Prep

DCN = Data Continuation Number

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Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218155-08	Client Sample Name: JPL GW, MW-25-3, 8/2/2022 11:45:00AM								
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Hexavalent Chromium	0.0035	mg/L	0.00020	0.000020	EPA-218.6	ND		1	
Total Recoverable Chromium	2.2	ug/L	3.0	0.50	EPA-200.8	ND	J	2	

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/04/22 08:00	08/04/22	12:29	RC1	IC-4	1	B145926	No Prep
2	EPA-200.8	08/04/22 17:20	08/05/22	09:09	KHS	PE-EL2	1	B145960	EPA 200.2

DCN = Data Continuation Number

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Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218155-09	Client Sample Name:	JPL GW, MW-25-2, 8/2/2022 1:00:00PM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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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Tidewater Inc. - Powell
 3761 Attucks Drive
 Powell, OH 43065

Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218155-09	Client Sample Name:	JPL GW, MW-25-2, 8/2/2022 1:00:00PM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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	0.25	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: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218155-09	Client Sample Name: JPL GW, MW-25-2, 8/2/2022 1:00:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	91.7	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/03/22 06:00	08/03/22 12:42	MGC	MS-V5	1	B145733	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218155-09	Client Sample Name: JPL GW, MW-25-2, 8/2/2022 1:00:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/03/22 06:00	08/03/22	12:42	MGC	MS-V5	1	B145733	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/23/2022 15:08
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218155-09	Client Sample Name: JPL GW, MW-25-2, 8/2/2022 1:00:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	12	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/15/22 13:00	08/15/22 18:22	KB1	IC6	1	B146694	No Prep

DCN = Data Continuation Number

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Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218155-09	Client Sample Name: JPL GW, MW-25-2, 8/2/2022 1:00:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.0027	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

DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC	
									Batch ID	Prep Method
1	EPA-218.6	08/04/22	08:00	08/04/22	12:58	RC1	IC-4	1	B145926	No Prep
2	EPA-200.8	08/04/22	17:20	08/05/22	09:10	KHS	PE-EL2	1	B145960	EPA 200.2

DCN = Data Continuation Number



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Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218155-10	Client Sample Name:	JPL GW, DUP-2-3Q22, 8/2/2022 1:15:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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	0.28	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: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218155-10	Client Sample Name:	JPL GW, DUP-2-3Q22, 8/2/2022 1:15:00PM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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	0.35	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	0.29	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: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218155-10	Client Sample Name: JPL GW, DUP-2-3Q22, 8/2/2022 1:15:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	93.4	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/03/22 06:00	08/03/22 13:06	MGC	MS-V5	1	B145733	EPA 524.2

DCN = Data Continuation Number



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

Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218155-10	Client Sample Name: JPL GW, DUP-2-3Q22, 8/2/2022 1:15:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/03/22 06:00	08/03/22	13:06	MGC	MS-V5	1	B145733	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
 3761 Attucks Drive
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Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218155-10	Client Sample Name: JPL GW, DUP-2-3Q22, 8/2/2022 1:15:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	11	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-314.0	08/15/22 13:00	08/15/22	18:37	KB1	IC6	1	B146694	No Prep

DCN = Data Continuation Number

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Reported: 08/23/2022 15:08
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218155-10	Client Sample Name: JPL GW, DUP-2-3Q22, 8/2/2022 1:15:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.0029	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Chromium	1.9	ug/L	3.0	0.50	EPA-200.8	ND	J	2

DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC	
									Batch ID	Prep Method
1	EPA-218.6	08/04/22	08:00	08/04/22	13:08	RC1	IC-4	1	B145926	No Prep
2	EPA-200.8	08/04/22	17:20	08/05/22	09:12	KHS	PE-EL2	1	B145960	EPA 200.2

DCN = Data Continuation Number

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Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218155-11	Client Sample Name:	JPL GW, MW-25-1, 8/2/2022 1:45:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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	0.44	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: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218155-11 **Client Sample Name:** JPL GW, MW-25-1, 8/2/2022 1:45:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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	0.33	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	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: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218155-11	Client Sample Name: JPL GW, MW-25-1, 8/2/2022 1:45:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	94.7	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/03/22 06:00	08/03/22 13:30	MGC	MS-V5	1	B145733	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218155-11	Client Sample Name: JPL GW, MW-25-1, 8/2/2022 1:45:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/03/22 06:00	08/03/22	13:30	MGC	MS-V5	1	B145733	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/23/2022 15:08
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218155-11	Client Sample Name: JPL GW, MW-25-1, 8/2/2022 1:45:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	6.7	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/15/22 13:00	08/15/22 18:52	KB1	IC6	1	B146694	No Prep

DCN = Data Continuation Number

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Tidewater Inc. - Powell
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Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218155-11	Client Sample Name: JPL GW, MW-25-1, 8/2/2022 1:45:00PM								
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Hexavalent Chromium	0.00040	mg/L	0.00020	0.000020	EPA-218.6	ND		1	
Total Recoverable Chromium	3.6	ug/L	3.0	0.50	EPA-200.8	ND		2	

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/04/22 08:00	08/04/22	13:17	RC1	IC-4	1	B145926	No Prep
2	EPA-200.8	08/04/22 17:20	08/05/22	09:14	KHS	PE-EL2	1	B145960	EPA 200.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218155-12	Client Sample Name:	JPL GW, EB-2-080222, 8/2/2022 2:00:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218155-12 **Client Sample Name:** JPL GW, EB-2-080222, 8/2/2022 2:00:00PM

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

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

Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218155-12 **Client Sample Name:** JPL GW, EB-2-080222, 8/2/2022 2:00:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	94.4	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/03/22 06:00	08/03/22 13:54	MGC	MS-V5	1	B145733	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218155-12	Client Sample Name: JPL GW, EB-2-080222, 8/2/2022 2:00:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/03/22 06:00	08/03/22	13:54	MGC	MS-V5	1	B145733	EPA 524.2

DCN = Data Continuation Number



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Reported: 08/23/2022 15:08
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218155-12	Client Sample Name: JPL GW, EB-2-080222, 8/2/2022 2:00:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/15/22 13:00	08/15/22 19:08	KB1	IC6	1	B146694	No Prep

DCN = Data Continuation Number

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Reported: 08/23/2022 15:08
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218155-12	Client Sample Name: JPL GW, EB-2-080222, 8/2/2022 2:00:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.000087	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/04/22 08:00	08/04/22	13:27	RC1	IC-4	1	B145926	No Prep
2	EPA-200.8	08/04/22 17:20	08/05/22	09:15	KHS	PE-EL2	1	B145960	EPA 200.2

DCN = Data Continuation Number

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Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B145733						
Benzene	B145733-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B145733-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B145733-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B145733-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B145733-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B145733-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B145733-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B145733-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B145733-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B145733-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B145733-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B145733-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B145733-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B145733-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B145733-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B145733-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B145733-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B145733-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B145733-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B145733-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B145733-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B145733-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B145733-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B145733-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B145733-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B145733-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B145733-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B145733-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B145733-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B145733-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B145733-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B145733-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B145733-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B145733-BLK1	ND	ug/L	0.50	0.14	

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Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B145733						
trans-1,3-Dichloropropene	B145733-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B145733-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B145733-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B145733-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B145733-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B145733-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B145733-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B145733-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B145733-BLK1	ND	ug/L	0.50	0.12	
Styrene	B145733-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B145733-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2,2-Tetrachloroethane	B145733-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B145733-BLK1	ND	ug/L	0.50	0.23	
Toluene	B145733-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B145733-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B145733-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B145733-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B145733-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B145733-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B145733-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B145733-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B145733-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B145733-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B145733-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B145733-BLK1	ND	ug/L	0.50	0.18	
Acetone	B145733-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B145733-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B145733-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B145733-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B145733-BLK1	ND	ug/L	2.0	2.0	
Carbon disulfide	B145733-BLK1	ND	ug/L	0.50	0.48	
trans-1,4-Dichloro-2-butene	B145733-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B145733-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B145733-BLK1	ND	ug/L	4.0	1.3	

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Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B145733						
Ethyl t-butyl ether	B145733-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B145733-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B145733-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B145733-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B145733-BLK1	ND	ug/L	5.0	3.3	
Methyl iodide	B145733-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B145733-BLK1	ND	ug/L	5.0	2.4	
Methyl methacrylate	B145733-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B145733-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B145733-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B145733-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B145733-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B145733-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B145733-BLK1	93.9	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B145733-BLK1	96.7	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B145733-BLK1	93.6	%	80 - 120 (LCL - UCL)		

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 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B145733										
Benzene	B145733-BS1	LCS	26.150	25.000	ug/L	105		70 - 130		
Bromodichloromethane	B145733-BS1	LCS	21.340	25.000	ug/L	85.4		70 - 130		
Chlorobenzene	B145733-BS1	LCS	24.530	25.000	ug/L	98.1		70 - 130		
Chloroethane	B145733-BS1	LCS	28.590	25.000	ug/L	114		70 - 130		
1,4-Dichlorobenzene	B145733-BS1	LCS	25.570	25.000	ug/L	102		70 - 130		
1,1-Dichloroethane	B145733-BS1	LCS	24.600	25.000	ug/L	98.4		70 - 130		
1,1-Dichloroethene	B145733-BS1	LCS	26.000	25.000	ug/L	104		70 - 130		
Toluene	B145733-BS1	LCS	24.130	25.000	ug/L	96.5		70 - 130		
Trichloroethene	B145733-BS1	LCS	23.000	25.000	ug/L	92.0		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B145733-BS1	LCS	9.4900	10.000	ug/L	94.9		75 - 125		
Toluene-d8 (Surrogate)	B145733-BS1	LCS	9.6300	10.000	ug/L	96.3		80 - 120		
4-Bromofluorobenzene (Surrogate)	B145733-BS1	LCS	9.6700	10.000	ug/L	96.7		80 - 120		

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Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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 Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: B145733		Used client sample: Y - Description: MW-14-4, 08/02/2022 08:10									
Benzene	MS	2218155-03	ND	25.960	25.000	ug/L		104		70 - 130	
	MSD	2218155-03	ND	24.720	25.000	ug/L	4.9	98.9	20	70 - 130	
Bromodichloromethane	MS	2218155-03	ND	22.070	25.000	ug/L		88.3		70 - 130	
	MSD	2218155-03	ND	20.820	25.000	ug/L	5.8	83.3	20	70 - 130	
Chlorobenzene	MS	2218155-03	ND	24.610	25.000	ug/L		98.4		70 - 130	
	MSD	2218155-03	ND	23.680	25.000	ug/L	3.9	94.7	20	70 - 130	
Chloroethane	MS	2218155-03	ND	28.670	25.000	ug/L		115		70 - 130	
	MSD	2218155-03	ND	27.610	25.000	ug/L	3.8	110	20	70 - 130	
1,4-Dichlorobenzene	MS	2218155-03	ND	26.530	25.000	ug/L		106		70 - 130	
	MSD	2218155-03	ND	25.250	25.000	ug/L	4.9	101	20	70 - 130	
1,1-Dichloroethane	MS	2218155-03	ND	24.480	25.000	ug/L		97.9		70 - 130	
	MSD	2218155-03	ND	23.510	25.000	ug/L	4.0	94.0	20	70 - 130	
1,1-Dichloroethene	MS	2218155-03	ND	25.960	25.000	ug/L		104		70 - 130	
	MSD	2218155-03	ND	24.470	25.000	ug/L	5.9	97.9	20	70 - 130	
Toluene	MS	2218155-03	ND	24.200	25.000	ug/L		96.8		70 - 130	
	MSD	2218155-03	ND	23.140	25.000	ug/L	4.5	92.6	20	70 - 130	
Trichloroethene	MS	2218155-03	0.21000	23.820	25.000	ug/L		94.4		70 - 130	
	MSD	2218155-03	0.21000	22.380	25.000	ug/L	6.2	88.7	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	2218155-03	ND	9.4000	10.000	ug/L		94.0		75 - 125	
	MSD	2218155-03	ND	9.4200	10.000	ug/L	0.2	94.2		75 - 125	
Toluene-d8 (Surrogate)	MS	2218155-03	ND	9.9100	10.000	ug/L		99.1		80 - 120	
	MSD	2218155-03	ND	9.7300	10.000	ug/L	1.8	97.3		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	2218155-03	ND	9.8200	10.000	ug/L		98.2		80 - 120	
	MSD	2218155-03	ND	9.7500	10.000	ug/L	0.7	97.5		80 - 120	

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Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B145733						
Nitrobenzene	B145733-BLK1	0	ug/L			
Methyl acrylate	B145733-BLK1	0	ug/L			
Chloroacetonitrile	B145733-BLK1	0	ug/L			
2-Nitropropane	B145733-BLK1	0	ug/L			
1-Chlorobutane	B145733-BLK1	0	ug/L			
1,1-Dichloropropanone	B145733-BLK1	0	ug/L			

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

Reported: 08/23/2022 15:08
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
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: B146694						
Perchlorate	B146694-BLK1	ND	ug/L	2.0	0.81	

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

Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146694										
Perchlorate	B146694-BS1	LCS	10.393	10.000	ug/L	104		85 - 115		
	B146694-BSD1	LCSD	9.7220	10.000	ug/L	97.2	6.7	85 - 115		15

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 3761 Attucks Drive
 Powell, OH 43065

Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146694		Used client sample: Y - Description: MW-14-4, 08/02/2022 08:10									
Perchlorate	DUP	2218155-03	3.7281	3.5939		ug/L	3.7		15		
	MS	2218155-03	3.7281	13.267	10.101	ug/L		94.4		80 - 120	
	MSD	2218155-03	3.7281	13.225	10.101	ug/L	0.3	94.0	15	80 - 120	

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 Powell, OH 43065

Reported: 08/23/2022 15:08
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
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: B145890						
Total Recoverable Chromium	B145890-BLK1	ND	ug/L	3.0	0.50	
QC Batch ID: B145926						
Hexavalent Chromium	B145926-BLK1	ND	mg/L	0.00020	0.000020	
QC Batch ID: B145960						
Total Recoverable Chromium	B145960-BLK1	ND	ug/L	3.0	0.50	

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

Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B145890										
Total Recoverable Chromium	B145890-BS1	LCS	38.565	40.000	ug/L	96.4		85	115	
QC Batch ID: B145926										
Hexavalent Chromium	B145926-BS1	LCS	0.019125	0.020000	mg/L	95.6		90	110	
QC Batch ID: B145960										
Total Recoverable Chromium	B145960-BS1	LCS	37.963	40.000	ug/L	94.9		85	115	

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

Reported: 08/23/2022 15:08
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab
									RPD	Percent Recovery	
QC Batch ID: B145890		Used client sample: N									
Total Recoverable Chromium	DUP	2218082-01	ND	ND		ug/L			20		
	MS	2218082-01	ND	38.156	40.000	ug/L		95.4		70 - 130	
	MSD	2218082-01	ND	38.164	40.000	ug/L	0.0	95.4	20	70 - 130	
QC Batch ID: B145926		Used client sample: Y - Description: MW-14-3, 08/02/2022 08:45									
Hexavalent Chromium	DUP	2218155-04	0.00030900	0.00030800		mg/L	0.3		10		
	MS	2218155-04	0.00030900	0.019827	0.020202	mg/L		96.6		90 - 110	
	MSD	2218155-04	0.00030900	0.019779	0.020202	mg/L	0.2	96.4	10	90 - 110	
QC Batch ID: B145960		Used client sample: N									
Total Recoverable Chromium	DUP	2218379-05	1.1950	1.3680		ug/L	13.5		20		J
	MS	2218379-05	1.1950	36.911	40.000	ug/L		89.3		70 - 130	
	MSD	2218379-05	1.1950	38.473	40.000	ug/L	4.1	93.2	20	70 - 130	

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

Reported: 08/23/2022 15:08
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
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: 08/25/2022

David Conner

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

Client Project: 3Q22
BCL Project: JPL- GW Monitoring Wells-CLP
BCL Work Order: 2218429
Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 8/3/2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Natalie Serda".

Contact Person: Natalie Serda
Client Service Rep

A handwritten signature in black ink that reads "Stuart Buttram".

Stuart Buttram
Operations Manager

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

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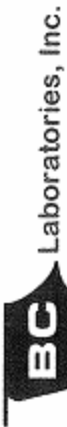
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Chain of Custody Form



Page 1 of 1

Report to: Tidewater, Inc.
Client: Tidewater
Attn: David Conner
Street Address: 3761 Attucks Drive
City: Powell **State:** OH **Zip:** 43065
Phone: 626 | 288 - 5715 **Fax:** 614 | 792 - 2887
Email Address: david.conner@tideh2o.net
Submission #: 22-18429

Project Description: JPL-GW Monitoring
Project Code: 3022
Sampler(s): Blaine Tech

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

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:
 Laboratory please select 2 SDs for Level Evaluation
 ms/msd

Sample #	Sample Description	Date	Time	Matrix*
-1	TB-3-050322	08/03/22	0700	W
-2	MW-17-4		0830	W
-3	MW-17-3		0905	W
-4	MW-17-2		0930	W
-5	MW-3-4		1030	W
-6	MW-3-3		1130	W
-7	MW-3-2		1145	W
-8	EB-3-050322		1200	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 OC (MS/MSD)
 90% Level III and 10% Level IV data validation required: Level IV Notated on C of C
 NOTE: ALL ANALYSIS REQUIRED TO HAVE CALIBRATION SUMMARIES (Inform OC)

Global ID:
 1. Relinquished By: [Signature] Date: 8/03/22 Time: 1207
 2. Relinquished By: M. Y. A. C. [Signature] Date: 8/3/22 Time: 1935
 3. Relinquished By: [Signature] Date: [] Time: []

Cost Center:
 1. Relinquished By: [Signature] Date: 8/03/22 Time: 1207
 2. Relinquished By: M. Y. A. C. [Signature] Date: 8/3/22 Time: 1935
 3. Relinquished By: [Signature] Date: [] Time: []

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

Matrix: L = Liquid M = Miscellaneous O = Other

CHIEF BY: [Signature] [Signature] SUB OUT []

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

DO Cl₂ BOD MBAS COT
 HOLDING TIME
 NO₃ OP SS

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>1</u> Of <u>1</u>	
Submission #: <u>22-18429</u>					
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace 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 checked="" type="checkbox"/> NO <input type="checkbox"/> W / S
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____ Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <u>0.97</u> Container: <u>PE</u> Thermometer ID: <u>274</u> Temperature: (A) <u>0.2</u> °C / (C) <u>0.3</u> °C		Date/Time <u>8/3/22 12:35</u> Analyst Init <u>PRE</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES		E	E	E	LD	E	E	E		
2oz Cr*		D	D	D	GH	D	D	D		
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz		F	F	F	KL	F	F	F		
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A									
40ml VOA VIAL		A-C	A-C	A-C	A-F	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 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: PRE Date/Time: 8/4/22 16:30 Rev 25 05/2012
 A = Actual / C = Corrected [S:\WPDev\Www\PerfectLAB_DOC\FORMS\SAMREC.doc 20]



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

Reported: 08/25/2022 16:58
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information					
2218429-01	COC Number:	---	Receive Date:	08/03/2022 18:35		
	Project Number:	JPL GW	Sampling Date:	08/03/2022 07:00		
	Sampling Location:	---	Sample Depth:	---		
	Sampling Point:	TB-3-080322	Lab Matrix:	Water		
	Sampled By:	BTST	Sample Type:	Water		
	Delivery Work Order:					
	Global ID: 0000000000					
	Location ID (FieldPoint): TB-3					
	Matrix: WG					
	Sample QC Type (SACode): CS					
Cooler ID:						
2218429-02	COC Number:	---	Receive Date:	08/03/2022 18:35		
	Project Number:	JPL GW	Sampling Date:	08/03/2022 08:30		
	Sampling Location:	---	Sample Depth:	---		
	Sampling Point:	MW-17-4	Lab Matrix:	Water		
	Sampled By:	BTST	Sample Type:	Water		
	Delivery Work Order:					
	Global ID: 0000000000					
	Location ID (FieldPoint): MW-17-4					
	Matrix: WG					
	Sample QC Type (SACode): CS					
Cooler ID:						
2218429-03	COC Number:	---	Receive Date:	08/03/2022 18:35		
	Project Number:	JPL GW	Sampling Date:	08/03/2022 09:05		
	Sampling Location:	---	Sample Depth:	---		
	Sampling Point:	MW-17-3	Lab Matrix:	Water		
	Sampled By:	BTST	Sample Type:	Water		
	Delivery Work Order:					
	Global ID: 0000000000					
	Location ID (FieldPoint): MW-17-3					
	Matrix: WG					
	Sample QC Type (SACode): CS					
Cooler ID:						

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 3761 Attucks Drive
 Powell, OH 43065

Reported: 08/25/2022 16:58
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information					
2218429-04	COC Number:	---	Receive Date:	08/03/2022 18:35		
	Project Number:	JPL GW	Sampling Date:	08/03/2022 09:30		
	Sampling Location:	---	Sample Depth:	---		
	Sampling Point:	MW-17-2	Lab Matrix:	Water		
	Sampled By:	BTST	Sample Type:	Water		
	Delivery Work Order:					
	Global ID: 0000000000					
	Location ID (FieldPoint): MW-17-2					
	Matrix: WG					
	Sample QC Type (SACode): CS					
Cooler ID:						
2218429-05	COC Number:	---	Receive Date:	08/03/2022 18:35		
	Project Number:	JPL GW	Sampling Date:	08/03/2022 10:30		
	Sampling Location:	---	Sample Depth:	---		
	Sampling Point:	MW-3-4	Lab Matrix:	Water		
	Sampled By:	BTST	Sample Type:	Water		
	Delivery Work Order:					
	Global ID: 0000000000					
	Location ID (FieldPoint): MW-3-4					
	Matrix: WG					
	Sample QC Type (SACode): CS					
Cooler ID:						
2218429-06	COC Number:	---	Receive Date:	08/03/2022 18:35		
	Project Number:	JPL GW	Sampling Date:	08/03/2022 10:30		
	Sampling Location:	---	Sample Depth:	---		
	Sampling Point:	MW-3-3	Lab Matrix:	Water		
	Sampled By:	BTST	Sample Type:	Water		
	Delivery Work Order:					
	Global ID: 0000000000					
	Location ID (FieldPoint): MW-3-3					
	Matrix: WG					
	Sample QC Type (SACode): CS					
Cooler ID:						

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

Reported: 08/25/2022 16:58
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2218429-07	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW-3-2 Sampled By: BTST	Receive Date: 08/03/2022 18:35 Sampling Date: 08/03/2022 11:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-3-2 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

2218429-08	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: EB-3-080322 Sampled By: BTST	Receive Date: 08/03/2022 18:35 Sampling Date: 08/03/2022 12:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-3 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

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

Reported: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218429-01	Client Sample Name:	JPL GW, TB-3-080322, 8/3/2022 7:00:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218429-01 **Client Sample Name:** JPL GW, TB-3-080322, 8/3/2022 7:00:00AM

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

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

Reported: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218429-01	Client Sample Name: JPL GW, TB-3-080322, 8/3/2022 7:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	96.3	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/05/22 12:00	08/06/22 01:59	MGC	MS-V5	1	B145990	EPA 524.2

DCN = Data Continuation Number



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

Reported: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218429-01	Client Sample Name: JPL GW, TB-3-080322, 8/3/2022 7:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/05/22 12:00	08/06/22 01:59	MGC	MS-V5	1	B145990	EPA 524.2

DCN = Data Continuation Number



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

Reported: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218429-02	Client Sample Name:	JPL GW, MW-17-4, 8/3/2022 8:30:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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	0.62	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: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218429-02	Client Sample Name:	JPL GW, MW-17-4, 8/3/2022 8:30:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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	0.38	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	0.41	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
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Reported: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218429-02	Client Sample Name: JPL GW, MW-17-4, 8/3/2022 8:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	96.9	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/05/22 12:00	08/06/22 02:23	MGC	MS-V5	1	B145990	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218429-02	Client Sample Name: JPL GW, MW-17-4, 8/3/2022 8:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/05/22 12:00	08/06/22	02:23	MGC	MS-V5	1	B145990	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/25/2022 16:58
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218429-02	Client Sample Name: JPL GW, MW-17-4, 8/3/2022 8:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	3.6	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/16/22 22:00	08/17/22 00:49	TMS	IC6	1	B147028	No Prep

DCN = Data Continuation Number

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Reported: 08/25/2022 16:58
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218429-02	Client Sample Name: JPL GW, MW-17-4, 8/3/2022 8:30:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.0021	mg/L	0.00020	0.000020	EPA-218.6	0.000044		1
Total Recoverable Chromium	2.0	ug/L	3.0	0.50	EPA-200.8	ND	J	2

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/05/22 11:00	08/05/22	15:53	JAT	IC-4	1	B146050	No Prep
2	EPA-200.8	08/08/22 18:10	08/09/22	16:06	KHS	PE-EL2	1	B146175	EPA 200.2

DCN = Data Continuation Number

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Reported: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218429-03	Client Sample Name: JPL GW, MW-17-3, 8/3/2022 9:05:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218429-03	Client Sample Name: JPL GW, MW-17-3, 8/3/2022 9:05:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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	0.87	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
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 Powell, OH 43065

Reported: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218429-03	Client Sample Name: JPL GW, MW-17-3, 8/3/2022 9:05:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	99.2	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/05/22 12:00	08/06/22 02:47	MGC	MS-V5	1	B145990	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218429-03	Client Sample Name: JPL GW, MW-17-3, 8/3/2022 9:05:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/05/22 12:00	08/06/22	02:47	MGC	MS-V5	1	B145990	EPA 524.2

DCN = Data Continuation Number



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

Reported: 08/25/2022 16:58
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218429-03	Client Sample Name: JPL GW, MW-17-3, 8/3/2022 9:05:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/16/22 22:00	08/17/22 01:04	TMS	IC6	1	B147028	No Prep

DCN = Data Continuation Number

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Reported: 08/25/2022 16:58
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218429-03	Client Sample Name: JPL GW, MW-17-3, 8/3/2022 9:05:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.000086	mg/L	0.00020	0.000020	EPA-218.6	0.000044	J	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/05/22 11:00	08/05/22	16:02	JAT	IC-4	1	B146050	No Prep
2	EPA-200.8	08/08/22 18:10	08/09/22	16:07	KHS	PE-EL2	1	B146175	EPA 200.2

DCN = Data Continuation Number

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Reported: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218429-04 **Client Sample Name:** JPL GW, MW-17-2, 8/3/2022 9:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218429-04	Client Sample Name:	JPL GW, MW-17-2, 8/3/2022 9:30:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218429-04	Client Sample Name: JPL GW, MW-17-2, 8/3/2022 9:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	96.5	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/05/22 12:00	08/06/22 03:11	MGC	MS-V5	1	B145990	EPA 524.2

DCN = Data Continuation Number



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

Reported: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218429-04	Client Sample Name: JPL GW, MW-17-2, 8/3/2022 9:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/05/22 12:00	08/06/22	03:11	MGC	MS-V5	1	B145990	EPA 524.2

DCN = Data Continuation Number

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Reported: 08/25/2022 16:58
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218429-04	Client Sample Name: JPL GW, MW-17-2, 8/3/2022 9:30:00AM
----------------------------------	--

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

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/16/22 22:00	08/17/22 12:32	TMS	IC6	1	B147028	No Prep

DCN = Data Continuation Number

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Reported: 08/25/2022 16:58
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218429-04	Client Sample Name: JPL GW, MW-17-2, 8/3/2022 9:30:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.000087	mg/L	0.00020	0.000020	EPA-218.6	0.000044	J	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC	
									Batch ID	Prep Method
1	EPA-218.6	08/05/22	11:00	08/05/22	15:43	JAT	IC-4	1	B146050	No Prep
2	EPA-200.8	08/08/22	18:10	08/09/22	16:09	KHS	PE-EL2	1	B146175	EPA 200.2

DCN = Data Continuation Number

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Reported: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218429-05		Client Sample Name: JPL GW, MW-3-4, 8/3/2022 10:30:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218429-05	Client Sample Name:	JPL GW, MW-3-4, 8/3/2022 10:30:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1	
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1	
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1	
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1	
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1	
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1	
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1	
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1	

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

Reported: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218429-05	Client Sample Name: JPL GW, MW-3-4, 8/3/2022 10:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/05/22 12:00	08/05/22 23:35	MGC	MS-V5	1	B145990	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218429-05	Client Sample Name: JPL GW, MW-3-4, 8/3/2022 10:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/05/22 12:00	08/05/22	23:35	MGC	MS-V5	1	B145990	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/25/2022 16:58
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218429-05	Client Sample Name: JPL GW, MW-3-4, 8/3/2022 10:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	3.2	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/16/22 22:00	08/16/22 23:47	TMS	IC6	1	B147028	No Prep

DCN = Data Continuation Number

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Reported: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218429-05	Client Sample Name: JPL GW, MW-3-4, 8/3/2022 10:30:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00040	mg/L	0.00020	0.000020	EPA-218.6	0.000044		1
Total Recoverable Chromium	15	ug/L	3.0	0.50	EPA-200.8	ND		2

DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC	
									Batch ID	Prep Method
1	EPA-218.6	08/05/22	11:00	08/05/22	14:45	RC1	IC-4	1	B146050	No Prep
2	EPA-200.8	08/08/22	18:10	08/09/22	15:17	KHS	PE-EL2	1	B146175	EPA 200.2

DCN = Data Continuation Number



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Reported: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218429-06	Client Sample Name: JPL GW, MW-3-3, 8/3/2022 10:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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
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Reported: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218429-06		Client Sample Name: JPL GW, MW-3-3, 8/3/2022 10:30:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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

Reported: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218429-06	Client Sample Name: JPL GW, MW-3-3, 8/3/2022 10:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	98.6	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/05/22 12:00	08/06/22 03:34	MGC	MS-V5	1	B145990	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218429-06	Client Sample Name: JPL GW, MW-3-3, 8/3/2022 10:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/05/22 12:00	08/06/22	03:34	MGC	MS-V5	1	B145990	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/25/2022 16:58
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218429-06	Client Sample Name: JPL GW, MW-3-3, 8/3/2022 10:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	3.1	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/16/22 22:00	08/17/22 12:47	TMS	IC6	1	B147028	No Prep

DCN = Data Continuation Number

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Reported: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218429-06	Client Sample Name: JPL GW, MW-3-3, 8/3/2022 10:30:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00042	mg/L	0.00020	0.000020	EPA-218.6	0.000044		1
Total Recoverable Chromium	2.6	ug/L	3.0	0.50	EPA-200.8	ND	J	2

DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC	
									Batch ID	Prep Method
1	EPA-218.6	08/05/22	11:00	08/05/22	14:36	RC1	IC-4	1	B146050	No Prep
2	EPA-200.8	08/08/22	18:10	08/09/22	16:11	KHS	PE-EL2	1	B146175	EPA 200.2

DCN = Data Continuation Number

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Reported: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218429-07		Client Sample Name: JPL GW, MW-3-2, 8/3/2022 11:45:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218429-07	Client Sample Name: JPL GW, MW-3-2, 8/3/2022 11:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218429-07	Client Sample Name: JPL GW, MW-3-2, 8/3/2022 11:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	97.6	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/05/22 12:00	08/06/22 03:58	MGC	MS-V5	1	B145990	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218429-07	Client Sample Name: JPL GW, MW-3-2, 8/3/2022 11:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/05/22 12:00	08/06/22	03:58	MGC	MS-V5	1	B145990	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/25/2022 16:58
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218429-07	Client Sample Name: JPL GW, MW-3-2, 8/3/2022 11:45:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	3.6	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/16/22 22:00	08/17/22 13:02	TMS	IC6	1	B147028	No Prep

DCN = Data Continuation Number

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Reported: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218429-07	Client Sample Name: JPL GW, MW-3-2, 8/3/2022 11:45:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00039	mg/L	0.00020	0.000020	EPA-218.6	0.000044		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC	
									Batch ID	Prep Method
1	EPA-218.6	08/05/22	11:00	08/05/22	14:26	RC1	IC-4	1	B146050	No Prep
2	EPA-200.8	08/08/22	18:10	08/09/22	16:12	KHS	PE-EL2	1	B146175	EPA 200.2

DCN = Data Continuation Number

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Reported: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218429-08	Client Sample Name:	JPL GW, EB-3-080322, 8/3/2022 12:00:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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
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Reported: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218429-08		Client Sample Name: JPL GW, EB-3-080322, 8/3/2022 12:00:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218429-08	Client Sample Name: JPL GW, EB-3-080322, 8/3/2022 12:00:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	95.4	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/05/22 12:00	08/06/22 04:22	MGC	MS-V5	1	B145990	EPA 524.2

DCN = Data Continuation Number



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Reported: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218429-08	Client Sample Name: JPL GW, EB-3-080322, 8/3/2022 12:00:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/05/22 12:00	08/06/22	04:22	MGC	MS-V5	1	B145990	EPA 524.2

DCN = Data Continuation Number



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Reported: 08/25/2022 16:58
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218429-08	Client Sample Name: JPL GW, EB-3-080322, 8/3/2022 12:00:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/16/22 22:00	08/17/22 13:18	TMS	IC6	1	B147028	No Prep

DCN = Data Continuation Number

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Reported: 08/25/2022 16:58
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218429-08	Client Sample Name: JPL GW, EB-3-080322, 8/3/2022 12:00:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00016	mg/L	0.00020	0.000020	EPA-218.6	0.000044	J	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC	
									Batch ID	Prep Method
1	EPA-218.6	08/05/22	11:00	08/05/22	14:17	RC1	IC-4	1	B146050	No Prep
2	EPA-200.8	08/08/22	18:10	08/09/22	16:14	KHS	PE-EL2	1	B146175	EPA 200.2

DCN = Data Continuation Number

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Reported: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B145990						
Benzene	B145990-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B145990-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B145990-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B145990-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B145990-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B145990-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B145990-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B145990-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B145990-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B145990-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B145990-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B145990-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B145990-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B145990-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B145990-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B145990-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B145990-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B145990-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B145990-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B145990-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B145990-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B145990-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B145990-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B145990-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B145990-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B145990-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B145990-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B145990-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B145990-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B145990-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B145990-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B145990-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B145990-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B145990-BLK1	ND	ug/L	0.50	0.14	

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Reported: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B145990						
trans-1,3-Dichloropropene	B145990-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B145990-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B145990-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B145990-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B145990-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B145990-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B145990-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B145990-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B145990-BLK1	ND	ug/L	0.50	0.12	
Styrene	B145990-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B145990-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2,2-Tetrachloroethane	B145990-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B145990-BLK1	ND	ug/L	0.50	0.23	
Toluene	B145990-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B145990-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B145990-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B145990-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B145990-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B145990-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B145990-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B145990-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B145990-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B145990-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B145990-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B145990-BLK1	ND	ug/L	0.50	0.18	
Acetone	B145990-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B145990-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B145990-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B145990-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B145990-BLK1	ND	ug/L	2.0	2.0	
Carbon disulfide	B145990-BLK1	ND	ug/L	0.50	0.48	
trans-1,4-Dichloro-2-butene	B145990-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B145990-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B145990-BLK1	ND	ug/L	4.0	1.3	

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Reported: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B145990						
Ethyl t-butyl ether	B145990-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B145990-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B145990-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B145990-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B145990-BLK1	ND	ug/L	5.0	3.3	
Methyl iodide	B145990-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B145990-BLK1	ND	ug/L	5.0	2.4	
Methyl methacrylate	B145990-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B145990-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B145990-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B145990-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B145990-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B145990-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B145990-BLK1	96.7	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B145990-BLK1	100	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B145990-BLK1	95.9	%	80 - 120 (LCL - UCL)		

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Reported: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B145990										
Benzene	B145990-BS1	LCS	23.550	25.000	ug/L	94.2		70 - 130		
Bromodichloromethane	B145990-BS1	LCS	24.560	25.000	ug/L	98.2		70 - 130		
Chlorobenzene	B145990-BS1	LCS	22.600	25.000	ug/L	90.4		70 - 130		
Chloroethane	B145990-BS1	LCS	25.640	25.000	ug/L	103		70 - 130		
1,4-Dichlorobenzene	B145990-BS1	LCS	23.190	25.000	ug/L	92.8		70 - 130		
1,1-Dichloroethane	B145990-BS1	LCS	23.800	25.000	ug/L	95.2		70 - 130		
1,1-Dichloroethene	B145990-BS1	LCS	24.510	25.000	ug/L	98.0		70 - 130		
Toluene	B145990-BS1	LCS	23.770	25.000	ug/L	95.1		70 - 130		
Trichloroethene	B145990-BS1	LCS	25.920	25.000	ug/L	104		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B145990-BS1	LCS	9.7400	10.000	ug/L	97.4		75 - 125		
Toluene-d8 (Surrogate)	B145990-BS1	LCS	10.000	10.000	ug/L	100		80 - 120		
4-Bromofluorobenzene (Surrogate)	B145990-BS1	LCS	10.010	10.000	ug/L	100		80 - 120		

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

Reported: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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 Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: B145990		Used client sample: Y - Description: MW-3-4, 08/03/2022 10:30									
Benzene	MS	2218429-05	ND	23.910	25.000	ug/L		95.6		70 - 130	
	MSD	2218429-05	ND	23.340	25.000	ug/L	2.4	93.4	20	70 - 130	
Bromodichloromethane	MS	2218429-05	ND	24.890	25.000	ug/L		99.6		70 - 130	
	MSD	2218429-05	ND	24.620	25.000	ug/L	1.1	98.5	20	70 - 130	
Chlorobenzene	MS	2218429-05	ND	22.680	25.000	ug/L		90.7		70 - 130	
	MSD	2218429-05	ND	22.340	25.000	ug/L	1.5	89.4	20	70 - 130	
Chloroethane	MS	2218429-05	ND	25.830	25.000	ug/L		103		70 - 130	
	MSD	2218429-05	ND	25.400	25.000	ug/L	1.7	102	20	70 - 130	
1,4-Dichlorobenzene	MS	2218429-05	ND	23.200	25.000	ug/L		92.8		70 - 130	
	MSD	2218429-05	ND	23.010	25.000	ug/L	0.8	92.0	20	70 - 130	
1,1-Dichloroethane	MS	2218429-05	ND	24.470	25.000	ug/L		97.9		70 - 130	
	MSD	2218429-05	ND	23.830	25.000	ug/L	2.7	95.3	20	70 - 130	
1,1-Dichloroethene	MS	2218429-05	ND	23.820	25.000	ug/L		95.3		70 - 130	
	MSD	2218429-05	ND	23.410	25.000	ug/L	1.7	93.6	20	70 - 130	
Toluene	MS	2218429-05	ND	23.620	25.000	ug/L		94.5		70 - 130	
	MSD	2218429-05	ND	23.120	25.000	ug/L	2.1	92.5	20	70 - 130	
Trichloroethene	MS	2218429-05	ND	24.320	25.000	ug/L		97.3		70 - 130	
	MSD	2218429-05	ND	23.350	25.000	ug/L	4.1	93.4	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	2218429-05	ND	9.8600	10.000	ug/L		98.6		75 - 125	
	MSD	2218429-05	ND	10.050	10.000	ug/L	1.9	100		75 - 125	
Toluene-d8 (Surrogate)	MS	2218429-05	ND	9.9500	10.000	ug/L		99.5		80 - 120	
	MSD	2218429-05	ND	10.060	10.000	ug/L	1.1	101		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	2218429-05	ND	9.8200	10.000	ug/L		98.2		80 - 120	
	MSD	2218429-05	ND	10.170	10.000	ug/L	3.5	102		80 - 120	

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

Reported: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B145990						
Nitrobenzene	B145990-BLK1	0	ug/L			
Methyl acrylate	B145990-BLK1	0	ug/L			
Chloroacetonitrile	B145990-BLK1	0	ug/L			
2-Nitropropane	B145990-BLK1	0	ug/L			
1-Chlorobutane	B145990-BLK1	0	ug/L			
1,1-Dichloropropanone	B145990-BLK1	0	ug/L			

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 3761 Attucks Drive
 Powell, OH 43065

Reported: 08/25/2022 16:58
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
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: B147028						
Perchlorate	B147028-BLK1	ND	ug/L	2.0	0.81	

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Reported: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B147028										
Perchlorate	B147028-BS1	LCS	9.4569	10.000	ug/L	94.6		85 - 115		

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Reported: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B147028		Used client sample: Y - Description: MW-3-4, 08/03/2022 10:30									
Perchlorate	DUP	2218429-05	3.2148	3.1418		ug/L	2.3		15		
	MS	2218429-05	3.2148	12.645	10.101	ug/L		93.4		80 - 120	
	MSD	2218429-05	3.2148	12.432	10.101	ug/L	1.7	91.3	15	80 - 120	

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Reported: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146050						
Hexavalent Chromium	B146050-BLK1	0.000044000	mg/L	0.00020	0.000020	J
QC Batch ID: B146175						
Total Recoverable Chromium	B146175-BLK1	ND	ug/L	3.0	0.50	

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 Powell, OH 43065

Reported: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146050										
Hexavalent Chromium	B146050-BS1	LCS	0.020568	0.020000	mg/L	103		90 - 110		
QC Batch ID: B146175										
Total Recoverable Chromium	B146175-BS1	LCS	41.515	40.000	ug/L	104		85 - 115		
	B146175-BSD1	LCSD	40.387	40.000	ug/L	101	2.8	85 - 115		20

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Tidewater Inc. - Powell
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 Powell, OH 43065

Reported: 08/25/2022 16:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Metals Analysis

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: B146050		Used client sample: Y - Description: MW-3-4, 08/03/2022 10:30									
Hexavalent Chromium	DUP	2218429-05	0.00040300	0.00039200		mg/L	2.8		10		
	MS	2218429-05	0.00040300	0.019528	0.020202	mg/L		94.7		90 - 110	
	MSD	2218429-05	0.00040300	0.019511	0.020202	mg/L	0.1	94.6	10	90 - 110	
QC Batch ID: B146175		Used client sample: Y - Description: MW-3-4, 08/03/2022 10:30									
Total Recoverable Chromium	DUP	2218429-05	15.024	14.132		ug/L	6.1		20		
	MS	2218429-05	15.024	54.164	40.000	ug/L		97.8		70 - 130	
	MSD	2218429-05	15.024	55.107	40.000	ug/L	1.7	100	20	70 - 130	

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

Reported: 08/25/2022 16:58
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
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: 08/25/2022

David Conner

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

Client Project: 3Q22
BCL Project: JPL- GW Monitoring Wells-CLP
BCL Work Order: 2218492
Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 8/4/2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Natalie Serda".

Contact Person: Natalie Serda
Client Service Rep

A handwritten signature in black ink that reads "Stuart Buttram".

Stuart Buttram
Operations Manager

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

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Chain of Custody Form



Page 1 of 1

*Required Fields 22-18492

Report To: Client: Tidelwater, Inc. Attn: 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@tidelt2o.net		Project Description: JPL-GW Monitoring Project Code: 3022 Sampler(s): Blaine Tech		Billing Client: Tidelwater 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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No *Standard Turnaround = 10	
Analysis Requested Orthophosphate 365.1 Cl, NO3, NO2, SO4 Hexavalent Cr 218.6 (mg/L) Perchlorate TRM, Cr VOCs EPA 524.2		Matrix* W W W W W W W W W W		Notes Laboratory, please select 25 Dbs for Level IV validation DO Cl ₂ BOD MBAS COT FOLDING TIME CR-20 (NO) OP SS CRK BY: [Signature] SUB OUT: [Signature]	
Sample # -1 -2 -3 -4 -5 -6 -7 -8 -9	Sample Description TB-4-080422 MW-22-3 MW-22-2 MW-24-4 MW-24-3 MW-24-2 DP-3-3622 MW-24-1 EB-4-080422	Date 08/04/22 0805 0830 09150 1020 1050 1105 1200 1315	Time 0700 0805 0830 09150 1020 1050 1105 1200 1315	Matrix* W W W W W W W W W	Matrix* W W W W W W W W W
Matrix Types: S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid Turnaround # of working days: <input type="checkbox"/> 24 Hr Rush <input type="checkbox"/> 48 Hr Rush <input checked="" type="checkbox"/> 3-5 Day Rush <input checked="" type="checkbox"/> Normal (10 - Days) Lab TAT Approval: _____ *Additional Charges May Apply		Cost Center: 1. Relinquished By: [Signature] Date: 8/12/22 Time: 1337 2. Relinquished By: [Signature] Date: 8/12/22 Time: 0000 3. Relinquished By: [Signature] Date: 8/12/22 Time: 2000		Global ID: 1. Approved By: [Signature] Date: 8/12/22 Time: 1337 2. Relinquished By: [Signature] Date: 8/12/22 Time: 0000 3. Relinquished By: [Signature] Date: 8/12/22 Time: 2000	
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)		MBU site <input type="checkbox"/> MBU site <input type="checkbox"/> CVX RCRA <input type="checkbox"/> Geotracker 5 File (CA Default) <input type="checkbox"/> Geotracker 2 File <input type="checkbox"/> Other (Specify) _____		BC Laboratories, Inc. 4100 Atlas Court - Bakersfield CA 93308 (661) 327-4911 Fax: (661) 327-1918 www.bclabs.com	

PACE ANALYTICAL		COOLER RECEIPT FORM		Page 1 Of 1	
Submission #: 22-18492					
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input checked="" type="checkbox"/> NO <input type="checkbox"/> (W) S
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: 0.97 Container: PE Thermometer ID: 274		Date/Time: 2/4/22 2000	
		Temperature: (A) 0.7 °C / (C) 0.8 °C		Analyst Init: PPE	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 5oz / 16oz PE UNPRES		D	D	D		D	D	D	D	D
2oz Cr*		E	E	E	A	E	E	E	E	E
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz		F	F		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										
Pa PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A									
40ml VOA VIAL		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- 504										
QT EPA 508/508.3/5081A										
QT EPA 515.1/5151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
3oz 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										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____
 Sample Numbering Completed By: JCD Date/Time: 2/5/22 1015
 A = Actual / C = Corrected



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

Reported: 08/25/2022 16:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
2218492-01	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: TB-4-080422 Sampled By: Blaine Tech of BTST	Receive Date: 08/04/2022 20:00 Sampling Date: 08/04/2022 07:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-4 Matrix: WG Sample QC Type (SACode): CS Cooler ID:	
2218492-02	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW-22-3 Sampled By: Blaine Tech of BTST	Receive Date: 08/04/2022 20:00 Sampling Date: 08/04/2022 08:05 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-22-3 Matrix: WG Sample QC Type (SACode): CS Cooler ID:	
2218492-03	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW-22-2 Sampled By: Blaine Tech of BTST	Receive Date: 08/04/2022 20:00 Sampling Date: 08/04/2022 08:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-22-2 Matrix: WG Sample QC Type (SACode): CS Cooler ID:	

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Reported: 08/25/2022 16:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2218492-04	COC Number:	---	Receive Date: 08/04/2022 20:00	
	Project Number:	JPL GW	Sampling Date: 08/04/2022 09:50	
	Sampling Location:	---	Sample Depth: ---	
	Sampling Point:	MW-24-4	Lab Matrix: Water	
	Sampled By:	Blaine Tech of BTST	Sample Type: Water	
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-24-4	
			Matrix: WG	
			Sample QC Type (SACode): CS	
			Cooler ID:	
	<hr/>			
	2218492-05	COC Number:	---	Receive Date: 08/04/2022 20:00
Project Number:		JPL GW	Sampling Date: 08/04/2022 10:20	
Sampling Location:		---	Sample Depth: ---	
Sampling Point:		MW-24-3	Lab Matrix: Water	
Sampled By:		Blaine Tech of BTST	Sample Type: Water	
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-24-3	
			Matrix: WG	
			Sample QC Type (SACode): CS	
			Cooler ID:	
<hr/>				
2218492-06		COC Number:	---	Receive Date: 08/04/2022 20:00
	Project Number:	JPL GW	Sampling Date: 08/04/2022 10:50	
	Sampling Location:	---	Sample Depth: ---	
	Sampling Point:	MW-24-2	Lab Matrix: Water	
	Sampled By:	Blaine Tech of BTST	Sample Type: Water	
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-24-2	
			Matrix: WG	
			Sample QC Type (SACode): CS	
			Cooler ID:	

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 3761 Attucks Drive
 Powell, OH 43065

Reported: 08/25/2022 16:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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2218492-07	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: DUP-3-3Q22 Sampled By: Blaine Tech of BTST	Receive Date: 08/04/2022 20:00 Sampling Date: 08/04/2022 11:05 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): DUP-3 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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2218492-08	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW-24-1 Sampled By: Blaine Tech of BTST	Receive Date: 08/04/2022 20:00 Sampling Date: 08/04/2022 12:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-24-1 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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2218492-09	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: EB-4-080422 Sampled By: Blaine Tech of BTST	Receive Date: 08/04/2022 20:00 Sampling Date: 08/04/2022 12:15 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-4 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc. - Powell
 3761 Attucks Drive
 Powell, OH 43065

Reported: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218492-01	Client Sample Name: JPL GW, TB-4-080422, 8/4/2022 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218492-01	Client Sample Name: JPL GW, TB-4-080422, 8/4/2022 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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

Reported: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218492-01	Client Sample Name: JPL GW, TB-4-080422, 8/4/2022 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	88.7	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/10/22 07:00	08/10/22 16:12	MGC	MS-V5	1	B146306	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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 Powell, OH 43065

Reported: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218492-01	Client Sample Name: JPL GW, TB-4-080422, 8/4/2022 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/10/22 07:00	08/10/22	16:12	MGC	MS-V5	1	B146306	EPA 524.2

DCN = Data Continuation Number



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

Reported: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218492-02	Client Sample Name: JPL GW, MW-22-3, 8/4/2022 8:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218492-02 **Client Sample Name:** JPL GW, MW-22-3, 8/4/2022 8:05:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218492-02	Client Sample Name: JPL GW, MW-22-3, 8/4/2022 8:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	94.8	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/10/22 07:00	08/10/22 16:36	MGC	MS-V5	1	B146306	EPA 524.2

DCN = Data Continuation Number



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

Reported: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218492-02	Client Sample Name: JPL GW, MW-22-3, 8/4/2022 8:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/10/22 07:00	08/10/22	16:36	MGC	MS-V5	1	B146306	EPA 524.2

DCN = Data Continuation Number



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Reported: 08/25/2022 16:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218492-02	Client Sample Name: JPL GW, MW-22-3, 8/4/2022 8:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	3.1	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/16/22 22:00	08/17/22 15:36	TMS	IC6	1	B147028	No Prep

DCN = Data Continuation Number

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Reported: 08/25/2022 16:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218492-02	Client Sample Name: JPL GW, MW-22-3, 8/4/2022 8:05:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.0022	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

DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC	
									Batch ID	Prep Method
1	EPA-218.6	08/11/22	18:30	08/12/22	17:33	KB1	IC-4	1	B146604	No Prep
2	EPA-200.8	08/09/22	18:30	08/10/22	12:42	KHS	PE-EL4	1	B146281	EPA 200.2

DCN = Data Continuation Number

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Reported: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218492-03	Client Sample Name: JPL GW, MW-22-2, 8/4/2022 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218492-03 **Client Sample Name:** JPL GW, MW-22-2, 8/4/2022 8:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218492-03	Client Sample Name: JPL GW, MW-22-2, 8/4/2022 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	92.5	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/10/22 07:00	08/10/22 17:00	MGC	MS-V5	1	B146306	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218492-03	Client Sample Name: JPL GW, MW-22-2, 8/4/2022 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/10/22 07:00	08/10/22	17:00	MGC	MS-V5	1	B146306	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218492-03	Client Sample Name: JPL GW, MW-22-2, 8/4/2022 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	2.3	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/16/22 22:00	08/17/22 15:51	TMS	IC6	1	B147028	No Prep

DCN = Data Continuation Number

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Reported: 08/25/2022 16:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218492-03	Client Sample Name: JPL GW, MW-22-2, 8/4/2022 8:30:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.0020	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/11/22 18:30	08/12/22 17:43		KB1	IC-4	1	B146604	No Prep
2	EPA-200.8	08/09/22 18:30	08/10/22 12:44		KHS	PE-EL4	1	B146281	EPA 200.2

DCN = Data Continuation Number

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Reported: 08/25/2022 16:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218492-04	Client Sample Name: JPL GW, MW-24-4, 8/4/2022 9:50:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.000098	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/11/22 18:30	08/12/22 17:53		KB1	IC-4	1	B146604	No Prep
2	EPA-200.8	08/09/22 18:30	08/10/22 12:45		KHS	PE-EL4	1	B146281	EPA 200.2

DCN = Data Continuation Number

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Reported: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218492-05	Client Sample Name: JPL GW, MW-24-3, 8/4/2022 10:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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	0.23	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: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218492-05	Client Sample Name:	JPL GW, MW-24-3, 8/4/2022 10:20:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1	
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1	
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1	
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1	
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1	
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1	
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1	
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1	

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

Reported: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218492-05	Client Sample Name: JPL GW, MW-24-3, 8/4/2022 10:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	94.4	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/10/22 07:00	08/10/22 17:24	MGC	MS-V5	1	B146306	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
 3761 Attucks Drive
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Reported: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218492-05	Client Sample Name: JPL GW, MW-24-3, 8/4/2022 10:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/10/22 07:00	08/10/22	17:24	MGC	MS-V5	1	B146306	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
 3761 Attucks Drive
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Reported: 08/25/2022 16:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218492-05	Client Sample Name: JPL GW, MW-24-3, 8/4/2022 10:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-314.0	08/16/22 22:00	08/17/22	16:06	TMS	IC6	1	B147028	No Prep

DCN = Data Continuation Number

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Reported: 08/25/2022 16:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218492-05	Client Sample Name: JPL GW, MW-24-3, 8/4/2022 10:20:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	ND	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Chromium	1.1	ug/L	3.0	0.50	EPA-200.8	ND	J	2

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/11/22 18:30	08/12/22	18:02	KB1	IC-4	1	B146604	No Prep
2	EPA-200.8	08/09/22 18:30	08/10/22	12:47	KHS	PE-EL4	1	B146281	EPA 200.2

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Reported: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218492-06	Client Sample Name:	JPL GW, MW-24-2, 8/4/2022 10:50:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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	0.81	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: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218492-06		Client Sample Name: JPL GW, MW-24-2, 8/4/2022 10:50:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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
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Reported: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218492-06	Client Sample Name: JPL GW, MW-24-2, 8/4/2022 10:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	92.0	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/10/22 07:00	08/10/22 17:48	MGC	MS-V5	1	B146306	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218492-06	Client Sample Name: JPL GW, MW-24-2, 8/4/2022 10:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/10/22 07:00	08/10/22	17:48	MGC	MS-V5	1	B146306	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218492-06	Client Sample Name: JPL GW, MW-24-2, 8/4/2022 10:50:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	15	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/16/22 22:00	08/17/22 16:22	TMS	IC6	1	B147028	No Prep

DCN = Data Continuation Number

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Reported: 08/25/2022 16:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218492-06	Client Sample Name: JPL GW, MW-24-2, 8/4/2022 10:50:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.0017	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/11/22 18:30	08/12/22 18:30	08/12/22 18:12	KB1	IC-4	1	B146604	No Prep
2	EPA-200.8	08/09/22 18:30	08/10/22 18:30	08/10/22 12:49	KHS	PE-EL4	1	B146281	EPA 200.2

DCN = Data Continuation Number

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Reported: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218492-07	Client Sample Name: JPL GW, DUP-3-3Q22, 8/4/2022 11:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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	0.89	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
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Reported: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218492-07 **Client Sample Name:** JPL GW, DUP-3-3Q22, 8/4/2022 11:05:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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
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Reported: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218492-07	Client Sample Name: JPL GW, DUP-3-3Q22, 8/4/2022 11:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	91.7	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/10/22 07:00	08/10/22 18:12	MGC	MS-V5	1	B146306	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218492-07	Client Sample Name: JPL GW, DUP-3-3Q22, 8/4/2022 11:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/10/22 07:00	08/10/22	18:12	MGC	MS-V5	1	B146306	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/25/2022 16:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218492-07	Client Sample Name: JPL GW, DUP-3-3Q22, 8/4/2022 11:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	15	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/16/22 22:00	08/17/22 16:37	TMS	IC6	1	B147028	No Prep

DCN = Data Continuation Number

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Reported: 08/25/2022 16:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218492-07	Client Sample Name: JPL GW, DUP-3-3Q22, 8/4/2022 11:05:00AM, Blaine Tech								
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Hexavalent Chromium	0.0018	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	

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/11/22 18:30	08/12/22 18:30	08/12/22 18:21	KB1	IC-4	1	B146604	No Prep
2	EPA-200.8	08/09/22 18:30	08/10/22 18:30	08/10/22 12:51	KHS	PE-EL4	1	B146281	EPA 200.2

DCN = Data Continuation Number

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Reported: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218492-08		Client Sample Name:	JPL GW, MW-24-1, 8/4/2022 12:00:00PM, Blaine Tech					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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	0.27	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	1.5	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: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218492-08 **Client Sample Name:** JPL GW, MW-24-1, 8/4/2022 12:00:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218492-08	Client Sample Name: JPL GW, MW-24-1, 8/4/2022 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	95.3	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/10/22 07:00	08/10/22 18:36	MGC	MS-V5	1	B146306	EPA 524.2

DCN = Data Continuation Number



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

Reported: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218492-08	Client Sample Name: JPL GW, MW-24-1, 8/4/2022 12:00:00PM, Blaine Tech
---------------------------	---

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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/10/22 07:00	08/10/22	18:36	MGC	MS-V5	1	B146306	EPA 524.2

DCN = Data Continuation Number



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

Reported: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218492-08	Client Sample Name: JPL GW, MW-24-1, 8/4/2022 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Chloride	81	mg/L	0.50	0.13	EPA-300.0	0.13		1
Nitrate as N	2.5	mg/L	0.10	0.024	EPA-300.0	ND		1
Sulfate	57	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	95	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-300.0	08/05/22 10:00	08/05/22	16:13	JAT	IC1	1	B146047	No Prep
2	EPA-353.2	08/05/22 17:04	08/05/22	17:04	JAT	KONE-1	1	B146196	No Prep
3	EPA-314.0	08/16/22 22:00	08/17/22	21:05	TMS	IC6	10	B147028	No Prep
4	EPA-365.1	08/06/22 08:57	08/06/22	09:06	KB1	SC-2	1	B146766	No Prep

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Reported: 08/25/2022 16:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218492-08	Client Sample Name: JPL GW, MW-24-1, 8/4/2022 12:00:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00027	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Chromium	2.5	ug/L	3.0	0.50	EPA-200.8	ND	J	2

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time	Date/Time				Batch ID	Prep Method
1	EPA-218.6	08/11/22 18:30	08/12/22 18:30	08/12/22 18:31	KB1	IC-4	1	B146604	No Prep
2	EPA-200.8	08/09/22 18:30	08/10/22 18:30	08/10/22 12:53	KHS	PE-EL4	1	B146281	EPA 200.2

DCN = Data Continuation Number

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Reported: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218492-09 **Client Sample Name:** JPL GW, EB-4-080422, 8/4/2022 12:15:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218492-09	Client Sample Name:	JPL GW, EB-4-080422, 8/4/2022 12:15:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1	
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1	
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1	
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1	
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1	
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1	
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1	
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1	

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

Reported: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218492-09	Client Sample Name: JPL GW, EB-4-080422, 8/4/2022 12:15:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	93.7	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/10/22 07:00	08/10/22 19:00	MGC	MS-V5	1	B146306	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
 3761 Attucks Drive
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Reported: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218492-09	Client Sample Name: JPL GW, EB-4-080422, 8/4/2022 12:15:00PM, Blaine Tech
---------------------------	---

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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/10/22 07:00	08/10/22	19:00	MGC	MS-V5	1	B146306	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/25/2022 16:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218492-09	Client Sample Name: JPL GW, EB-4-080422, 8/4/2022 12:15:00PM, Blaine Tech
----------------------------------	--

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

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/16/22 22:00	08/17/22 17:08	TMS	IC6	1	B147028	No Prep

DCN = Data Continuation Number

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Reported: 08/25/2022 16:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218492-09	Client Sample Name: JPL GW, EB-4-080422, 8/4/2022 12:15:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.000080	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

DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC	
									Batch ID	Prep Method
1	EPA-218.6	08/11/22	18:30	08/12/22	18:41	KB1	IC-4	1	B146604	No Prep
2	EPA-200.8	08/09/22	18:30	08/10/22	12:55	KHS	PE-EL4	1	B146281	EPA 200.2

DCN = Data Continuation Number

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Reported: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146306						
Benzene	B146306-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B146306-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B146306-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B146306-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B146306-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B146306-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B146306-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B146306-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B146306-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B146306-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B146306-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B146306-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B146306-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B146306-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B146306-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B146306-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B146306-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B146306-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B146306-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B146306-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B146306-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B146306-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B146306-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B146306-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B146306-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B146306-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B146306-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B146306-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B146306-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B146306-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B146306-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B146306-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B146306-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B146306-BLK1	ND	ug/L	0.50	0.14	

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Reported: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146306						
trans-1,3-Dichloropropene	B146306-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B146306-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B146306-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B146306-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B146306-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B146306-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B146306-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B146306-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B146306-BLK1	ND	ug/L	0.50	0.12	
Styrene	B146306-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B146306-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2,2-Tetrachloroethane	B146306-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B146306-BLK1	ND	ug/L	0.50	0.23	
Toluene	B146306-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B146306-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B146306-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B146306-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B146306-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B146306-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B146306-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B146306-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B146306-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B146306-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B146306-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B146306-BLK1	ND	ug/L	0.50	0.18	
Acetone	B146306-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B146306-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B146306-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B146306-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B146306-BLK1	ND	ug/L	2.0	2.0	
Carbon disulfide	B146306-BLK1	ND	ug/L	0.50	0.48	
trans-1,4-Dichloro-2-butene	B146306-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B146306-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B146306-BLK1	ND	ug/L	4.0	1.3	

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

Reported: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146306						
Ethyl t-butyl ether	B146306-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B146306-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B146306-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B146306-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B146306-BLK1	ND	ug/L	5.0	3.3	
Methyl iodide	B146306-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B146306-BLK1	ND	ug/L	5.0	2.4	
Methyl methacrylate	B146306-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B146306-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B146306-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B146306-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B146306-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B146306-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B146306-BLK1	96.9	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B146306-BLK1	100	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B146306-BLK1	98.1	%	80 - 120 (LCL - UCL)		

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Reported: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146306										
Benzene	B146306-BS1	LCS	24.220	25.000	ug/L	96.9		70 - 130		
Bromodichloromethane	B146306-BS1	LCS	24.470	25.000	ug/L	97.9		70 - 130		
Chlorobenzene	B146306-BS1	LCS	23.040	25.000	ug/L	92.2		70 - 130		
Chloroethane	B146306-BS1	LCS	25.980	25.000	ug/L	104		70 - 130		
1,4-Dichlorobenzene	B146306-BS1	LCS	23.670	25.000	ug/L	94.7		70 - 130		
1,1-Dichloroethane	B146306-BS1	LCS	24.490	25.000	ug/L	98.0		70 - 130		
1,1-Dichloroethene	B146306-BS1	LCS	24.790	25.000	ug/L	99.2		70 - 130		
Toluene	B146306-BS1	LCS	24.430	25.000	ug/L	97.7		70 - 130		
Trichloroethene	B146306-BS1	LCS	24.470	25.000	ug/L	97.9		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B146306-BS1	LCS	9.4100	10.000	ug/L	94.1		75 - 125		
Toluene-d8 (Surrogate)	B146306-BS1	LCS	10.140	10.000	ug/L	101		80 - 120		
4-Bromofluorobenzene (Surrogate)	B146306-BS1	LCS	10.080	10.000	ug/L	101		80 - 120		

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Reported: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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 Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: B146306		Used client sample: N									
Benzene	MS	2218561-04	ND	23.310	25.000	ug/L		93.2		70 - 130	
	MSD	2218561-04	ND	23.610	25.000	ug/L	1.3	94.4	20	70 - 130	
Bromodichloromethane	MS	2218561-04	ND	22.160	25.000	ug/L		88.6		70 - 130	
	MSD	2218561-04	ND	23.260	25.000	ug/L	4.8	93.0	20	70 - 130	
Chlorobenzene	MS	2218561-04	ND	22.660	25.000	ug/L		90.6		70 - 130	
	MSD	2218561-04	ND	22.710	25.000	ug/L	0.2	90.8	20	70 - 130	
Chloroethane	MS	2218561-04	ND	25.660	25.000	ug/L		103		70 - 130	
	MSD	2218561-04	ND	25.880	25.000	ug/L	0.9	104	20	70 - 130	
1,4-Dichlorobenzene	MS	2218561-04	ND	23.040	25.000	ug/L		92.2		70 - 130	
	MSD	2218561-04	ND	23.610	25.000	ug/L	2.4	94.4	20	70 - 130	
1,1-Dichloroethane	MS	2218561-04	0.21000	23.600	25.000	ug/L		93.6		70 - 130	
	MSD	2218561-04	0.21000	23.960	25.000	ug/L	1.5	95.0	20	70 - 130	
1,1-Dichloroethene	MS	2218561-04	ND	23.890	25.000	ug/L		95.6		70 - 130	
	MSD	2218561-04	ND	24.210	25.000	ug/L	1.3	96.8	20	70 - 130	
Toluene	MS	2218561-04	ND	23.030	25.000	ug/L		92.1		70 - 130	
	MSD	2218561-04	ND	23.060	25.000	ug/L	0.1	92.2	20	70 - 130	
Trichloroethene	MS	2218561-04	1.0300	24.040	25.000	ug/L		92.0		70 - 130	
	MSD	2218561-04	1.0300	24.040	25.000	ug/L	0	92.0	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	2218561-04	ND	8.9700	10.000	ug/L		89.7		75 - 125	
	MSD	2218561-04	ND	9.4100	10.000	ug/L	4.8	94.1		75 - 125	
Toluene-d8 (Surrogate)	MS	2218561-04	ND	10.070	10.000	ug/L		101		80 - 120	
	MSD	2218561-04	ND	9.8900	10.000	ug/L	1.8	98.9		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	2218561-04	ND	10.260	10.000	ug/L		103		80 - 120	
	MSD	2218561-04	ND	10.070	10.000	ug/L	1.9	101		80 - 120	

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Reported: 08/25/2022 16:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
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: B146306						
Nitrobenzene	B146306-BLK1	0	ug/L			
Methyl acrylate	B146306-BLK1	0	ug/L			
Chloroacetonitrile	B146306-BLK1	0	ug/L			
2-Nitropropane	B146306-BLK1	0	ug/L			
1-Chlorobutane	B146306-BLK1	0	ug/L			
1,1-Dichloropropanone	B146306-BLK1	0	ug/L			

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Reported: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146047						
Chloride	B146047-BLK1	0.13300	mg/L	0.50	0.13	J
Nitrate as N	B146047-BLK1	ND	mg/L	0.10	0.024	
Sulfate	B146047-BLK1	ND	mg/L	1.0	0.14	
QC Batch ID: B146196						
Nitrite as N	B146196-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: B146766						
ortho-Phosphate as P	B146766-BLK1	ND	mg/L	0.050	0.017	
QC Batch ID: B147028						
Perchlorate	B147028-BLK1	ND	ug/L	2.0	0.81	

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Reported: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146047										
Chloride	B146047-BS1	LCS	53.871	50.000	mg/L	108		90 - 110		
Nitrate as N	B146047-BS1	LCS	5.4520	5.0000	mg/L	109		90 - 110		
Sulfate	B146047-BS1	LCS	106.05	100.00	mg/L	106		90 - 110		
QC Batch ID: B146196										
Nitrite as N	B146196-BS1	LCS	0.48560	0.50000	mg/L	97.1		90 - 110		
QC Batch ID: B146766										
ortho-Phosphate as P	B146766-BS1	LCS	0.49780	0.50000	mg/L	99.6		90 - 110		
QC Batch ID: B147028										
Perchlorate	B147028-BS1	LCS	9.4569	10.000	ug/L	94.6		85 - 115		

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Reported: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146047		Used client sample: N									
Chloride	DUP	2218490-01	1.6360	1.5050		mg/L	8.3		10		
	MS	2218490-01	1.6360	55.990	50.000	mg/L		109		80 - 120	
	MSD	2218490-01	1.6360	55.979	50.000	mg/L	0.0	109	10	80 - 120	
Nitrate as N	DUP	2218490-01	0.082000	0.082000		mg/L	0		10		J
	MS	2218490-01	0.082000	5.4350	5.0000	mg/L		107		80 - 120	
	MSD	2218490-01	0.082000	5.4120	5.0000	mg/L	0.4	107	10	80 - 120	
Sulfate	DUP	2218490-01	0.57700	0.55600		mg/L	3.7		10		J
	MS	2218490-01	0.57700	110.11	100.00	mg/L		110		80 - 120	
	MSD	2218490-01	0.57700	110.36	100.00	mg/L	0.2	110	10	80 - 120	
QC Batch ID: B146196		Used client sample: N									
Nitrite as N	DUP	2218335-01	ND	ND		mg/L			10		
	MS	2218335-01	ND	0.52571	0.52632	mg/L		99.9		90 - 110	
	MSD	2218335-01	ND	0.51618	0.52632	mg/L	1.8	98.1	10	90 - 110	
QC Batch ID: B146766		Used client sample: Y - Description: MW-24-1, 08/04/2022 12:00									
ortho-Phosphate as P	DUP	2218492-08	ND	ND		mg/L			10		
	MS	2218492-08	ND	0.54874	0.52632	mg/L		104		90 - 110	
	MSD	2218492-08	ND	0.55747	0.52632	mg/L	1.6	106	10	90 - 110	
QC Batch ID: B147028		Used client sample: N									
Perchlorate	DUP	2218429-05	3.2148	3.1418		ug/L	2.3		15		
	MS	2218429-05	3.2148	12.645	10.101	ug/L		93.4		80 - 120	
	MSD	2218429-05	3.2148	12.432	10.101	ug/L	1.7	91.3	15	80 - 120	

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Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B146281						
Total Recoverable Chromium	B146281-BLK1	ND	ug/L	3.0	0.50	
QC Batch ID: B146604						
Hexavalent Chromium	B146604-BLK1	ND	mg/L	0.00020	0.000020	

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Reported: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146281										
Total Recoverable Chromium	B146281-BS1	LCS	38.687	40.000	ug/L	96.7		85 - 115		
QC Batch ID: B146604										
Hexavalent Chromium	B146604-BS1	LCS	0.019602	0.020000	mg/L	98.0		90 - 110		

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Reported: 08/25/2022 16:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab
									RPD	Percent Recovery	
QC Batch ID: B146281		Used client sample: N									
Total Recoverable Chromium	DUP	2218561-04	1.6540	1.7240		ug/L	4.1		20		J
	MS	2218561-04	1.6540	41.029	40.000	ug/L		98.4		70 - 130	
	MSD	2218561-04	1.6540	36.258	40.000	ug/L	12.3	86.5	20	70 - 130	
QC Batch ID: B146604		Used client sample: Y - Description: MW-22-3, 08/04/2022 08:05									
Hexavalent Chromium	DUP	2218492-02	0.0021850	0.0021690		mg/L	0.7		10		
	MS	2218492-02	0.0021850	0.021727	0.020202	mg/L		96.7		90 - 110	
	MSD	2218492-02	0.0021850	0.021648	0.020202	mg/L	0.4	96.3	10	90 - 110	

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Reported: 08/25/2022 16:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
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: 08/23/2022

David Conner

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

Client Project: 3Q22
BCL Project: JPL- GW Monitoring Wells-CLP
BCL Work Order: 2218561
Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 8/5/2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Natalie Serda".

Contact Person: Natalie Serda
Client Service Rep

A handwritten signature in black ink that reads "Stuart Buttram".

Stuart Buttram
Operations Manager

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

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Chain of Custody Form



Page 1 of 1

***Required Fields**

Client: Tidewater, Inc. Attn: David Conner Street Address: 3761 Attucks Drive City: Powell State: OH Zip: 43065 Phone: (626) 288-5715 Fax: (614) 792-2897 Email Address: david.conner@jideh2o.net Submission #: 22-18562 22-18561		Project Description: JPL-GW Monitoring Project Code: 3Q22 Sampler (s): Blaine Tech	
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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No *Standard Turnaround = 10		Analysis Requested Orthophosphate 365.1 Cl, NO3, NO2, SO4 Hexavalent Cr 6-218.6 (mg/L) Perchlorate TRM: Cr VOCs EPA 524.2 Matrix: W	
Sample # -1 TB-5-080522 -2 MW-23-4 -3 MW-23-3 -4 MW-23-2 -5 MW-26-2 -6 DP-4-3822 -7 EB-5-080522		Date 08/08/22 07/50 08/30 09/00 10/15 11/00 11/30	
Sample Description TB-5-080522 MW-23-4 MW-23-3 MW-23-2 MW-26-2 DP-4-3822 EB-5-080522		Matrix* W W W W W W W	
Notes: Laboratory please re-select 2 SDGs for Level IV Validation MS/MSD		HOLDING TIME DO Cl ₂ BOD MBAS OOT NO ₂ NO ₃ OP SS	

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

Comments: PLEASE NOTATE WHICH SAMPLES TO USE FOR QC (MS/MSD) 90% Level III and 10% Level IV data validation required: Level IV Notated on C of C NOTE: ALL ANALYSIS REQUIRED TO HAVE CALIBRATION SUMMARIES (Inform QC)	Global ID: 1. Relinquished By: _____ Date: 08/15/22 Time: 12:20 2. Relinquished By: _____ Date: 08/15/22 Time: 08:31 3. Relinquished By: _____ Date: 08/15/22 Time: 12:20
--	---

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

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PACE ANALYTICAL <u>2218561</u>		COOLER RECEIPT FORM		Page <u>1</u> Of <u>1</u>	
Submission #: <u>22-18562</u>		<u>22-18561</u>			
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace 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 checked="" type="checkbox"/> <u>W/S</u>
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <u>0.01</u> Container: <u>PE</u> Thermometer ID: <u>274</u>		Date/Time <u>8/5/22</u> 1858	
		Temperature: (A) <u>0.8</u> °C / (C) <u>0.9</u> °C		Analyst Init <u>PRE</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES			D	G,H	D	D	D			
2oz Cr ⁶	A	E	I,J	E	E	E				
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz	B	F	K,L	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		A-C	A-F	A-L	A-C	A-C			
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 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: CMZ Date/Time: 8/16/22 @ 0945
 A = Actual / C = Corrected Rev 23 05/20/22



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

Reported: 08/23/2022 14:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
2218561-01	COC Number:	---	Receive Date: 08/05/2022 18:38
	Project Number:	JPL GW	Sampling Date: 08/05/2022 07:00
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	TB-5-080522	Lab Matrix: Water
	Sampled By:	BTST	Sample Type: Trip Blank
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): TB-5
			Matrix: WG
			Sample QC Type (SACode): CS
		Cooler ID:	
2218561-02	COC Number:	---	Receive Date: 08/05/2022 18:38
	Project Number:	JPL GW	Sampling Date: 08/05/2022 07:50
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	MW-23-4	Lab Matrix: Water
	Sampled By:	BTST	Sample Type: Water
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): MW-23-4
			Matrix: WG
			Sample QC Type (SACode): CS
		Cooler ID:	
2218561-03	COC Number:	---	Receive Date: 08/05/2022 18:38
	Project Number:	JPL GW	Sampling Date: 08/05/2022 08:30
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	MW-23-3	Lab Matrix: Water
	Sampled By:	BTST	Sample Type: Water
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): MW-23-3
			Matrix: WG
			Sample QC Type (SACode): CS
		Cooler ID:	

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 Powell, OH 43065

Reported: 08/23/2022 14:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information					
2218561-04	COC Number:	---	Receive Date:	08/05/2022 18:38		
	Project Number:	JPL GW	Sampling Date:	08/05/2022 09:00		
	Sampling Location:	---	Sample Depth:	---		
	Sampling Point:	MW-23-2	Lab Matrix:	Water		
	Sampled By:	BTST	Sample Type:	Water		
	Delivery Work Order:					
	Global ID: 0000000000					
	Location ID (FieldPoint): MW-23-2					
	Matrix: WG					
	Sample QC Type (SACode): CS					
Cooler ID:						
2218561-05	COC Number:	---	Receive Date:	08/05/2022 18:38		
	Project Number:	JPL GW	Sampling Date:	08/05/2022 10:45		
	Sampling Location:	---	Sample Depth:	---		
	Sampling Point:	MW-26-2	Lab Matrix:	Water		
	Sampled By:	BTST	Sample Type:	Water		
	Delivery Work Order:					
	Global ID: 0000000000					
	Location ID (FieldPoint): MW-26-2					
	Matrix: WG					
	Sample QC Type (SACode): CS					
Cooler ID:						
2218561-06	COC Number:	---	Receive Date:	08/05/2022 18:38		
	Project Number:	JPL GW	Sampling Date:	08/05/2022 11:00		
	Sampling Location:	---	Sample Depth:	---		
	Sampling Point:	DUP-4-3Q22	Lab Matrix:	Water		
	Sampled By:	BTST	Sample Type:	Water		
	Delivery Work Order:					
	Global ID: 0000000000					
	Location ID (FieldPoint): DUP-4-3Q22					
	Matrix: WG					
	Sample QC Type (SACode): CS					
Cooler ID:						

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/23/2022 14:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2218561-07	COC Number:	---	Receive Date:	08/05/2022 18:38
	Project Number:	JPL GW	Sampling Date:	08/05/2022 11:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	EB-5-080522	Lab Matrix:	Water
	Sampled By:	BTST	Sample Type:	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): EB-5	
			Matrix: WG	
			Sample QC Type (SACode): CS	
		Cooler ID:		

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Tidewater Inc. - Powell
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 Powell, OH 43065

Reported: 08/23/2022 14:50
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218561-01 **Client Sample Name:** JPL GW, TB-5-080522, 8/5/2022 7:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/23/2022 14:50
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218561-01	Client Sample Name: JPL GW, TB-5-080522, 8/5/2022 7:00:00AM
----------------------------------	--

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

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

Reported: 08/23/2022 14:50
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218561-01	Client Sample Name: JPL GW, TB-5-080522, 8/5/2022 7:00:00AM
---------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	92.1	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	104	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/10/22 07:00	08/10/22 14:12	MGC	MS-V5	1	B146306	EPA 524.2

DCN = Data Continuation Number



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

Reported: 08/23/2022 14:50
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218561-01	Client Sample Name: JPL GW, TB-5-080522, 8/5/2022 7:00:00AM
---------------------------	---

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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/10/22 07:00	08/10/22	14:12	MGC	MS-V5	1	B146306	EPA 524.2

DCN = Data Continuation Number

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 Powell, OH 43065

Reported: 08/23/2022 14:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218561-02	Client Sample Name: JPL GW, MW-23-4, 8/5/2022 7:50:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.0042	mg/L	0.00020	0.000020	EPA-218.6	0.000028		1
Total Recoverable Chromium	4.6	ug/L	3.0	0.50	EPA-200.8	ND		2

DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC	
									Batch ID	Prep Method
1	EPA-218.6	08/09/22	11:00	08/09/22	16:14	KB1	IC-4	1	B146242	No Prep
2	EPA-200.8	08/09/22	18:30	08/10/22	12:57	KHS	PE-EL4	1	B146281	EPA 200.2

DCN = Data Continuation Number

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

Reported: 08/23/2022 14:50
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218561-03 **Client Sample Name:** JPL GW, MW-23-3, 8/5/2022 8:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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
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Reported: 08/23/2022 14:50
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218561-03		Client Sample Name: JPL GW, MW-23-3, 8/5/2022 8:30:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/23/2022 14:50
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218561-03	Client Sample Name: JPL GW, MW-23-3, 8/5/2022 8:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	95.6	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/10/22 07:00	08/10/22 14:36	MGC	MS-V5	1	B146306	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/23/2022 14:50
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218561-03	Client Sample Name: JPL GW, MW-23-3, 8/5/2022 8:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/10/22 07:00	08/10/22	14:36	MGC	MS-V5	1	B146306	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/23/2022 14:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218561-03	Client Sample Name: JPL GW, MW-23-3, 8/5/2022 8:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	3.5	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-314.0	08/17/22 23:50	08/18/22	21:45	KB1	IC6	1	B147121	No Prep

DCN = Data Continuation Number

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Reported: 08/23/2022 14:50
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218561-03	Client Sample Name: JPL GW, MW-23-3, 8/5/2022 8:30:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.0026	mg/L	0.00020	0.000020	EPA-218.6	0.000028		1
Total Recoverable Chromium	3.3	ug/L	3.0	0.50	EPA-200.8	ND		2

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/09/22 11:00	08/09/22 16:24		KB1	IC-4	1	B146242	No Prep
2	EPA-200.8	08/09/22 18:30	08/10/22 13:58		KHS	PE-EL4	1	B146282	EPA 200.2

DCN = Data Continuation Number

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Reported: 08/23/2022 14:50
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218561-04	Client Sample Name:	JPL GW, MW-23-2, 8/5/2022 9:00:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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	0.51	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	0.21	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: 08/23/2022 14:50
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218561-04	Client Sample Name:	JPL GW, MW-23-2, 8/5/2022 9:00:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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	0.54	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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Tidewater Inc. - Powell
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 Powell, OH 43065

Reported: 08/23/2022 14:50
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218561-04	Client Sample Name: JPL GW, MW-23-2, 8/5/2022 9:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	84.2	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/10/22 07:00	08/10/22 11:49	MGC	MS-V5	1	B146306	EPA 524.2

DCN = Data Continuation Number



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

Reported: 08/23/2022 14:50
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218561-04	Client Sample Name: JPL GW, MW-23-2, 8/5/2022 9:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/10/22 07:00	08/10/22	11:49	MGC	MS-V5	1	B146306	EPA 524.2

DCN = Data Continuation Number



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

Reported: 08/23/2022 14:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218561-04	Client Sample Name: JPL GW, MW-23-2, 8/5/2022 9:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	4.4	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/17/22 23:50	08/18/22 19:12	KB1	IC6	1	B147121	No Prep

DCN = Data Continuation Number

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Tidewater Inc. - Powell
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Reported: 08/23/2022 14:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218561-04	Client Sample Name: JPL GW, MW-23-2, 8/5/2022 9:00:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.0018	mg/L	0.00020	0.000020	EPA-218.6	0.000028		1
Total Recoverable Chromium	1.7	ug/L	3.0	0.50	EPA-200.8	ND	J	2

DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC	
									Batch ID	Prep Method
1	EPA-218.6	08/09/22	11:00	08/09/22	14:48	RC1	IC-4	1	B146242	No Prep
2	EPA-200.8	08/09/22	18:30	08/10/22	12:24	KHS	PE-EL4	1	B146281	EPA 200.2

DCN = Data Continuation Number

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Tidewater Inc. - Powell
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Reported: 08/23/2022 14:50
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218561-05		Client Sample Name: JPL GW, MW-26-2, 8/5/2022 10:45:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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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 3761 Attucks Drive
 Powell, OH 43065

Reported: 08/23/2022 14:50
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218561-05	Client Sample Name: JPL GW, MW-26-2, 8/5/2022 10:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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	0.21	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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Tidewater Inc. - Powell
 3761 Attucks Drive
 Powell, OH 43065

Reported: 08/23/2022 14:50
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218561-05	Client Sample Name: JPL GW, MW-26-2, 8/5/2022 10:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	94.0	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/10/22 07:00	08/10/22 15:00	MGC	MS-V5	1	B146306	EPA 524.2

DCN = Data Continuation Number



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

Reported: 08/23/2022 14:50
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218561-05	Client Sample Name: JPL GW, MW-26-2, 8/5/2022 10:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/10/22 07:00	08/10/22	15:00	MGC	MS-V5	1	B146306	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/23/2022 14:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218561-05	Client Sample Name: JPL GW, MW-26-2, 8/5/2022 10:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	3.0	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-314.0	08/17/22 23:50	08/18/22 22:01		KB1	IC6	1	B147121	No Prep

DCN = Data Continuation Number

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Reported: 08/23/2022 14:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218561-05	Client Sample Name: JPL GW, MW-26-2, 8/5/2022 10:45:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00080	mg/L	0.00020	0.000020	EPA-218.6	0.000028		1
Total Recoverable Chromium	2.5	ug/L	3.0	0.50	EPA-200.8	ND	J	2

DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC	
									Batch ID	Prep Method
1	EPA-218.6	08/09/22	11:00	08/09/22	15:27	KB1	IC-4	1	B146242	No Prep
2	EPA-200.8	08/09/22	18:30	08/10/22	14:00	KHS	PE-EL4	1	B146282	EPA 200.2

DCN = Data Continuation Number

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Reported: 08/23/2022 14:50
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218561-06	Client Sample Name:	JPL GW, DUP-4-3Q22, 8/5/2022 11:00:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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	1.3	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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 Powell, OH 43065

Reported: 08/23/2022 14:50
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218561-06	Client Sample Name:	JPL GW, DUP-4-3Q22, 8/5/2022 11:00:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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	0.20	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: 08/23/2022 14:50
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218561-06	Client Sample Name: JPL GW, DUP-4-3Q22, 8/5/2022 11:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	93.9	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/10/22 07:00	08/10/22 15:24	MGC	MS-V5	1	B146306	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/23/2022 14:50
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218561-06	Client Sample Name: JPL GW, DUP-4-3Q22, 8/5/2022 11:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/10/22 07:00	08/10/22	15:24	MGC	MS-V5	1	B146306	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/23/2022 14:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218561-06	Client Sample Name: JPL GW, DUP-4-3Q22, 8/5/2022 11:00:00AM
----------------------------------	--

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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-314.0	08/17/22 23:50	08/18/22 22:16		KB1	IC6	1	B147121	No Prep

DCN = Data Continuation Number

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Reported: 08/23/2022 14:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218561-06	Client Sample Name: JPL GW, DUP-4-3Q22, 8/5/2022 11:00:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00095	mg/L	0.00020	0.000020	EPA-218.6	0.000028		1
Total Recoverable Chromium	9.1	ug/L	3.0	0.50	EPA-200.8	ND		2

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/09/22 11:00	08/09/22 15:36		KB1	IC-4	1	B146242	No Prep
2	EPA-200.8	08/09/22 18:30	08/10/22 14:02		KHS	PE-EL4	1	B146282	EPA 200.2

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Reported: 08/23/2022 14:50
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218561-07 **Client Sample Name:** JPL GW, EB-5-080522, 8/5/2022 11:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/23/2022 14:50
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218561-07 **Client Sample Name:** JPL GW, EB-5-080522, 8/5/2022 11:30:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/23/2022 14:50
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218561-07	Client Sample Name: JPL GW, EB-5-080522, 8/5/2022 11:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	92.8	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/10/22 07:00	08/10/22 15:48	MGC	MS-V5	1	B146306	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/23/2022 14:50
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218561-07	Client Sample Name: JPL GW, EB-5-080522, 8/5/2022 11:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/10/22 07:00	08/10/22	15:48	MGC	MS-V5	1	B146306	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/23/2022 14:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218561-07	Client Sample Name: JPL GW, EB-5-080522, 8/5/2022 11:30:00AM
----------------------------------	---

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

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/17/22 23:50	08/18/22 22:31	KB1	IC6	1	B147121	No Prep

DCN = Data Continuation Number

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Tidewater Inc. - Powell
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Reported: 08/23/2022 14:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218561-07	Client Sample Name: JPL GW, EB-5-080522, 8/5/2022 11:30:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.000093	mg/L	0.00020	0.000020	EPA-218.6	0.000028	J	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC	
									Batch ID	Prep Method
1	EPA-218.6	08/09/22	11:00	08/09/22	15:46	KB1	IC-4	1	B146242	No Prep
2	EPA-200.8	08/09/22	18:30	08/10/22	14:04	KHS	PE-EL4	1	B146282	EPA 200.2

DCN = Data Continuation Number

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Reported: 08/23/2022 14:50
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146306						
Benzene	B146306-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B146306-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B146306-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B146306-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B146306-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B146306-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B146306-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B146306-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B146306-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B146306-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B146306-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B146306-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B146306-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B146306-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B146306-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B146306-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B146306-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B146306-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B146306-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B146306-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B146306-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B146306-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B146306-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B146306-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B146306-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B146306-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B146306-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B146306-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B146306-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B146306-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B146306-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B146306-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B146306-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B146306-BLK1	ND	ug/L	0.50	0.14	

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Reported: 08/23/2022 14:50
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146306						
trans-1,3-Dichloropropene	B146306-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B146306-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B146306-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B146306-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B146306-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B146306-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B146306-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B146306-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B146306-BLK1	ND	ug/L	0.50	0.12	
Styrene	B146306-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B146306-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2,2-Tetrachloroethane	B146306-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B146306-BLK1	ND	ug/L	0.50	0.23	
Toluene	B146306-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B146306-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B146306-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B146306-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B146306-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B146306-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B146306-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B146306-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B146306-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B146306-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B146306-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B146306-BLK1	ND	ug/L	0.50	0.18	
Acetone	B146306-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B146306-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B146306-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B146306-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B146306-BLK1	ND	ug/L	2.0	2.0	
Carbon disulfide	B146306-BLK1	ND	ug/L	0.50	0.48	
trans-1,4-Dichloro-2-butene	B146306-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B146306-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B146306-BLK1	ND	ug/L	4.0	1.3	

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Reported: 08/23/2022 14:50
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146306						
Ethyl t-butyl ether	B146306-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B146306-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B146306-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B146306-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B146306-BLK1	ND	ug/L	5.0	3.3	
Methyl iodide	B146306-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B146306-BLK1	ND	ug/L	5.0	2.4	
Methyl methacrylate	B146306-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B146306-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B146306-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B146306-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B146306-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B146306-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B146306-BLK1	96.9	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B146306-BLK1	100	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B146306-BLK1	98.1	%	80 - 120 (LCL - UCL)		

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Reported: 08/23/2022 14:50
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146306										
Benzene	B146306-BS1	LCS	24.220	25.000	ug/L	96.9		70 - 130		
Bromodichloromethane	B146306-BS1	LCS	24.470	25.000	ug/L	97.9		70 - 130		
Chlorobenzene	B146306-BS1	LCS	23.040	25.000	ug/L	92.2		70 - 130		
Chloroethane	B146306-BS1	LCS	25.980	25.000	ug/L	104		70 - 130		
1,4-Dichlorobenzene	B146306-BS1	LCS	23.670	25.000	ug/L	94.7		70 - 130		
1,1-Dichloroethane	B146306-BS1	LCS	24.490	25.000	ug/L	98.0		70 - 130		
1,1-Dichloroethene	B146306-BS1	LCS	24.790	25.000	ug/L	99.2		70 - 130		
Toluene	B146306-BS1	LCS	24.430	25.000	ug/L	97.7		70 - 130		
Trichloroethene	B146306-BS1	LCS	24.470	25.000	ug/L	97.9		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B146306-BS1	LCS	9.4100	10.000	ug/L	94.1		75 - 125		
Toluene-d8 (Surrogate)	B146306-BS1	LCS	10.140	10.000	ug/L	101		80 - 120		
4-Bromofluorobenzene (Surrogate)	B146306-BS1	LCS	10.080	10.000	ug/L	101		80 - 120		

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Reported: 08/23/2022 14:50
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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 Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: B146306		Used client sample: Y - Description: MW-23-2, 08/05/2022 09:00									
Benzene	MS	2218561-04	ND	23.310	25.000	ug/L		93.2		70 - 130	
	MSD	2218561-04	ND	23.610	25.000	ug/L	1.3	94.4	20	70 - 130	
Bromodichloromethane	MS	2218561-04	ND	22.160	25.000	ug/L		88.6		70 - 130	
	MSD	2218561-04	ND	23.260	25.000	ug/L	4.8	93.0	20	70 - 130	
Chlorobenzene	MS	2218561-04	ND	22.660	25.000	ug/L		90.6		70 - 130	
	MSD	2218561-04	ND	22.710	25.000	ug/L	0.2	90.8	20	70 - 130	
Chloroethane	MS	2218561-04	ND	25.660	25.000	ug/L		103		70 - 130	
	MSD	2218561-04	ND	25.880	25.000	ug/L	0.9	104	20	70 - 130	
1,4-Dichlorobenzene	MS	2218561-04	ND	23.040	25.000	ug/L		92.2		70 - 130	
	MSD	2218561-04	ND	23.610	25.000	ug/L	2.4	94.4	20	70 - 130	
1,1-Dichloroethane	MS	2218561-04	0.21000	23.600	25.000	ug/L		93.6		70 - 130	
	MSD	2218561-04	0.21000	23.960	25.000	ug/L	1.5	95.0	20	70 - 130	
1,1-Dichloroethene	MS	2218561-04	ND	23.890	25.000	ug/L		95.6		70 - 130	
	MSD	2218561-04	ND	24.210	25.000	ug/L	1.3	96.8	20	70 - 130	
Toluene	MS	2218561-04	ND	23.030	25.000	ug/L		92.1		70 - 130	
	MSD	2218561-04	ND	23.060	25.000	ug/L	0.1	92.2	20	70 - 130	
Trichloroethene	MS	2218561-04	1.0300	24.040	25.000	ug/L		92.0		70 - 130	
	MSD	2218561-04	1.0300	24.040	25.000	ug/L	0	92.0	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	2218561-04	ND	8.9700	10.000	ug/L		89.7		75 - 125	
	MSD	2218561-04	ND	9.4100	10.000	ug/L	4.8	94.1		75 - 125	
Toluene-d8 (Surrogate)	MS	2218561-04	ND	10.070	10.000	ug/L		101		80 - 120	
	MSD	2218561-04	ND	9.8900	10.000	ug/L	1.8	98.9		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	2218561-04	ND	10.260	10.000	ug/L		103		80 - 120	
	MSD	2218561-04	ND	10.070	10.000	ug/L	1.9	101		80 - 120	

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Reported: 08/23/2022 14:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
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: B146306						
Nitrobenzene	B146306-BLK1	0	ug/L			
Methyl acrylate	B146306-BLK1	0	ug/L			
Chloroacetonitrile	B146306-BLK1	0	ug/L			
2-Nitropropane	B146306-BLK1	0	ug/L			
1-Chlorobutane	B146306-BLK1	0	ug/L			
1,1-Dichloropropanone	B146306-BLK1	0	ug/L			

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Reported: 08/23/2022 14:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
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: B147121						
Perchlorate	B147121-BLK1	ND	ug/L	2.0	0.81	

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Reported: 08/23/2022 14:50
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B147121										
Perchlorate	B147121-BS1	LCS	9.1894	10.000	ug/L	91.9		85 - 115		

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Reported: 08/23/2022 14:50
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B147121		Used client sample: Y - Description: MW-23-2, 08/05/2022 09:00									
Perchlorate	DUP	2218561-04	4.4056	4.5292		ug/L	2.8		15		
	MS	2218561-04	4.4056	13.897	10.101	ug/L		94.0		80 - 120	
	MSD	2218561-04	4.4056	14.054	10.101	ug/L	1.1	95.5	15	80 - 120	

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Reported: 08/23/2022 14:50
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146242						
Hexavalent Chromium	B146242-BLK1	0.000028000	mg/L	0.00020	0.000020	J
QC Batch ID: B146281						
Total Recoverable Chromium	B146281-BLK1	ND	ug/L	3.0	0.50	
QC Batch ID: B146282						
Total Recoverable Chromium	B146282-BLK1	ND	ug/L	3.0	0.50	

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Reported: 08/23/2022 14:50
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146242										
Hexavalent Chromium	B146242-BS1	LCS	0.020085	0.020000	mg/L	100		90 - 110		
	B146242-BSD1	LCSD	0.020125	0.020000	mg/L	101	0.2	90 - 110	10	
QC Batch ID: B146281										
Total Recoverable Chromium	B146281-BS1	LCS	38.687	40.000	ug/L	96.7		85 - 115		
QC Batch ID: B146282										
Total Recoverable Chromium	B146282-BS1	LCS	42.655	40.000	ug/L	107		85 - 115		

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Reported: 08/23/2022 14:50
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab
									RPD	Percent Recovery	
QC Batch ID: B146242		Used client sample: Y - Description: MW-23-2, 08/05/2022 09:00									
Hexavalent Chromium	DUP	2218561-04	0.0018360	0.0018170		mg/L	1.0		10		
	MS	2218561-04	0.0018360	0.021917	0.020202	mg/L		99.4		90 - 110	
	MSD	2218561-04	0.0018360	0.022016	0.020202	mg/L	0.5	99.9	10	90 - 110	
QC Batch ID: B146281		Used client sample: Y - Description: MW-23-2, 08/05/2022 09:00									
Total Recoverable Chromium	DUP	2218561-04	1.6540	1.7240		ug/L	4.1		20		J
	MS	2218561-04	1.6540	41.029	40.000	ug/L		98.4		70 - 130	
	MSD	2218561-04	1.6540	36.258	40.000	ug/L	12.3	86.5	20	70 - 130	
QC Batch ID: B146282		Used client sample: N									
Total Recoverable Chromium	DUP	2218629-01	3.6140	3.2330		ug/L	11.1		20		
	MS	2218629-01	3.6140	40.009	40.000	ug/L		91.0		70 - 130	
	MSD	2218629-01	3.6140	42.895	40.000	ug/L	7.0	98.2	20	70 - 130	

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Reported: 08/23/2022 14:50
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
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: 08/25/2022

David Conner

Tidewater Inc. - Powell

3761 Attucks Drive
Powell, OH 43065

Client Project: 3Q22

BCL Project: JPL- GW Monitoring Wells-CLP

BCL Work Order: 2218698

Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 8/8/2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Natalie Serda".

Contact Person: Natalie Serda
Client Service Rep

A handwritten signature in black ink that reads "Stuart Buttram".

Stuart Buttram
Operations Manager

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

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Chain of Custody Form



Page 1 of 1

Client: Tidewater, Inc.
Client: Tidewater
Attn: David Corner
Address: 3781 Allucks Drive
City: Powell **State:** OH **Zip:** 43065
Phone: (626) 298-5715 **Fax:** (614) 792-2897
Email: david.corner@tidewater.net
Submission #: 11-170413

Project Description: JPL-GW Monitoring
Project Code: 3022
Sampler (s): Blaine Tech

Sample #	Sample Description	Date	Time	Matrix*
-1	FB-6-080822	08/08/22	0700	W
-2	MW-4-3	08/30	0800	W
-3	MW-4-2	09/30	0930	W
-4	MW-12-5	10/5	1005	W
-5	MW-12-4	10/5	1045	W
-6	MW-12-3	11/00	1100	W
-7	DWP-5-3822	12/00	1200	W
-8	MW-12-2	12/15	1215	W
-9	FB-6-080822	12/30	1230	W
-10	SB-2-080822			W

Analysis Requested

Orthophosphate 365.1	
CI, NO3, NO2, SO4	
Hexavalent Cr6 -218.8 (mg/L)	X
Perchlorate	X
TRM: Cr	X
VOCs EPA 524.2	X

Billing
Client: Tidewater
Attn: David Corner
Address: 3781 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**

Notes
 Laboratory please select RSDs for Level IV validation
 ms/msd
 VISIBILITY FOLDING TIME
 100% NO. OP. SS
 DO ST. BOD MBAS GOT
 CHECK BY DISTRIBUTION
 SUB OUT

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

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

Lab TAT Approval: _____ *Additional Charges May Apply

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

Global ID:

1. Relinquished By:	Date:	Time:
2. Relinquished By:	Date:	Time:
3. Relinquished By:	Date:	Time:

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

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page	Of					
Submission #: <u>22-180498</u>										
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace 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 checked="" type="checkbox"/> NO <input type="checkbox"/> W / S					
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments:										
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments:										
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>										
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <u>0.97</u> Container: <u>PE</u> Thermometer ID: <u>274</u>		Date/Time: <u>8/22 1900</u>						
		Temperature: (A) <u>1.4</u> °C / (C) <u>1.5</u> °C		Analyst Init: <u>PRE</u>						
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	G,H	D	D	D	D	D
2oz Cr ⁶		E	E	E		E	E	E	E	E
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz		F	F	F		F	F	F	F	F
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A									
40ml VOA VIAL		A-C	A-C	A-C	A-F	A-C	A-C	A-C	A-C	A-C
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/508.3/5081A										
QT EPA 515.1/5151A										
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 8915M										
QT EPA 8270C										
3oz / 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: CAB Date/Time: 8/22 0730
 A = Actual / C = Corrected



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

Reported: 08/25/2022 17:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information					
2218698-01	COC Number:	---	Receive Date:	08/08/2022 19:00		
	Project Number:	JPL GW	Sampling Date:	08/08/2022 07:00		
	Sampling Location:	---	Sample Depth:	---		
	Sampling Point:	TB-6-080822	Lab Matrix:	Water		
	Sampled By:	BTST	Sample Type:	Trip Blank		
			Delivery Work Order:			
			Global ID:	0000000000		
			Location ID (FieldPoint):	TB-6		
			Matrix:	WG		
			Sample QC Type (SACode):	CS		
		Cooler ID:				
2218698-02	COC Number:	---	Receive Date:	08/08/2022 19:00		
	Project Number:	JPL GW	Sampling Date:	08/08/2022 08:00		
	Sampling Location:	---	Sample Depth:	---		
	Sampling Point:	MW-4-3	Lab Matrix:	Water		
	Sampled By:	BTST	Sample Type:	Groundwater		
			Delivery Work Order:			
			Global ID:			
			Location ID (FieldPoint):	MW-4-3		
			Matrix:	WG		
			Sample QC Type (SACode):	CS		
		Cooler ID:				
2218698-03	COC Number:	---	Receive Date:	08/08/2022 19:00		
	Project Number:	JPL GW	Sampling Date:	08/08/2022 08:30		
	Sampling Location:	---	Sample Depth:	---		
	Sampling Point:	MW-4-2	Lab Matrix:	Water		
	Sampled By:	BTST	Sample Type:	Groundwater		
			Delivery Work Order:			
			Global ID:			
			Location ID (FieldPoint):	MW-4-2		
			Matrix:	WG		
			Sample QC Type (SACode):	CS		
		Cooler ID:				

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

Reported: 08/25/2022 17:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
2218698-04	COC Number:	---	Receive Date: 08/08/2022 19:00
	Project Number:	JPL GW	Sampling Date: 08/08/2022 09:30
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	MW-12-5	Lab Matrix: Water
	Sampled By:	BTST	Sample Type: Groundwater
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): MW-12-5
			Matrix: WG
			Sample QC Type (SACode): CS
		Cooler ID:	
2218698-05	COC Number:	---	Receive Date: 08/08/2022 19:00
	Project Number:	JPL GW	Sampling Date: 08/08/2022 10:05
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	MW-12-4	Lab Matrix: Water
	Sampled By:	BTST	Sample Type: Groundwater
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): MW-12-4
			Matrix: WG
			Sample QC Type (SACode): CS
		Cooler ID:	
2218698-06	COC Number:	---	Receive Date: 08/08/2022 19:00
	Project Number:	JPL GW	Sampling Date: 08/08/2022 10:45
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	MW-12-3	Lab Matrix: Water
	Sampled By:	BTST	Sample Type: Groundwater
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): MW-12-3
			Matrix: WG
			Sample QC Type (SACode): CS
		Cooler ID:	

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 Powell, OH 43065

Reported: 08/25/2022 17:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
2218698-07	COC Number:	---	Receive Date: 08/08/2022 19:00
	Project Number:	JPL GW	Sampling Date: 08/08/2022 11:00
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	DUP-5-3Q22	Lab Matrix: Water
	Sampled By:	BTST	Sample Type: Groundwater
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): DUP-5
			Matrix: WG
			Sample QC Type (SACode): CS
		Cooler ID:	
2218698-08	COC Number:	---	Receive Date: 08/08/2022 19:00
	Project Number:	JPL GW	Sampling Date: 08/08/2022 12:00
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	MW-12-2	Lab Matrix: Water
	Sampled By:	BTST	Sample Type: Groundwater
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): MW-12-2
			Matrix: WG
			Sample QC Type (SACode): CS
		Cooler ID:	
2218698-09	COC Number:	---	Receive Date: 08/08/2022 19:00
	Project Number:	JPL GW	Sampling Date: 08/08/2022 12:15
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	EB-6-080822	Lab Matrix: Water
	Sampled By:	BTST	Sample Type: Groundwater
			Delivery Work Order:
			Global ID:
			Location ID (FieldPoint): EB-6
			Matrix: WG
			Sample QC Type (SACode): CS
		Cooler ID:	

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2022 17:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2218698-10	COC Number:	---	Receive Date:	08/08/2022 19:00
	Project Number:	JPL GW	Sampling Date:	08/08/2022 12:30
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SB-2-080822	Lab Matrix:	Water
	Sampled By:	BTST	Sample Type:	Groundwater
			Delivery Work Order:	
			Global ID:	
			Location ID (FieldPoint):	SB-2
			Matrix:	WG
			Sample QC Type (SACode):	CS
		Cooler ID:		

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

Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218698-01	Client Sample Name: JPL GW, TB-6-080822, 8/8/2022 7:00:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218698-01	Client Sample Name: JPL GW, TB-6-080822, 8/8/2022 7:00:00AM
----------------------------------	--

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

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

Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218698-01	Client Sample Name: JPL GW, TB-6-080822, 8/8/2022 7:00:00AM
---------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	95.9	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/10/22 12:00	08/11/22 01:46	MGC	MS-V5	1	B146307	EPA 524.2

DCN = Data Continuation Number

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Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218698-01	Client Sample Name: JPL GW, TB-6-080822, 8/8/2022 7:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/10/22 12:00	08/11/22	01:46	MGC	MS-V5	1	B146307	EPA 524.2

DCN = Data Continuation Number



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Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218698-02		Client Sample Name: JPL GW, MW-4-3, 8/8/2022 8:00:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218698-02		Client Sample Name: JPL GW, MW-4-3, 8/8/2022 8:00:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218698-02	Client Sample Name: JPL GW, MW-4-3, 8/8/2022 8:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	95.0	%	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

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/10/22 12:00	08/11/22 02:10	MGC	MS-V5	1	B146307	EPA 524.2

DCN = Data Continuation Number



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Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218698-02	Client Sample Name: JPL GW, MW-4-3, 8/8/2022 8:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/10/22 12:00	08/11/22 02:10	MGC	MS-V5	1	B146307	EPA 524.2

DCN = Data Continuation Number



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Reported: 08/25/2022 17:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218698-02	Client Sample Name: JPL GW, MW-4-3, 8/8/2022 8:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	1.4	ug/L	2.0	0.81	EPA-314.0	ND	J	1

DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC	
									Batch ID	Prep Method
1	EPA-314.0	08/22/22	11:00	08/22/22	14:43	KB1	IC6	1	B147266	No Prep

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Reported: 08/25/2022 17:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218698-02	Client Sample Name: JPL GW, MW-4-3, 8/8/2022 8:00:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.000041	mg/L	0.00020	0.000020	EPA-218.6	ND	J	1
Total Recoverable Chromium	0.77	ug/L	3.0	0.50	EPA-200.8	ND	J	2

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/11/22 22:00	08/13/22	01:14	KB1	IC-4	1	B146602	No Prep
2	EPA-200.8	08/11/22 19:40	08/15/22	14:36	KHS	PE-EL2	1	B146501	EPA 200.2

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Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218698-03	Client Sample Name:	JPL GW, MW-4-2, 8/8/2022 8:30:00AM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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	0.90	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: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218698-03	Client Sample Name:	JPL GW, MW-4-2, 8/8/2022 8:30:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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	0.36	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: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218698-03	Client Sample Name: JPL GW, MW-4-2, 8/8/2022 8:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	96.9	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/10/22 12:00	08/11/22 02:34	MGC	MS-V5	1	B146307	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218698-03	Client Sample Name: JPL GW, MW-4-2, 8/8/2022 8:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/10/22 12:00	08/11/22	02:34	MGC	MS-V5	1	B146307	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/25/2022 17:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218698-03	Client Sample Name: JPL GW, MW-4-2, 8/8/2022 8:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	46	ug/L	10	4.0	EPA-314.0	ND	A10	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/22/22 11:00	08/23/22 17:27	KB1	IC6	5	B147266	No Prep

DCN = Data Continuation Number

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Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218698-03	Client Sample Name: JPL GW, MW-4-2, 8/8/2022 8:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00022	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Chromium	0.50	ug/L	3.0	0.50	EPA-200.8	ND	J	2

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/11/22 22:00	08/13/22	01:23	KB1	IC-4	1	B146602	No Prep
2	EPA-200.8	08/11/22 19:40	08/15/22	14:38	KHS	PE-EL2	1	B146501	EPA 200.2

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Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218698-04	Client Sample Name: JPL GW, MW-12-5, 8/8/2022 9:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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	0.33	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	0.25	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: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218698-04	Client Sample Name:	JPL GW, MW-12-5, 8/8/2022 9:30:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218698-04	Client Sample Name: JPL GW, MW-12-5, 8/8/2022 9:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	95.1	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/10/22 12:00	08/11/22 02:58	MGC	MS-V5	1	B146307	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218698-04	Client Sample Name: JPL GW, MW-12-5, 8/8/2022 9:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/10/22 12:00	08/11/22	02:58	MGC	MS-V5	1	B146307	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218698-04	Client Sample Name: JPL GW, MW-12-5, 8/8/2022 9:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	1.1	ug/L	2.0	0.81	EPA-314.0	ND	J	1

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-314.0	08/22/22 11:00	08/22/22	15:44	KB1	IC6	1	B147266	No Prep

DCN = Data Continuation Number

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Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218698-05	Client Sample Name: JPL GW, MW-12-4, 8/8/2022 10:05:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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	0.43	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	0.42	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: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218698-05	Client Sample Name: JPL GW, MW-12-4, 8/8/2022 10:05:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc. - Powell
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Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218698-05	Client Sample Name: JPL GW, MW-12-4, 8/8/2022 10:05:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	97.7	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/10/22 12:00	08/10/22 23:23	MGC	MS-V5	1	B146307	EPA 524.2

DCN = Data Continuation Number



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Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218698-05	Client Sample Name: JPL GW, MW-12-4, 8/8/2022 10:05:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/10/22 12:00	08/10/22	23:23	MGC	MS-V5	1	B146307	EPA 524.2

DCN = Data Continuation Number



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Reported: 08/25/2022 17:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218698-05	Client Sample Name: JPL GW, MW-12-4, 8/8/2022 10:05:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	2.3	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/22/22 11:00	08/22/22 13:41	SAV	IC6	1	B147266	No Prep

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Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218698-06	Client Sample Name:	JPL GW, MW-12-3, 8/8/2022 10:45:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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	0.77	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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Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218698-06	Client Sample Name: JPL GW, MW-12-3, 8/8/2022 10:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218698-06	Client Sample Name: JPL GW, MW-12-3, 8/8/2022 10:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	95.2	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/10/22 12:00	08/11/22 03:22	MGC	MS-V5	1	B146307	EPA 524.2

DCN = Data Continuation Number



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Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218698-06	Client Sample Name: JPL GW, MW-12-3, 8/8/2022 10:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/10/22 12:00	08/11/22	03:22	MGC	MS-V5	1	B146307	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/25/2022 17:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218698-06	Client Sample Name: JPL GW, MW-12-3, 8/8/2022 10:45:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	2.6	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/22/22 11:00	08/22/22 15:59	KB1	IC6	1	B147266	No Prep

DCN = Data Continuation Number

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Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218698-06	Client Sample Name: JPL GW, MW-12-3, 8/8/2022 10:45:00AM								
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Hexavalent Chromium	0.00040	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	

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/11/22 22:00	08/13/22	01:33	KB1	IC-4	1	B146602	No Prep
2	EPA-200.8	08/11/22 19:40	08/15/22	14:40	KHS	PE-EL2	1	B146501	EPA 200.2

DCN = Data Continuation Number

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Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218698-07		Client Sample Name: JPL GW, DUP-5-3Q22, 8/8/2022 11:00:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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	0.93	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	0.67	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
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Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218698-07		Client Sample Name: JPL GW, DUP-5-3Q22, 8/8/2022 11:00:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218698-07	Client Sample Name: JPL GW, DUP-5-3Q22, 8/8/2022 11:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	92.3	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/10/22 12:00	08/11/22 03:46	MGC	MS-V5	1	B146307	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218698-07	Client Sample Name: JPL GW, DUP-5-3Q22, 8/8/2022 11:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/10/22 12:00	08/11/22	03:46	MGC	MS-V5	1	B146307	EPA 524.2

DCN = Data Continuation Number

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Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218698-07	Client Sample Name: JPL GW, DUP-5-3Q22, 8/8/2022 11:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	2.6	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-314.0	08/22/22 11:00	08/22/22	16:15	KB1	IC6	1	B147266	No Prep

DCN = Data Continuation Number

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Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218698-07	Client Sample Name: JPL GW, DUP-5-3Q22, 8/8/2022 11:00:00AM								
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Hexavalent Chromium	0.00039	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	

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/11/22 22:00	08/13/22	01:42	KB1	IC-4	1	B146602	No Prep
2	EPA-200.8	08/11/22 19:40	08/15/22	14:41	KHS	PE-EL2	1	B146501	EPA 200.2

DCN = Data Continuation Number

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Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218698-08	Client Sample Name: JPL GW, MW-12-2, 8/8/2022 12:00:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218698-08	Client Sample Name: JPL GW, MW-12-2, 8/8/2022 12:00:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218698-08	Client Sample Name: JPL GW, MW-12-2, 8/8/2022 12:00:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	93.6	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/10/22 12:00	08/11/22 04:10	MGC	MS-V5	1	B146307	EPA 524.2

DCN = Data Continuation Number

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

Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218698-08	Client Sample Name: JPL GW, MW-12-2, 8/8/2022 12:00:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/10/22 12:00	08/11/22	04:10	MGC	MS-V5	1	B146307	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218698-08	Client Sample Name: JPL GW, MW-12-2, 8/8/2022 12:00:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	0.87	ug/L	2.0	0.81	EPA-314.0	ND	J	1

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-314.0	08/22/22 11:00	08/22/22	16:30	KB1	IC6	1	B147266	No Prep

DCN = Data Continuation Number

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Reported: 08/25/2022 17:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218698-08	Client Sample Name: JPL GW, MW-12-2, 8/8/2022 12:00:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00021	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/11/22 22:00	08/13/22	01:52	KB1	IC-4	1	B146602	No Prep
2	EPA-200.8	08/11/22 19:40	08/15/22	14:43	KHS	PE-EL2	1	B146501	EPA 200.2

DCN = Data Continuation Number

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Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218698-09	Client Sample Name:	JPL GW, EB-6-080822, 8/8/2022 12:15:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218698-09		Client Sample Name: JPL GW, EB-6-080822, 8/8/2022 12:15:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218698-09	Client Sample Name: JPL GW, EB-6-080822, 8/8/2022 12:15:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	95.4	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/10/22 12:00	08/11/22 04:34	MGC	MS-V5	1	B146307	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218698-09	Client Sample Name: JPL GW, EB-6-080822, 8/8/2022 12:15:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/10/22 12:00	08/11/22	04:34	MGC	MS-V5	1	B146307	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/25/2022 17:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218698-09	Client Sample Name: JPL GW, EB-6-080822, 8/8/2022 12:15:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC	
									Batch ID	Prep Method
1	EPA-314.0	08/22/22	11:00	08/22/22	16:46	KB1	IC6	1	B147266	No Prep

DCN = Data Continuation Number

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Reported: 08/25/2022 17:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218698-09	Client Sample Name: JPL GW, EB-6-080822, 8/8/2022 12:15:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.000028	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/11/22 22:00	08/13/22	02:01	KB1	IC-4	1	B146602	No Prep
2	EPA-200.8	08/11/22 19:40	08/15/22	14:44	KHS	PE-EL2	1	B146501	EPA 200.2

DCN = Data Continuation Number

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Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218698-10	Client Sample Name: JPL GW, SB-2-080822, 8/8/2022 12:30:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218698-10	Client Sample Name:	JPL GW, SB-2-080822, 8/8/2022 12:30:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1	
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1	
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1	
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1	
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1	
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1	
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1	
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1	

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

Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218698-10	Client Sample Name: JPL GW, SB-2-080822, 8/8/2022 12:30:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	93.1	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/10/22 12:00	08/11/22 04:57	MGC	MS-V5	1	B146307	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218698-10	Client Sample Name: JPL GW, SB-2-080822, 8/8/2022 12:30:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/10/22 12:00	08/11/22	04:57	MGC	MS-V5	1	B146307	EPA 524.2

DCN = Data Continuation Number



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Reported: 08/25/2022 17:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218698-10	Client Sample Name: JPL GW, SB-2-080822, 8/8/2022 12:30:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC	
		Prep Date	Time	Date/Time	Time				Batch ID	Prep Method
1	EPA-314.0	08/22/22	11:00	08/22/22	17:01	KB1	IC6	1	B147266	No Prep

DCN = Data Continuation Number

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Reported: 08/25/2022 17:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218698-10	Client Sample Name: JPL GW, SB-2-080822, 8/8/2022 12:30:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/11/22 22:00	08/13/22	02:11	KB1	IC-4	1	B146602	No Prep
2	EPA-200.8	08/11/22 19:40	08/15/22	14:46	KHS	PE-EL2	1	B146501	EPA 200.2

DCN = Data Continuation Number

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Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146307						
Benzene	B146307-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B146307-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B146307-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B146307-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B146307-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B146307-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B146307-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B146307-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B146307-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B146307-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B146307-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B146307-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B146307-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B146307-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B146307-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B146307-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B146307-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B146307-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B146307-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B146307-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B146307-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B146307-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B146307-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B146307-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B146307-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B146307-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B146307-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B146307-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B146307-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B146307-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B146307-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B146307-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B146307-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B146307-BLK1	ND	ug/L	0.50	0.14	

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Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146307						
trans-1,3-Dichloropropene	B146307-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B146307-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B146307-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B146307-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B146307-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B146307-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B146307-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B146307-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B146307-BLK1	ND	ug/L	0.50	0.12	
Styrene	B146307-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B146307-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2,2-Tetrachloroethane	B146307-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B146307-BLK1	ND	ug/L	0.50	0.23	
Toluene	B146307-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B146307-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B146307-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B146307-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B146307-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B146307-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B146307-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B146307-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B146307-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B146307-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B146307-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B146307-BLK1	ND	ug/L	0.50	0.18	
Acetone	B146307-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B146307-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B146307-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B146307-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B146307-BLK1	ND	ug/L	2.0	2.0	
Carbon disulfide	B146307-BLK1	ND	ug/L	0.50	0.48	
trans-1,4-Dichloro-2-butene	B146307-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B146307-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B146307-BLK1	ND	ug/L	4.0	1.3	

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Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146307						
Ethyl t-butyl ether	B146307-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B146307-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B146307-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B146307-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B146307-BLK1	ND	ug/L	5.0	3.3	
Methyl iodide	B146307-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B146307-BLK1	ND	ug/L	5.0	2.4	
Methyl methacrylate	B146307-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B146307-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B146307-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B146307-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B146307-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B146307-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B146307-BLK1	96.4	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B146307-BLK1	99.9	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B146307-BLK1	94.2	%	80 - 120 (LCL - UCL)		

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Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146307										
Benzene	B146307-BS1	LCS	24.120	25.000	ug/L	96.5		70 - 130		
Bromodichloromethane	B146307-BS1	LCS	23.790	25.000	ug/L	95.2		70 - 130		
Chlorobenzene	B146307-BS1	LCS	22.810	25.000	ug/L	91.2		70 - 130		
Chloroethane	B146307-BS1	LCS	26.170	25.000	ug/L	105		70 - 130		
1,4-Dichlorobenzene	B146307-BS1	LCS	23.530	25.000	ug/L	94.1		70 - 130		
1,1-Dichloroethane	B146307-BS1	LCS	24.110	25.000	ug/L	96.4		70 - 130		
1,1-Dichloroethene	B146307-BS1	LCS	24.340	25.000	ug/L	97.4		70 - 130		
Toluene	B146307-BS1	LCS	23.150	25.000	ug/L	92.6		70 - 130		
Trichloroethene	B146307-BS1	LCS	25.640	25.000	ug/L	103		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B146307-BS1	LCS	9.9500	10.000	ug/L	99.5		75 - 125		
Toluene-d8 (Surrogate)	B146307-BS1	LCS	9.9800	10.000	ug/L	99.8		80 - 120		
4-Bromofluorobenzene (Surrogate)	B146307-BS1	LCS	9.9700	10.000	ug/L	99.7		80 - 120		

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Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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 Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: B146307		Used client sample: Y - Description: MW-12-4, 08/08/2022 10:05									
Benzene	MS	2218698-05	ND	24.660	25.000	ug/L		98.6		70 - 130	
	MSD	2218698-05	ND	24.830	25.000	ug/L	0.7	99.3	20	70 - 130	
Bromodichloromethane	MS	2218698-05	ND	24.080	25.000	ug/L		96.3		70 - 130	
	MSD	2218698-05	ND	24.980	25.000	ug/L	3.7	99.9	20	70 - 130	
Chlorobenzene	MS	2218698-05	ND	23.180	25.000	ug/L		92.7		70 - 130	
	MSD	2218698-05	ND	23.490	25.000	ug/L	1.3	94.0	20	70 - 130	
Chloroethane	MS	2218698-05	ND	26.570	25.000	ug/L		106		70 - 130	
	MSD	2218698-05	ND	26.840	25.000	ug/L	1.0	107	20	70 - 130	
1,4-Dichlorobenzene	MS	2218698-05	ND	24.260	25.000	ug/L		97.0		70 - 130	
	MSD	2218698-05	ND	24.520	25.000	ug/L	1.1	98.1	20	70 - 130	
1,1-Dichloroethane	MS	2218698-05	ND	25.020	25.000	ug/L		100		70 - 130	
	MSD	2218698-05	ND	25.050	25.000	ug/L	0.1	100	20	70 - 130	
1,1-Dichloroethene	MS	2218698-05	ND	25.100	25.000	ug/L		100		70 - 130	
	MSD	2218698-05	ND	25.400	25.000	ug/L	1.2	102	20	70 - 130	
Toluene	MS	2218698-05	ND	23.920	25.000	ug/L		95.7		70 - 130	
	MSD	2218698-05	ND	24.180	25.000	ug/L	1.1	96.7	20	70 - 130	
Trichloroethene	MS	2218698-05	ND	23.990	25.000	ug/L		96.0		70 - 130	
	MSD	2218698-05	ND	24.450	25.000	ug/L	1.9	97.8	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	2218698-05	ND	9.7000	10.000	ug/L		97.0		75 - 125	
	MSD	2218698-05	ND	9.6400	10.000	ug/L	0.6	96.4		75 - 125	
Toluene-d8 (Surrogate)	MS	2218698-05	ND	9.9700	10.000	ug/L		99.7		80 - 120	
	MSD	2218698-05	ND	9.9900	10.000	ug/L	0.2	99.9		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	2218698-05	ND	9.9700	10.000	ug/L		99.7		80 - 120	
	MSD	2218698-05	ND	10.030	10.000	ug/L	0.6	100		80 - 120	

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

Reported: 08/25/2022 17:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
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: B146307						
Nitrobenzene	B146307-BLK1	0	ug/L			
Methyl acrylate	B146307-BLK1	0	ug/L			
Chloroacetonitrile	B146307-BLK1	0	ug/L			
2-Nitropropane	B146307-BLK1	0	ug/L			
1-Chlorobutane	B146307-BLK1	0	ug/L			
1,1-Dichloropropanone	B146307-BLK1	0	ug/L			

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

Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B147266						
Perchlorate	B147266-BLK1	ND	ug/L	2.0	0.81	

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

Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B147266										
Perchlorate	B147266-BS1	LCS	11.330	10.000	ug/L	113		85 - 115		
	B147266-BSD1	LCSD	10.038	10.000	ug/L	100	12.1	85 - 115		15

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

Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B147266		Used client sample: Y - Description: MW-12-4, 08/08/2022 10:05									
Perchlorate	DUP	2218698-05	2.2842	2.2007		ug/L	3.7		15		
	MS	2218698-05	2.2842	11.903	10.101	ug/L		95.2		80 - 120	
	MSD	2218698-05	2.2842	11.812	10.101	ug/L	0.8	94.3	15	80 - 120	

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Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146501						
Total Recoverable Chromium	B146501-BLK1	ND	ug/L	3.0	0.50	
QC Batch ID: B146602						
Hexavalent Chromium	B146602-BLK1	ND	mg/L	0.00020	0.000020	

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

Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146501										
Total Recoverable Chromium	B146501-BS1	LCS	40.203	40.000	ug/L	101		85 - 115		
QC Batch ID: B146602										
Hexavalent Chromium	B146602-BS1	LCS	0.018887	0.020000	mg/L	94.4		90 - 110		
	B146602-BSD1	LCSD	0.018725	0.020000	mg/L	93.6	0.9	90 - 110		10

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

Reported: 08/25/2022 17:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab
									RPD	Percent Recovery	
QC Batch ID: B146501		Used client sample: N									
Total Recoverable Chromium	DUP	2218523-01	ND	ND		ug/L			20		
	MS	2218523-01	ND	39.344	40.000	ug/L		98.4		70 - 130	
	MSD	2218523-01	ND	36.408	40.000	ug/L	7.8	91.0	20	70 - 130	
QC Batch ID: B146602		Used client sample: Y - Description: MW-12-3, 08/08/2022 10:45									
Hexavalent Chromium	DUP	2218698-06	0.00039500	0.00036800		mg/L	7.1		10		
	MS	2218698-06	0.00039500	0.019703	0.020202	mg/L		95.6		90 - 110	
	MSD	2218698-06	0.00039500	0.019361	0.020202	mg/L	1.8	93.9	10	90 - 110	

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

Reported: 08/25/2022 17:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
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: 08/25/2022

David Conner

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

Client Project: 3Q22
BCL Project: JPL- GW Monitoring Wells-CLP
BCL Work Order: 2218854
Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 8/9/2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda
Client Service Rep

Stuart Buttram
Operations Manager

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

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Chain of Custody Form



Page 1 of 1

***Required Fields**

Client: Tidewater, Inc. Attn: David Connor Street Address: 3781 Alitucks Drive City: Powell State: OH Zip: 43065 Phone: (628) 298-5715 Fax: (614) 792-2897 Email Address: david.connor@tidew20.net Submission #: 11-10154		Project Description: JPL-GW Monitoring Project Code: 3022 Sampler (s): Blaine Tech		Billing Client: Tidewater Attn: David Connor Address: 3781 Alitucks 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 <small>*Standard Turnaround = 10</small>	
Analysis Requested Orthophosphate 365.1 Cl, NO3, NO2, SO4 Hexavalent Cr6 -218.6 (mg/L) Perchlorate TRM: C VOCs EPA 524.2		Matrix* W W W W W W W W W W W		Notes Laboratory, please select 2 SIDs for Level IV validation MS/MSD MS/MSD	
Sample #	Sample Description	Date	Time	Matrix*	Global ID:
-1	IB-7-080922	08/09/12	0700	W	1. Received By: [Signature] Date: 08/09/12 Time: 1710 2. Released By: [Signature] Date: 08/09/12 Time: 1830 3. Received By: [Signature] Date: 08/09/12 Time: 1830
-2	MW-11-4		0740	W	
-3	MW-11-3		0810	W	
-4	MW-11-2		0925	W	
-5	MW-11-1		1005	W	
-6	MW-21-5		1110	W	
-7	MW-21-4		1145	W	
-8	DUP-6-3622		1200	W	
-9	MW-21-3		1335	W	
-10	MW-21-2		1315	W	
-11	EB-7-080922		1338	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)

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

CHK BY [Signature] DISTRIBUTION

DO Cl₂ BOD MBAS COT

MS/MSD HOLDING TIME

OP SS

SUB OUT

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page 1 of 3	
Submission #: <u>22-18854</u>					
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace 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 checked="" type="checkbox"/> (W) S
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <u>0.97</u> Container: <u>PE</u> Thermometer ID: <u>274</u> Temperature: (A) <u>1.5</u> °C / (C) <u>1.6</u> °C		Date/Time: <u>8/12/22 1830</u> Analyst Init: <u>PPE</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES		D	DGH	D	D	D	D	D		D
2oz Cr ⁶⁺		D	BIO	E	E	E	E	E		E
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz (3oz) / 16oz			F	F	F	F	F	F		F
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A									
40ml VOA VIAL		A-C	A-E	A-C	A-C	A-C	A-C	A-C	A-F	A-C
QT EPA 1664B										
PT ODDOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL - 504										
QT EPA 508508, 50851A										
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: PPE Date/Time: 8/10/22 1835
 A = Actual / C = Corrected

PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>1</u> Of <u>3</u>	
Submission #: <u>22-18854</u>					
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace 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 checked="" type="checkbox"/> NO <input type="checkbox"/> <u>W</u> / <u>S</u>
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____ Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <u>0.97</u> Container: <u>PE</u> Thermometer ID: <u>274</u>		Date/Time: <u>8/7/12 1830</u>	
		Temperature: (A) <u>1.5</u> °C / (C) <u>1.6</u> °C		Analyst Init: <u>PRE</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES	D									
2oz Cr*	E									
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz	F									
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PhA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A-C									
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/808/1A										
QT EPA 515.1/815.1A										
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 5915M										
QT EPA 5270C										
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: JMB Date/Time: 8/10/12 1815
 A = Actual / C = Corrected

PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>3</u> of <u>3</u>	
Submission #: <u>22-18854</u>					
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace 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 checked="" type="checkbox"/> <u>W</u> / <u>S</u>
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____ Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <u>0.97</u> Container: <u>PE</u> Thermometer ID: <u>274</u> Temperature: (A) <u>3.6</u> °C / (C) <u>3.7</u> °C		Date/Time <u>8/11/22 1830</u> Analyst Init <u>PPE</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES		<u>0</u>							<u>GH</u>	
2oz Cr*									<u>2.5</u>	
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz (300) 16oz									<u>KIL</u>	
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										
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: _____
 Sample Numbering Completed By: CAS Date/Time: 8/11/22 10:15
 A = Actual / C = Corrected



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

Reported: 08/25/2022 17:19
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2218854-01	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: TB-7-080922 Sampled By: BTST		Receive Date: 08/09/2022 18:30 Sampling Date: 08/09/2022 07:00 Sample Depth: --- Lab Matrix: Water Sample Type: Trip Blank Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-7 Matrix: WG Sample QC Type (SACode): CS Cooler ID:	
2218854-02	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW-11-4 Sampled By: BTST		Receive Date: 08/09/2022 18:30 Sampling Date: 08/09/2022 07:40 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-11-4 Matrix: WG Sample QC Type (SACode): CS Cooler ID:	
2218854-03	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW-11-3 Sampled By: BTST		Receive Date: 08/09/2022 18:30 Sampling Date: 08/09/2022 08:10 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-11-3 Matrix: WG Sample QC Type (SACode): CS Cooler ID:	

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

Reported: 08/25/2022 17:19
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
2218854-04	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW-11-2 Sampled By: BTST	Receive Date: 08/09/2022 18:30 Sampling Date: 08/09/2022 09:25 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-11-2 Matrix: WG Sample QC Type (SACode): CS Cooler ID:	
2218854-05	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW-11-1 Sampled By: BTST	Receive Date: 08/09/2022 18:30 Sampling Date: 08/09/2022 10:05 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-11-1 Matrix: WG Sample QC Type (SACode): CS Cooler ID:	
2218854-06	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW-21-5 Sampled By: BTST	Receive Date: 08/09/2022 18:30 Sampling Date: 08/09/2022 11:10 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-21-5 Matrix: WG Sample QC Type (SACode): CS Cooler ID:	

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Reported: 08/25/2022 17:19
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information					
2218854-07	COC Number:	---	Receive Date:	08/09/2022 18:30		
	Project Number:	JPL GW	Sampling Date:	08/09/2022 11:45		
	Sampling Location:	---	Sample Depth:	---		
	Sampling Point:	MW-21-4	Lab Matrix:	Water		
	Sampled By:	BTST	Sample Type:	Groundwater		
	Delivery Work Order:					
	Global ID: 0000000000					
	Location ID (FieldPoint): MW-21-4					
	Matrix: WG					
	Sample QC Type (SACode): CS					
Cooler ID:						
2218854-08	COC Number:	---	Receive Date:	08/09/2022 18:30		
	Project Number:	JPL GW	Sampling Date:	08/09/2022 12:00		
	Sampling Location:	---	Sample Depth:	---		
	Sampling Point:	DUP-6-3Q22	Lab Matrix:	Water		
	Sampled By:	BTST	Sample Type:	Groundwater		
	Delivery Work Order:					
	Global ID: 0000000000					
	Location ID (FieldPoint): DUP-6-3Q22					
	Matrix: WG					
	Sample QC Type (SACode): CS					
Cooler ID:						
2218854-09	COC Number:	---	Receive Date:	08/09/2022 18:30		
	Project Number:	JPL GW	Sampling Date:	08/09/2022 12:35		
	Sampling Location:	---	Sample Depth:	---		
	Sampling Point:	MW-21-3	Lab Matrix:	Water		
	Sampled By:	BTST	Sample Type:	Groundwater		
	Delivery Work Order:					
	Global ID: 0000000000					
	Location ID (FieldPoint): MW-21-3					
	Matrix: WG					
	Sample QC Type (SACode): CS					
Cooler ID:						

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Reported: 08/25/2022 17:19
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
2218854-10	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW-21-2 Sampled By: BTST		Receive Date: 08/09/2022 18:30 Sampling Date: 08/09/2022 13:15 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-21-2 Matrix: WG Sample QC Type (SACode): CS Cooler ID:	
2218854-11	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: EB-2-080922 Sampled By: BTST		Receive Date: 08/09/2022 18:30 Sampling Date: 08/09/2022 13:30 Sample Depth: --- Lab Matrix: Water Sample Type: Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-2-080922 Matrix: WG Sample QC Type (SACode): CS Cooler ID:	

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Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218854-01	Client Sample Name: JPL GW, TB-7-080922, 8/9/2022 7:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218854-01		Client Sample Name: JPL GW, TB-7-080922, 8/9/2022 7:00:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218854-01	Client Sample Name: JPL GW, TB-7-080922, 8/9/2022 7:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	97.9	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/12/22 10:04	08/12/22 18:11	MGC	MS-V5	1	B146534	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218854-01	Client Sample Name: JPL GW, TB-7-080922, 8/9/2022 7:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/12/22 10:04	08/12/22	18:11	MGC	MS-V5	1	B146534	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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 Powell, OH 43065

Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218854-02		Client Sample Name: JPL GW, MW-11-4, 8/9/2022 7:40:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218854-02	Client Sample Name:	JPL GW, MW-11-4, 8/9/2022 7:40:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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	0.15	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	0.57	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
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Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218854-02	Client Sample Name: JPL GW, MW-11-4, 8/9/2022 7:40:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	96.3	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/12/22 10:04	08/12/22 18:35	MGC	MS-V5	1	B146534	EPA 524.2

DCN = Data Continuation Number

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Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218854-02	Client Sample Name: JPL GW, MW-11-4, 8/9/2022 7:40:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/12/22 10:04	08/12/22	18:35	MGC	MS-V5	1	B146534	EPA 524.2

DCN = Data Continuation Number



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Reported: 08/25/2022 17:19
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218854-02	Client Sample Name: JPL GW, MW-11-4, 8/9/2022 7:40:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/22/22 11:00	08/22/22 17:16	KB1	IC6	1	B147266	No Prep

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Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218854-03	Client Sample Name: JPL GW, MW-11-3, 8/9/2022 8:10:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218854-03	Client Sample Name:	JPL GW, MW-11-3, 8/9/2022 8:10:00AM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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	0.15	ug/L	0.50	0.15	EPA-524.2	ND	J	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	0.30	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	0.46	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	0.18	ug/L	0.50	0.17	EPA-524.2	ND	J	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	0.50	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: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218854-03	Client Sample Name: JPL GW, MW-11-3, 8/9/2022 8:10:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	95.3	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/12/22 10:04	08/12/22 15:47	MGC	MS-V5	1	B146534	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218854-03	Client Sample Name: JPL GW, MW-11-3, 8/9/2022 8:10:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/12/22 10:04	08/12/22	15:47	MGC	MS-V5	1	B146534	EPA 524.2

DCN = Data Continuation Number

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Reported: 08/25/2022 17:19
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218854-03	Client Sample Name: JPL GW, MW-11-3, 8/9/2022 8:10:00AM
----------------------------------	--

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

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/22/22 11:00	08/22/22 17:32	KB1	IC6	1	B147266	No Prep

DCN = Data Continuation Number

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Reported: 08/25/2022 17:19
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218854-03	Client Sample Name: JPL GW, MW-11-3, 8/9/2022 8:10:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00016	mg/L	0.00020	0.000020	EPA-218.6	0.00010	J	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	0.54		2

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/15/22 09:00	08/15/22 11:45		SAV	IC-4	1	B146735	No Prep
2	EPA-200.8	08/12/22 21:05	08/22/22 21:58		KHS	PE-EL4	1	B146587	EPA 200.2

DCN = Data Continuation Number

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Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218854-04	Client Sample Name: JPL GW, MW-11-2, 8/9/2022 9:25:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218854-04		Client Sample Name: JPL GW, MW-11-2, 8/9/2022 9:25:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc. - Powell
 3761 Attucks Drive
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Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218854-04	Client Sample Name: JPL GW, MW-11-2, 8/9/2022 9:25:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	97.9	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/12/22 10:04	08/12/22 18:59	MGC	MS-V5	1	B146534	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218854-04	Client Sample Name: JPL GW, MW-11-2, 8/9/2022 9:25:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/12/22 10:04	08/12/22	18:59	MGC	MS-V5	1	B146534	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/25/2022 17:19
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218854-04	Client Sample Name: JPL GW, MW-11-2, 8/9/2022 9:25:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC	
		Prep Date	Time	Date/Time	Time				Batch ID	Prep Method
1	EPA-314.0	08/22/22	11:00	08/22/22	17:47	KB1	IC6	1	B147266	No Prep

DCN = Data Continuation Number

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Reported: 08/25/2022 17:19
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218854-04	Client Sample Name: JPL GW, MW-11-2, 8/9/2022 9:25:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00016	mg/L	0.00020	0.000020	EPA-218.6	0.00010	J	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	0.54		2

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/15/22 09:00	08/15/22 12:23		SAV	IC-4	1	B146735	No Prep
2	EPA-200.8	08/12/22 21:05	08/22/22 22:00		KHS	PE-EL4	1	B146587	EPA 200.2

DCN = Data Continuation Number

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Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218854-05	Client Sample Name:	JPL GW, MW-11-1, 8/9/2022 10:05:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218854-05	Client Sample Name: JPL GW, MW-11-1, 8/9/2022 10:05:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218854-05	Client Sample Name: JPL GW, MW-11-1, 8/9/2022 10:05:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	96.0	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/12/22 10:04	08/12/22 19:23	MGC	MS-V5	1	B146534	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218854-05	Client Sample Name: JPL GW, MW-11-1, 8/9/2022 10:05:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/12/22 10:04	08/12/22	19:23	MGC	MS-V5	1	B146534	EPA 524.2

DCN = Data Continuation Number



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

Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218854-05	Client Sample Name: JPL GW, MW-11-1, 8/9/2022 10:05:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Chloride	22	mg/L	0.50	0.13	EPA-300.0	0.14		1
Nitrate as N	0.40	mg/L	0.10	0.024	EPA-300.0	ND		1
Sulfate	46	mg/L	1.0	0.14	EPA-300.0	0.21		1
Nitrite as N	0.026	mg/L	0.050	0.010	EPA-353.2	ND	J	2
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		3
ortho-Phosphate as P	0.026	mg/L	0.050	0.017	EPA-365.1	ND	J	4

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-300.0	08/10/22 23:00	08/10/22	23:46	SAV	IC8	1	B146456	No Prep
2	EPA-353.2	08/11/22 01:00	08/11/22	01:22	KB1	KONE-1	1	B146654	No Prep
3	EPA-314.0	08/22/22 11:00	08/22/22	18:33	KB1	IC6	1	B147266	No Prep
4	EPA-365.1	08/10/22 21:43	08/10/22	21:47	KB1	SC-2	1	B146767	No Prep

DCN = Data Continuation Number

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Reported: 08/25/2022 17:19
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218854-05	Client Sample Name: JPL GW, MW-11-1, 8/9/2022 10:05:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00019	mg/L	0.00020	0.000020	EPA-218.6	0.00010	J	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	0.54		2

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/15/22 09:00	08/15/22 12:33		SAV	IC-4	1	B146735	No Prep
2	EPA-200.8	08/12/22 21:05	08/22/22 22:02		KHS	PE-EL4	1	B146587	EPA 200.2

DCN = Data Continuation Number



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Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218854-06	Client Sample Name: JPL GW, MW-21-5, 8/9/2022 11:10:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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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Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218854-06	Client Sample Name:	JPL GW, MW-21-5, 8/9/2022 11:10:00AM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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	0.71	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: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218854-06	Client Sample Name: JPL GW, MW-21-5, 8/9/2022 11:10:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	95.3	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/12/22 10:04	08/12/22 19:46	MGC	MS-V5	1	B146534	EPA 524.2

DCN = Data Continuation Number



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Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218854-06	Client Sample Name: JPL GW, MW-21-5, 8/9/2022 11:10:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/12/22 10:04	08/12/22	19:46	MGC	MS-V5	1	B146534	EPA 524.2

DCN = Data Continuation Number



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Reported: 08/25/2022 17:19
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218854-06	Client Sample Name: JPL GW, MW-21-5, 8/9/2022 11:10:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	2.4	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-314.0	08/22/22 11:00	08/22/22	18:48	KB1	IC6	1	B147266	No Prep

DCN = Data Continuation Number

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Reported: 08/25/2022 17:19
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218854-06	Client Sample Name: JPL GW, MW-21-5, 8/9/2022 11:10:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.0014	mg/L	0.00020	0.000020	EPA-218.6	0.00010		1
Total Recoverable Chromium	2.3	ug/L	3.0	0.50	EPA-200.8	0.54	J	2

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/15/22 09:00	08/15/22 12:42		SAV	IC-4	1	B146735	No Prep
2	EPA-200.8	08/12/22 21:05	08/22/22 22:04		KHS	PE-EL4	1	B146587	EPA 200.2

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Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218854-07	Client Sample Name:	JPL GW, MW-21-4, 8/9/2022 11:45:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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	4.0	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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Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218854-07	Client Sample Name:	JPL GW, MW-21-4, 8/9/2022 11:45:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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	0.82	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	0.44	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: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218854-07	Client Sample Name: JPL GW, MW-21-4, 8/9/2022 11:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	96.2	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/12/22 10:04	08/12/22 20:10	MGC	MS-V5	1	B146534	EPA 524.2

DCN = Data Continuation Number

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Tidewater Inc. - Powell
 3761 Attucks Drive
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Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218854-07	Client Sample Name: JPL GW, MW-21-4, 8/9/2022 11:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/12/22 10:04	08/12/22	20:10	MGC	MS-V5	1	B146534	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218854-07	Client Sample Name: JPL GW, MW-21-4, 8/9/2022 11:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	3.2	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-314.0	08/22/22 11:00	08/22/22	19:04	KB1	IC6	1	B147266	No Prep

DCN = Data Continuation Number

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Tidewater Inc. - Powell
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Reported: 08/25/2022 17:19
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218854-07	Client Sample Name: JPL GW, MW-21-4, 8/9/2022 11:45:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.0016	mg/L	0.00020	0.000020	EPA-218.6	0.00010		1
Total Recoverable Chromium	1.3	ug/L	3.0	0.50	EPA-200.8	0.54	J	2

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/15/22 09:00	08/15/22	13:11	SAV	IC-4	1	B146735	No Prep
2	EPA-200.8	08/12/22 21:05	08/22/22	22:06	KHS	PE-EL4	1	B146587	EPA 200.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218854-08	Client Sample Name:	JPL GW, DUP-6-3Q22, 8/9/2022 12:00:00PM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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	3.7	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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Tidewater Inc. - Powell
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 Powell, OH 43065

Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218854-08	Client Sample Name:	JPL GW, DUP-6-3Q22, 8/9/2022 12:00:00PM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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	0.64	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	0.42	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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 3761 Attucks Drive
 Powell, OH 43065

Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218854-08	Client Sample Name: JPL GW, DUP-6-3Q22, 8/9/2022 12:00:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	97.0	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/12/22 10:04	08/12/22 20:34	MGC	MS-V5	1	B146534	EPA 524.2

DCN = Data Continuation Number



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

Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218854-08	Client Sample Name: JPL GW, DUP-6-3Q22, 8/9/2022 12:00:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/12/22 10:04	08/12/22	20:34	MGC	MS-V5	1	B146534	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/25/2022 17:19
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218854-08	Client Sample Name: JPL GW, DUP-6-3Q22, 8/9/2022 12:00:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	3.6	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-314.0	08/22/22 11:00	08/22/22	19:19	KB1	IC6	1	B147266	No Prep

DCN = Data Continuation Number

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Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218854-08	Client Sample Name: JPL GW, DUP-6-3Q22, 8/9/2022 12:00:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.0017	mg/L	0.00020	0.000020	EPA-218.6	0.000093		1
Total Recoverable Chromium	0.63	ug/L	3.0	0.50	EPA-200.8	ND	J	2

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/15/22 09:00	08/15/22 14:37		RC1	IC-4	1	B146734	No Prep
2	EPA-200.8	08/15/22 10:30	08/18/22 17:49		KHS	PE-EL4	1	B146648	EPA 200.2

DCN = Data Continuation Number

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Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218854-09	Client Sample Name:	JPL GW, MW-21-3, 8/9/2022 12:35:00PM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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	0.42	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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Tidewater Inc. - Powell
 3761 Attucks Drive
 Powell, OH 43065

Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218854-09	Client Sample Name:	JPL GW, MW-21-3, 8/9/2022 12:35:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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	0.57	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	0.96	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: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218854-09	Client Sample Name: JPL GW, MW-21-3, 8/9/2022 12:35:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	99.3	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/12/22 10:10	08/12/22 21:22	MGC	MS-V5	1	B146535	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218854-09	Client Sample Name: JPL GW, MW-21-3, 8/9/2022 12:35:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/12/22 10:10	08/12/22	21:22	MGC	MS-V5	1	B146535	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/25/2022 17:19
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218854-09	Client Sample Name: JPL GW, MW-21-3, 8/9/2022 12:35:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	3.1	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-314.0	08/22/22 11:00	08/22/22	22:23	KB1	IC6	1	B147267	No Prep

DCN = Data Continuation Number

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Reported: 08/25/2022 17:19
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218854-09	Client Sample Name: JPL GW, MW-21-3, 8/9/2022 12:35:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00046	mg/L	0.00020	0.000020	EPA-218.6	0.000093		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	0.54		2

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/15/22 09:00	08/15/22 15:06		RC1	IC-4	1	B146734	No Prep
2	EPA-200.8	08/12/22 21:05	08/22/22 21:37		KHS	PE-EL4	1	B146587	EPA 200.2

DCN = Data Continuation Number

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Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218854-10	Client Sample Name:	JPL GW, MW-21-2, 8/9/2022 1:15:00PM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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	0.19	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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 3761 Attucks Drive
 Powell, OH 43065

Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2218854-10	Client Sample Name:	JPL GW, MW-21-2, 8/9/2022 1:15:00PM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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	0.33	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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 3761 Attucks Drive
 Powell, OH 43065

Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218854-10	Client Sample Name: JPL GW, MW-21-2, 8/9/2022 1:15:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	97.7	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	95.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/12/22 10:04	08/12/22 21:46	MGC	MS-V5	1	B146534	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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 Powell, OH 43065

Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218854-10	Client Sample Name: JPL GW, MW-21-2, 8/9/2022 1:15:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/12/22 10:04	08/12/22	21:46	MGC	MS-V5	1	B146534	EPA 524.2

DCN = Data Continuation Number



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

Reported: 08/25/2022 17:19
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218854-10	Client Sample Name: JPL GW, MW-21-2, 8/9/2022 1:15:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	1.4	ug/L	2.0	0.81	EPA-314.0	ND	J	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/22/22 11:00	08/22/22 19:34	KB1	IC6	1	B147266	No Prep

DCN = Data Continuation Number

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Tidewater Inc. - Powell
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Reported: 08/25/2022 17:19
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218854-10	Client Sample Name: JPL GW, MW-21-2, 8/9/2022 1:15:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00020	mg/L	0.00020	0.000020	EPA-218.6	0.000093		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	0.54		2

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/15/22 09:00	08/15/22 15:45		KB1	IC-4	1	B146734	No Prep
2	EPA-200.8	08/12/22 21:05	08/22/22 22:08		KHS	PE-EL4	1	B146587	EPA 200.2

DCN = Data Continuation Number



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Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218854-11 **Client Sample Name:** JPL GW, EB-2-080922, 8/9/2022 1:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218854-11 **Client Sample Name:** JPL GW, EB-2-080922, 8/9/2022 1:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2218854-11 **Client Sample Name:** JPL GW, EB-2-080922, 8/9/2022 1:30:00PM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	93.5	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	95.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/12/22 10:04	08/12/22 22:10	MGC	MS-V5	1	B146534	EPA 524.2

DCN = Data Continuation Number

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Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2218854-11	Client Sample Name: JPL GW, EB-2-080922, 8/9/2022 1:30:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/12/22 10:04	08/12/22	22:10	MGC	MS-V5	1	B146534	EPA 524.2

DCN = Data Continuation Number



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Reported: 08/25/2022 17:19
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2218854-11	Client Sample Name: JPL GW, EB-2-080922, 8/9/2022 1:30:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC	
									Batch ID	Prep Method
1	EPA-314.0	08/22/22	11:00	08/22/22	19:50	KB1	IC6	1	B147266	No Prep

DCN = Data Continuation Number

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Reported: 08/25/2022 17:19
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2218854-11	Client Sample Name: JPL GW, EB-2-080922, 8/9/2022 1:30:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00018	mg/L	0.00020	0.000020	EPA-218.6	0.000093	J	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	0.54		2

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/15/22 09:00	08/15/22	15:54	KB1	IC-4	1	B146734	No Prep
2	EPA-200.8	08/12/22 21:05	08/22/22	22:10	KHS	PE-EL4	1	B146587	EPA 200.2

DCN = Data Continuation Number



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Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146534						
Benzene	B146534-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B146534-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B146534-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B146534-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B146534-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B146534-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B146534-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B146534-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B146534-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B146534-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B146534-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B146534-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B146534-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B146534-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B146534-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B146534-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B146534-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B146534-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B146534-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B146534-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B146534-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B146534-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B146534-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B146534-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B146534-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B146534-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B146534-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B146534-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B146534-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B146534-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B146534-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B146534-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B146534-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B146534-BLK1	ND	ug/L	0.50	0.14	

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Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146534						
trans-1,3-Dichloropropene	B146534-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B146534-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B146534-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B146534-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B146534-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B146534-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B146534-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B146534-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B146534-BLK1	ND	ug/L	0.50	0.12	
Styrene	B146534-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B146534-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2,2-Tetrachloroethane	B146534-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B146534-BLK1	ND	ug/L	0.50	0.23	
Toluene	B146534-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B146534-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B146534-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B146534-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B146534-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B146534-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B146534-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B146534-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B146534-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B146534-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B146534-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B146534-BLK1	ND	ug/L	0.50	0.18	
Acetone	B146534-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B146534-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B146534-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B146534-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B146534-BLK1	ND	ug/L	2.0	2.0	
Carbon disulfide	B146534-BLK1	ND	ug/L	0.50	0.48	
trans-1,4-Dichloro-2-butene	B146534-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B146534-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B146534-BLK1	ND	ug/L	4.0	1.3	

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Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146534						
Ethyl t-butyl ether	B146534-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B146534-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B146534-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B146534-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B146534-BLK1	ND	ug/L	5.0	3.3	
Methyl iodide	B146534-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B146534-BLK1	ND	ug/L	5.0	2.4	
Methyl methacrylate	B146534-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B146534-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B146534-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B146534-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B146534-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B146534-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B146534-BLK1	90.7	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B146534-BLK1	97.0	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B146534-BLK1	92.4	%	80 - 120 (LCL - UCL)		
QC Batch ID: B146535						
Benzene	B146535-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B146535-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B146535-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B146535-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B146535-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B146535-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B146535-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B146535-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B146535-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B146535-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B146535-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B146535-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B146535-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B146535-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B146535-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B146535-BLK1	ND	ug/L	0.50	0.093	

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Tidewater Inc. - Powell
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Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146535						
Dibromochloromethane	B146535-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B146535-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B146535-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B146535-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B146535-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B146535-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B146535-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B146535-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B146535-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B146535-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B146535-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B146535-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B146535-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B146535-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B146535-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B146535-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B146535-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B146535-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	B146535-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B146535-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B146535-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B146535-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B146535-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B146535-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B146535-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B146535-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B146535-BLK1	ND	ug/L	0.50	0.12	
Styrene	B146535-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B146535-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2,2-Tetrachloroethane	B146535-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B146535-BLK1	ND	ug/L	0.50	0.23	
Toluene	B146535-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B146535-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B146535-BLK1	ND	ug/L	0.50	0.15	

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 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146535						
1,1,1-Trichloroethane	B146535-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B146535-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B146535-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B146535-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B146535-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B146535-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B146535-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B146535-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B146535-BLK1	ND	ug/L	0.50	0.18	
Acetone	B146535-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B146535-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B146535-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B146535-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B146535-BLK1	ND	ug/L	2.0	2.0	
Carbon disulfide	B146535-BLK1	ND	ug/L	0.50	0.48	
trans-1,4-Dichloro-2-butene	B146535-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B146535-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B146535-BLK1	ND	ug/L	4.0	1.3	
Ethyl t-butyl ether	B146535-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B146535-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B146535-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B146535-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B146535-BLK1	ND	ug/L	5.0	3.3	
Methyl iodide	B146535-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B146535-BLK1	ND	ug/L	5.0	2.4	
Methyl methacrylate	B146535-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B146535-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B146535-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B146535-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B146535-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B146535-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B146535-BLK1	98.4	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B146535-BLK1	97.8	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B146535-BLK1	94.8	%	80 - 120 (LCL - UCL)		

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Reported: 08/25/2022 17:19
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 Project Number: 3Q22
 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: B146534										
Benzene	B146534-BS1	LCS	23.170	25.000	ug/L	92.7		70 - 130		
Bromodichloromethane	B146534-BS1	LCS	24.790	25.000	ug/L	99.2		70 - 130		
Chlorobenzene	B146534-BS1	LCS	23.940	25.000	ug/L	95.8		70 - 130		
Chloroethane	B146534-BS1	LCS	25.400	25.000	ug/L	102		70 - 130		
1,4-Dichlorobenzene	B146534-BS1	LCS	25.490	25.000	ug/L	102		70 - 130		
1,1-Dichloroethane	B146534-BS1	LCS	22.430	25.000	ug/L	89.7		70 - 130		
1,1-Dichloroethene	B146534-BS1	LCS	23.600	25.000	ug/L	94.4		70 - 130		
Toluene	B146534-BS1	LCS	23.250	25.000	ug/L	93.0		70 - 130		
Trichloroethene	B146534-BS1	LCS	23.380	25.000	ug/L	93.5		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B146534-BS1	LCS	9.6300	10.000	ug/L	96.3		75 - 125		
Toluene-d8 (Surrogate)	B146534-BS1	LCS	9.8100	10.000	ug/L	98.1		80 - 120		
4-Bromofluorobenzene (Surrogate)	B146534-BS1	LCS	9.8800	10.000	ug/L	98.8		80 - 120		
QC Batch ID: B146535										
Benzene	B146535-BS1	LCS	23.710	25.000	ug/L	94.8		70 - 130		
Bromodichloromethane	B146535-BS1	LCS	25.040	25.000	ug/L	100		70 - 130		
Chlorobenzene	B146535-BS1	LCS	23.610	25.000	ug/L	94.4		70 - 130		
Chloroethane	B146535-BS1	LCS	25.750	25.000	ug/L	103		70 - 130		
1,4-Dichlorobenzene	B146535-BS1	LCS	25.400	25.000	ug/L	102		70 - 130		
1,1-Dichloroethane	B146535-BS1	LCS	23.230	25.000	ug/L	92.9		70 - 130		
1,1-Dichloroethene	B146535-BS1	LCS	24.050	25.000	ug/L	96.2		70 - 130		
Toluene	B146535-BS1	LCS	23.460	25.000	ug/L	93.8		70 - 130		
Trichloroethene	B146535-BS1	LCS	24.600	25.000	ug/L	98.4		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B146535-BS1	LCS	10.130	10.000	ug/L	101		75 - 125		
Toluene-d8 (Surrogate)	B146535-BS1	LCS	9.9300	10.000	ug/L	99.3		80 - 120		
4-Bromofluorobenzene (Surrogate)	B146535-BS1	LCS	9.8200	10.000	ug/L	98.2		80 - 120		

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Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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 Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: B146534		Used client sample: Y - Description: MW-11-3, 08/09/2022 08:10									
Benzene	MS	2218854-03	ND	23.030	25.000	ug/L		92.1		70 - 130	
	MSD	2218854-03	ND	22.980	25.000	ug/L	0.2	91.9	20	70 - 130	
Bromodichloromethane	MS	2218854-03	ND	25.260	25.000	ug/L		101		70 - 130	
	MSD	2218854-03	ND	26.160	25.000	ug/L	3.5	105	20	70 - 130	
Chlorobenzene	MS	2218854-03	ND	24.170	25.000	ug/L		96.7		70 - 130	
	MSD	2218854-03	ND	23.880	25.000	ug/L	1.2	95.5	20	70 - 130	
Chloroethane	MS	2218854-03	ND	25.300	25.000	ug/L		101		70 - 130	
	MSD	2218854-03	ND	25.530	25.000	ug/L	0.9	102	20	70 - 130	
1,4-Dichlorobenzene	MS	2218854-03	ND	25.580	25.000	ug/L		102		70 - 130	
	MSD	2218854-03	ND	25.870	25.000	ug/L	1.1	103	20	70 - 130	
1,1-Dichloroethane	MS	2218854-03	ND	22.930	25.000	ug/L		91.7		70 - 130	
	MSD	2218854-03	ND	23.130	25.000	ug/L	0.9	92.5	20	70 - 130	
1,1-Dichloroethene	MS	2218854-03	ND	23.980	25.000	ug/L		95.9		70 - 130	
	MSD	2218854-03	ND	24.380	25.000	ug/L	1.7	97.5	20	70 - 130	
Toluene	MS	2218854-03	0.18000	23.710	25.000	ug/L		94.1		70 - 130	
	MSD	2218854-03	0.18000	24.300	25.000	ug/L	2.5	96.5	20	70 - 130	
Trichloroethene	MS	2218854-03	ND	23.690	25.000	ug/L		94.8		70 - 130	
	MSD	2218854-03	ND	23.810	25.000	ug/L	0.5	95.2	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	2218854-03	ND	9.5500	10.000	ug/L		95.5		75 - 125	
	MSD	2218854-03	ND	9.4700	10.000	ug/L	0.8	94.7		75 - 125	
Toluene-d8 (Surrogate)	MS	2218854-03	ND	9.9900	10.000	ug/L		99.9		80 - 120	
	MSD	2218854-03	ND	9.8700	10.000	ug/L	1.2	98.7		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	2218854-03	ND	9.9900	10.000	ug/L		99.9		80 - 120	
	MSD	2218854-03	ND	10.010	10.000	ug/L	0.2	100		80 - 120	
QC Batch ID: B146535		Used client sample: Y - Description: MW-21-3, 08/09/2022 12:35									
Benzene	MS	2218854-09	ND	23.550	25.000	ug/L		94.2		70 - 130	
	MSD	2218854-09	ND	23.570	25.000	ug/L	0.1	94.3	20	70 - 130	
Bromodichloromethane	MS	2218854-09	ND	25.810	25.000	ug/L		103		70 - 130	
	MSD	2218854-09	ND	25.830	25.000	ug/L	0.1	103	20	70 - 130	
Chlorobenzene	MS	2218854-09	ND	24.730	25.000	ug/L		98.9		70 - 130	
	MSD	2218854-09	ND	24.120	25.000	ug/L	2.5	96.5	20	70 - 130	
Chloroethane	MS	2218854-09	ND	25.960	25.000	ug/L		104		70 - 130	
	MSD	2218854-09	ND	25.470	25.000	ug/L	1.9	102	20	70 - 130	
1,4-Dichlorobenzene	MS	2218854-09	ND	26.110	25.000	ug/L		104		70 - 130	
	MSD	2218854-09	ND	26.390	25.000	ug/L	1.1	106	20	70 - 130	
1,1-Dichloroethane	MS	2218854-09	ND	23.770	25.000	ug/L		95.1		70 - 130	
	MSD	2218854-09	ND	23.740	25.000	ug/L	0.1	95.0	20	70 - 130	

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Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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 Recovery	Control Limits		Lab
									RPD	Percent Recovery	
QC Batch ID: B146535		Used client sample: Y - Description: MW-21-3, 08/09/2022 12:35									
1,1-Dichloroethene	MS	2218854-09	ND	24.320	25.000	ug/L		97.3		70 - 130	
	MSD	2218854-09	ND	24.390	25.000	ug/L	0.3	97.6	20	70 - 130	
Toluene	MS	2218854-09	ND	23.850	25.000	ug/L		95.4		70 - 130	
	MSD	2218854-09	ND	23.730	25.000	ug/L	0.5	94.9	20	70 - 130	
Trichloroethene	MS	2218854-09	0.96000	24.260	25.000	ug/L		93.2		70 - 130	
	MSD	2218854-09	0.96000	24.250	25.000	ug/L	0.0	93.2	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	2218854-09	ND	9.6000	10.000	ug/L		96.0		75 - 125	
	MSD	2218854-09	ND	9.6800	10.000	ug/L	0.8	96.8		75 - 125	
Toluene-d8 (Surrogate)	MS	2218854-09	ND	9.8500	10.000	ug/L		98.5		80 - 120	
	MSD	2218854-09	ND	9.8400	10.000	ug/L	0.1	98.4		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	2218854-09	ND	10.120	10.000	ug/L		101		80 - 120	
	MSD	2218854-09	ND	10.020	10.000	ug/L	1.0	100		80 - 120	

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 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B146534						
Nitrobenzene	B146534-BLK1	0	ug/L			
Methyl acrylate	B146534-BLK1	0	ug/L			
Chloroacetonitrile	B146534-BLK1	0	ug/L			
2-Nitropropane	B146534-BLK1	0	ug/L			
1-Chlorobutane	B146534-BLK1	0	ug/L			
1,1-Dichloropropanone	B146534-BLK1	0	ug/L			
QC Batch ID: B146535						
Nitrobenzene	B146535-BLK1	0	ug/L			
Methyl acrylate	B146535-BLK1	0	ug/L			
Chloroacetonitrile	B146535-BLK1	0	ug/L			
2-Nitropropane	B146535-BLK1	0	ug/L			
1-Chlorobutane	B146535-BLK1	0	ug/L			
1,1-Dichloropropanone	B146535-BLK1	0	ug/L			

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Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B146456						
Chloride	B146456-BLK1	0.14000	mg/L	0.50	0.13	J
Nitrate as N	B146456-BLK1	ND	mg/L	0.10	0.024	
Sulfate	B146456-BLK1	0.20700	mg/L	1.0	0.14	J
QC Batch ID: B146654						
Nitrite as N	B146654-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: B146767						
ortho-Phosphate as P	B146767-BLK1	ND	mg/L	0.050	0.017	
QC Batch ID: B147266						
Perchlorate	B147266-BLK1	ND	ug/L	2.0	0.81	
QC Batch ID: B147267						
Perchlorate	B147267-BLK1	ND	ug/L	2.0	0.81	

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

Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146456										
Chloride	B146456-BS1	LCS	51.655	50.000	mg/L	103		90 - 110		
Nitrate as N	B146456-BS1	LCS	5.0200	5.0000	mg/L	100		90 - 110		
Sulfate	B146456-BS1	LCS	102.04	100.00	mg/L	102		90 - 110		
QC Batch ID: B146654										
Nitrite as N	B146654-BS1	LCS	0.49007	0.50000	mg/L	98.0		90 - 110		
QC Batch ID: B146767										
ortho-Phosphate as P	B146767-BS1	LCS	0.51610	0.50000	mg/L	103		90 - 110		
QC Batch ID: B147266										
Perchlorate	B147266-BS1	LCS	11.330	10.000	ug/L	113		85 - 115		
	B147266-BSD1	LCSD	10.038	10.000	ug/L	100	12.1	85 - 115	15	
QC Batch ID: B147267										
Perchlorate	B147267-BS1	LCS	9.9279	10.000	ug/L	99.3		85 - 115		
	B147267-BSD1	LCSD	9.8890	10.000	ug/L	98.9	0.4	85 - 115	15	

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 3761 Attucks Drive
 Powell, OH 43065

Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146456		Used client sample: Y - Description: MW-11-1, 08/09/2022 10:05									
Chloride	DUP	2218854-05	22.128	22.296		mg/L	0.8		10		
	MS	2218854-05	22.128	80.651	50.505	mg/L		116		80 - 120	
	MSD	2218854-05	22.128	81.118	50.505	mg/L	0.6	117	10	80 - 120	
Nitrate as N	DUP	2218854-05	0.39800	0.40700		mg/L	2.2		10		
	MS	2218854-05	0.39800	6.0182	5.0505	mg/L		111		80 - 120	
	MSD	2218854-05	0.39800	6.0071	5.0505	mg/L	0.2	111	10	80 - 120	
Sulfate	DUP	2218854-05	46.204	46.837		mg/L	1.4		10		
	MS	2218854-05	46.204	162.53	101.01	mg/L		115		80 - 120	
	MSD	2218854-05	46.204	162.70	101.01	mg/L	0.1	115	10	80 - 120	
QC Batch ID: B146654		Used client sample: N									
Nitrite as N	DUP	2218808-01	ND	ND		mg/L			10		
	MS	2218808-01	ND	0.52263	0.50000	mg/L		105		90 - 110	
	MSD	2218808-01	ND	0.52539	0.50000	mg/L	0.5	105	10	90 - 110	
QC Batch ID: B146767		Used client sample: Y - Description: MW-11-1, 08/09/2022 10:05									
ortho-Phosphate as P	DUP	2218854-05	0.026200	0.025600		mg/L	2.3		10		J
	MS	2218854-05	0.026200	0.57789	0.52632	mg/L		105		90 - 110	
	MSD	2218854-05	0.026200	0.57789	0.52632	mg/L	0	105	10	90 - 110	
QC Batch ID: B147266		Used client sample: N									
Perchlorate	DUP	2218698-05	2.2842	2.2007		ug/L	3.7		15		
	MS	2218698-05	2.2842	11.903	10.101	ug/L		95.2		80 - 120	
	MSD	2218698-05	2.2842	11.812	10.101	ug/L	0.8	94.3	15	80 - 120	
QC Batch ID: B147267		Used client sample: Y - Description: MW-21-3, 08/09/2022 12:35									
Perchlorate	DUP	2218854-09	3.1235	3.1248		ug/L	0.0		15		
	MS	2218854-09	3.1235	11.787	10.101	ug/L		85.8		80 - 120	
	MSD	2218854-09	3.1235	11.959	10.101	ug/L	1.4	87.5	15	80 - 120	

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 Powell, OH 43065

Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146587						
Total Recoverable Chromium	B146587-BLK1	0.53800	ug/L	3.0	0.50	J
QC Batch ID: B146648						
Total Recoverable Chromium	B146648-BLK1	ND	ug/L	3.0	0.50	
QC Batch ID: B146734						
Hexavalent Chromium	B146734-BLK1	0.000093000	mg/L	0.00020	0.000020	J
QC Batch ID: B146735						
Hexavalent Chromium	B146735-BLK1	0.00010100	mg/L	0.00020	0.000020	J,M02

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 Powell, OH 43065

Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146587										
Total Recoverable Chromium	B146587-BS1	LCS	42.728	40.000	ug/L	107		85 - 115		
QC Batch ID: B146648										
Total Recoverable Chromium	B146648-BS1	LCS	39.951	40.000	ug/L	99.9		85 - 115		
QC Batch ID: B146734										
Hexavalent Chromium	B146734-BS1	LCS	0.020018	0.020000	mg/L	100		90 - 110		
	B146734-BSD1	LCSD	0.019832	0.020000	mg/L	99.2	0.9	90 - 110	10	
QC Batch ID: B146735										
Hexavalent Chromium	B146735-BS1	LCS	0.019816	0.020000	mg/L	99.1		90 - 110		
	B146735-BSD1	LCSD	0.019925	0.020000	mg/L	99.6	0.5	90 - 110	10	

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 3761 Attucks Drive
 Powell, OH 43065

Reported: 08/25/2022 17:19
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Source Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab
									RPD	Percent Recovery	
QC Batch ID: B146587		Used client sample: Y - Description: MW-21-3, 08/09/2022 12:35									
Total Recoverable Chromium	DUP	2218854-09	ND	0.78100		ug/L			20		J
	MS	2218854-09	ND	42.673	40.000	ug/L		107		70 - 130	
	MSD	2218854-09	ND	41.843	40.000	ug/L	2.0	105	20	70 - 130	
QC Batch ID: B146648		Used client sample: N									
Total Recoverable Chromium	DUP	2218938-01	0.50500	ND		ug/L			20		
	MS	2218938-01	0.50500	39.506	40.000	ug/L		97.5		70 - 130	
	MSD	2218938-01	0.50500	41.460	40.000	ug/L	4.8	102	20	70 - 130	
QC Batch ID: B146734		Used client sample: Y - Description: MW-21-3, 08/09/2022 12:35									
Hexavalent Chromium	DUP	2218854-09	0.00046000	0.00048100		mg/L	4.5		10		
	MS	2218854-09	0.00046000	0.020572	0.020202	mg/L		99.6		90 - 110	
	MSD	2218854-09	0.00046000	0.020635	0.020202	mg/L	0.3	99.9	10	90 - 110	
QC Batch ID: B146735		Used client sample: Y - Description: MW-11-3, 08/09/2022 08:10									
Hexavalent Chromium	DUP	2218854-03	0.00016300	0.00016400		mg/L	0.6		10		J
	MS	2218854-03	0.00016300	0.020021	0.020202	mg/L		98.3		90 - 110	
	MSD	2218854-03	0.00016300	0.019933	0.020202	mg/L	0.4	97.9	10	90 - 110	

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

Reported: 08/25/2022 17:19
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- M02 Analyte detected in the Method Blank at a level between the PQL and $> 1/2$ the PQL.
- V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.



Date of Report: 08/25/2022

David Conner

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

Client Project: 3Q22
BCL Project: JPL- GW Monitoring Wells-CLP
BCL Work Order: 2219070
Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 8/11/2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Natalie Serda".

Contact Person: Natalie Serda
Client Service Rep

A handwritten signature in black ink that reads "Stuart Buttram".

Stuart Buttram
Operations Manager

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

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2219070-01 - MW-15

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BC Laboratories, Inc. Chain of Custody Form

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<p>Report To: Tidewater, Inc. Client: Tidewater Attn: David Conner Street Address: 3781 Attucks Drive City: Powell State: OH Zip: 43065 Phone: (628) 298-5715 Fax: (614) 792-2897 Email Address: david.conner@tideh2o.net Submission #: 22-19070</p>	<p>Project Description: JPL-GW Monitoring Project Code: 3Q22 Sampler (s): Blaine Tech</p>	<p>Analysis Requested</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr><td>Orthophosphate 365.1</td><td></td></tr> <tr><td>Cl, NO3, NO2, SO4</td><td></td></tr> <tr><td>Hexavalent Cr6-218.6 (mg/L)</td><td></td></tr> <tr><td>Perchlorate</td><td></td></tr> <tr><td>TRM-C</td><td>X</td></tr> <tr><td>VOCs EPA 524.2</td><td></td></tr> </table>	Orthophosphate 365.1		Cl, NO3, NO2, SO4		Hexavalent Cr6-218.6 (mg/L)		Perchlorate		TRM-C	X	VOCs EPA 524.2		<p>Billing</p> <p>Client: Tidewater Attn: David Conner Address: 3781 Attucks 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 <small>*Standard Turnaround = 10</small></p>	<p>Notes</p> <p><i>Laboratory please select ASDs for Level IV Validation</i></p>
Orthophosphate 365.1																
Cl, NO3, NO2, SO4																
Hexavalent Cr6-218.6 (mg/L)																
Perchlorate																
TRM-C	X															
VOCs EPA 524.2																
<p>Sample #</p> <p>1 MW-15</p>	<p>Date</p> <p>08/11/22 10:25 W</p>	<p>Time</p> <p>10:25</p>	<p>Matrix*</p> <p>W</p>	<p>Matrix Types: S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other</p>												
<p>Turnaround # of working days: <input type="checkbox"/> 24 Hr Rush <input type="checkbox"/> 48 Hr Rush <input type="checkbox"/> 3-5 Day Rush <input checked="" type="checkbox"/> Normal (10 - Days)</p>		<p>Lab TAT Approval: _____ *Additional Charges May Apply</p>														
<p>Comments:</p> <p>PLEASE NOTATE WHICH SAMPLES TO USE FOR GC (MS/MSD) 90% Level III and 10% Level IV data validation required: Level IV Nuisance on C of C NOTE: ALL ANALYSIS REQUIRED TO HAVE CALIBRATION SUMMARIES (Inform GC)</p>		<p>Cost Center:</p> <p>1. Relinquished By: _____ Date: 08/11/22 Time: 11:55 2. Relinquished By: _____ Date: 8/11/22 Time: 7:17 3. Relinquished By: _____ Date: 8/11/22 Time: 19:17</p>														

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

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page 1 Of 1	
Submission #: <u>2219070</u>					
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace 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 checked="" type="checkbox"/> (W) / S
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals: Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Comments: _____					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <u>0.97</u> Container: <u>PE</u> Thermometer ID: <u>274</u> Temperature: (A) <u>1.7</u> °C / (C) <u>1.8</u> °C		Date/Time <u>8/11/22</u> 1917 Analyst Init <u>PRE</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ³⁺	A									
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz (8oz / 16oz)	B									
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										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608 J8051A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 511.1										
8oz EPA 548.1										
QT EPA 519.2										
QT EPA 8015M										
QT EPA 8270C										
3oz / 16oz / 32oz AMBER										
3oz / 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: 8/11/22 7:06 (Rev 23 06/20/22)
 A = Actual / C = Corrected



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

Reported: 08/25/2022 14:13
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2219070-01	COC Number:	---	Receive Date:	08/11/2022 19:17
	Project Number:	JPL GW	Sampling Date:	08/11/2022 10:25
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	MW-15	Lab Matrix:	Water
	Sampled By:	BTST	Sample Type:	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-15	
			Matrix: WG	
			Sample QC Type (SACode): CS	
		Cooler ID:		

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Reported: 08/25/2022 14:13
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2219070-01	Client Sample Name: JPL GW, MW-15, 8/11/2022 10:25:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00089	mg/L	0.00020	0.000020	EPA-218.6	0.000091		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/16/22 23:00	08/18/22 23:34		KB1	IC-4	1	B147117	No Prep
2	EPA-200.8	08/16/22 17:50	08/22/22 20:18		KHS	PE-EL4	1	B146842	EPA 200.2

DCN = Data Continuation Number

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Reported: 08/25/2022 14:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146842						
Total Recoverable Chromium	B146842-BLK1	ND	ug/L	3.0	0.50	
QC Batch ID: B147117						
Hexavalent Chromium	B147117-BLK1	0.000091000	mg/L	0.00020	0.000020	J

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Reported: 08/25/2022 14:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146842										
Total Recoverable Chromium	B146842-BS1	LCS	40.973	40.000	ug/L	102		85 - 115		
QC Batch ID: B147117										
Hexavalent Chromium	B147117-BS1	LCS	0.021496	0.020000	mg/L	107		90 - 110		
	B147117-BSD1	LCSD	0.021748	0.020000	mg/L	109	1.2	90 - 110		10

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Reported: 08/25/2022 14:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab
									RPD	Percent Recovery	
QC Batch ID: B146842		Used client sample: N									
Total Recoverable Chromium	DUP	2219079-02	ND	ND		ug/L			20		
	MS	2219079-02	ND	36.243	40.000	ug/L		90.6		70 - 130	
	MSD	2219079-02	ND	37.497	40.000	ug/L	3.4	93.7	20	70 - 130	
QC Batch ID: B147117		Used client sample: N									
Hexavalent Chromium	DUP	2219130-06	0.00019900	0.00019700		mg/L	1.0		10		J
	MS	2219130-06	0.00019900	0.020879	0.020202	mg/L		102		90 - 110	
	MSD	2219130-06	0.00019900	0.020796	0.020202	mg/L	0.4	102	10	90 - 110	

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3761 Attucks Drive
Powell, OH 43065

Reported: 08/25/2022 14:13
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Notes And Definitions

J Estimated Value (CLP Flag)
MDL Method Detection Limit
ND Analyte Not Detected
PQL Practical Quantitation Limit



Date of Report: 08/26/2022

David Conner

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

Client Project: 3Q22
BCL Project: JPL- GW Monitoring Wells-CLP
BCL Work Order: 2219130
Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 8/10/2022. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

A handwritten signature in black ink that reads "Natalie Serda".

Contact Person: Natalie Serda
Client Service Rep

A handwritten signature in black ink that reads "Stuart Buttram".

Stuart Buttram
Operations Manager

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

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Chain of Custody Form



Page 1 of 1

<p>Report To: Tidewater, Inc. Client: David Conner Address: 3761 Albuca Drive City: Powell State: OH Zip: 43065 Phone: 626 1298 - 5715 Fax: 614 792-2897 Email: david.conner@jldh2o.net Submission #: 11-19130</p>	<p>Project Description: JPL-GW Monitoring Project Code: 3Q22 Sampler(s): Blaine Tech</p>	<p>Billing: Client: Tidewater Attn: David Conner Address: 3761 Albuca 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</p>	<p>Analysis Requested:</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <tr> <td>Orthophosphate 365.1</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Cl, NO3, NO2, SO4</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Hexavalent Cr6 +21.6 (mg/L)</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>Perchlorate</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>TRM: Cr</td> <td></td> <td></td> <td></td> <td></td> <td></td> </tr> <tr> <td>VOCs EPA 524.2</td> <td>X</td> <td></td> <td></td> <td></td> <td></td> </tr> </table> <p>Notes: Laboratory please select 2 SDs for Level IV validation MS/MSD</p>	Orthophosphate 365.1						Cl, NO3, NO2, SO4						Hexavalent Cr6 +21.6 (mg/L)						Perchlorate						TRM: Cr						VOCs EPA 524.2	X				
Orthophosphate 365.1																																							
Cl, NO3, NO2, SO4																																							
Hexavalent Cr6 +21.6 (mg/L)																																							
Perchlorate																																							
TRM: Cr																																							
VOCs EPA 524.2	X																																						

Sample #	Sample Description	Date	Time	Matrix*
-1	TB-8-081022	08/10/22	0700	W
-2	MW-18-5	08/10	0805	W
-3	DUP-7-3822	08/10	0820	W
-4	MW-18-4	08/10	0845	W
-5	MW-18-5	08/10	0930	W
-6	MW-18-2	08/10	1030	W
-7	FB-8-081022	08/10	1045	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

Global ID: _____

Cost Center:

1. Relinquished By: _____	Date: 08/10/22	Time: 1430
2. Relinquished By: Nicole Powell (BD)	Date: 8/10/22	Time: 1455
3. Relinquished By: _____	Date: 8/10/22	Time: 2000

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 CC)

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

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

CHK BY: TPM **DISTRIBUTION:** TPM **HOLDING TIME:** _____

DO **Cl₂** **BOD** **MBAS** **COT**

SUB OUT:

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>1</u> Of <u>1</u>	
Submission #: <u>22-19130</u>					
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> GSO / GLS <input type="checkbox"/> Hand Delivery <input type="checkbox"/> Pace 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 checked="" type="checkbox"/>
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: _____					
Custody Seals Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____ Intact? Yes <input type="checkbox"/> No <input type="checkbox"/> Intact? Yes <input type="checkbox"/> No <input type="checkbox"/>					
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <u>0.97</u> Container: <u>PE</u> Thermometer ID: <u>274</u>		Date/Time <u>8/10/22 2000</u>	
		Temperature: (A) <u>1.2</u> °C / (C) <u>1.3</u> °C		Analyst Init <u>PRE</u>	

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	G,H	D			
2oz Cy*				E	E	I,J	E			
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz (8oz) 16oz				F	F	K,L	F			
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
P/A 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 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.J										
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										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____
 Sample Numbering Completed By: PRE Date/Time: 8/10/22 0852
 A = Actual / C = Corrected

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

Reported: 08/26/2022 8:26
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information					
2219130-01	COC Number:	---	Receive Date:	08/10/2022 20:00		
	Project Number:	JPL GW	Sampling Date:	08/10/2022 07:00		
	Sampling Location:	---	Sample Depth:	---		
	Sampling Point:	TB-8-801022	Lab Matrix:	Water		
	Sampled By:	BTST	Sample Type:	Water		
			Delivery Work Order:			
			Global ID:	0000000000		
			Location ID (FieldPoint):	TB-8-801022		
			Matrix:	WG		
			Sample QC Type (SACode):	CS		
		Cooler ID:				
2219130-02	COC Number:	---	Receive Date:	08/10/2022 20:00		
	Project Number:	JPL GW	Sampling Date:	08/10/2022 08:05		
	Sampling Location:	---	Sample Depth:	---		
	Sampling Point:	MW-18-5	Lab Matrix:	Water		
	Sampled By:	BTST	Sample Type:	Water		
			Delivery Work Order:			
			Global ID:	0000000000		
			Location ID (FieldPoint):	MW-18-5		
			Matrix:	WG		
			Sample QC Type (SACode):	CS		
		Cooler ID:				
2219130-03	COC Number:	---	Receive Date:	08/10/2022 20:00		
	Project Number:	JPL GW	Sampling Date:	08/10/2022 08:20		
	Sampling Location:	---	Sample Depth:	---		
	Sampling Point:	DUP-7-3Q22	Lab Matrix:	Water		
	Sampled By:	BTST	Sample Type:	Water		
			Delivery Work Order:			
			Global ID:	0000000000		
			Location ID (FieldPoint):	DUP-7-3Q22		
			Matrix:	WG		
			Sample QC Type (SACode):	CS		
		Cooler ID:				

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 Powell, OH 43065

Reported: 08/26/2022 8:26
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2219130-04	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW-18-4 Sampled By: BTST	Receive Date: 08/10/2022 20:00 Sampling Date: 08/10/2022 08:45 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:
-------------------	---	---

2219130-05	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW-18-3 Sampled By: BTST	Receive Date: 08/10/2022 20:00 Sampling Date: 08/10/2022 09:30 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:
-------------------	---	---

2219130-06	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW-18-2 Sampled By: BTST	Receive Date: 08/10/2022 20:00 Sampling Date: 08/10/2022 10:30 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: 08/26/2022 8:26
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2219130-07	COC Number:	---	Receive Date:	08/10/2022 20:00
	Project Number:	JPL GW	Sampling Date:	08/10/2022 10:45
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	EB-8-081022	Lab Matrix:	Water
	Sampled By:	BTST	Sample Type:	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): EB-8-081022	
			Matrix: WG	
			Sample QC Type (SACode): CS	
		Cooler ID:		

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

Reported: 08/26/2022 8:26
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2219130-01 **Client Sample Name:** JPL GW, TB-8-801022, 8/10/2022 7:00:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/26/2022 8:26
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2219130-01 **Client Sample Name:** JPL GW, TB-8-801022, 8/10/2022 7:00:00AM

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

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

Reported: 08/26/2022 8:26
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2219130-01	Client Sample Name: JPL GW, TB-8-801022, 8/10/2022 7:00:00AM
---------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	94.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/16/22 06:00	08/16/22 15:30	MGC	MS-V5	1	B146739	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/26/2022 8:26
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2219130-01	Client Sample Name: JPL GW, TB-8-801022, 8/10/2022 7:00:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/16/22 06:00	08/16/22	15:30	MGC	MS-V5	1	B146739	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
 3761 Attucks Drive
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Reported: 08/26/2022 8:26
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2219130-02	Client Sample Name: JPL GW, MW-18-5, 8/10/2022 8:05:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/26/2022 8:26
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2219130-02	Client Sample Name:	JPL GW, MW-18-5, 8/10/2022 8:05:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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	0.15	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	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: 08/26/2022 8:26
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2219130-02	Client Sample Name: JPL GW, MW-18-5, 8/10/2022 8:05:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	95.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/16/22 06:00	08/16/22 15:54	MGC	MS-V5	1	B146739	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/26/2022 8:26
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2219130-02	Client Sample Name: JPL GW, MW-18-5, 8/10/2022 8:05:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/16/22 06:00	08/16/22	15:54	MGC	MS-V5	1	B146739	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/26/2022 8:26
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2219130-02	Client Sample Name: JPL GW, MW-18-5, 8/10/2022 8:05:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/22/22 11:00	08/23/22 13:07	TMS	IC6	1	B147267	No Prep

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Reported: 08/26/2022 8:26
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2219130-03		Client Sample Name: JPL GW, DUP-7-3Q22, 8/10/2022 8:20:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/26/2022 8:26
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2219130-03	Client Sample Name:	JPL GW, DUP-7-3Q22, 8/10/2022 8:20:00AM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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	0.13	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	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: 08/26/2022 8:26
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2219130-03	Client Sample Name: JPL GW, DUP-7-3Q22, 8/10/2022 8:20:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	95.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/16/22 06:00	08/16/22 16:18	MGC	MS-V5	1	B146739	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
 3761 Attucks Drive
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Reported: 08/26/2022 8:26
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2219130-03	Client Sample Name: JPL GW, DUP-7-3Q22, 8/10/2022 8:20:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/16/22 06:00	08/16/22	16:18	MGC	MS-V5	1	B146739	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/26/2022 8:26
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2219130-03	Client Sample Name: JPL GW, DUP-7-3Q22, 8/10/2022 8:20:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC	
									Batch ID	Prep Method
1	EPA-314.0	08/22/22	11:00	08/23/22	13:22	TMS	IC6	1	B147267	No Prep

DCN = Data Continuation Number

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Reported: 08/26/2022 8:26
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2219130-04	Client Sample Name:	JPL GW, MW-18-4, 8/10/2022 8:45:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
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	2.2	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	0.79	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: 08/26/2022 8:26
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2219130-04	Client Sample Name:	JPL GW, MW-18-4, 8/10/2022 8:45:00AM					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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	0.72	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	0.96	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
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 Powell, OH 43065

Reported: 08/26/2022 8:26
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2219130-04 **Client Sample Name:** JPL GW, MW-18-4, 8/10/2022 8:45:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	98.9	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/16/22 06:00	08/16/22 16:42	MGC	MS-V5	1	B146739	EPA 524.2

DCN = Data Continuation Number



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Reported: 08/26/2022 8:26
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2219130-04	Client Sample Name: JPL GW, MW-18-4, 8/10/2022 8:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/16/22 06:00	08/16/22	16:42	MGC	MS-V5	1	B146739	EPA 524.2

DCN = Data Continuation Number



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Reported: 08/26/2022 8:26
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2219130-04	Client Sample Name: JPL GW, MW-18-4, 8/10/2022 8:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	15	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/22/22 11:00	08/23/22 14:08	TMS	IC6	1	B147267	No Prep

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Reported: 08/26/2022 8:26
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2219130-04	Client Sample Name: JPL GW, MW-18-4, 8/10/2022 8:45:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.0030	mg/L	0.00020	0.000020	EPA-218.6	0.000091		1
Total Recoverable Chromium	2.7	ug/L	3.0	0.50	EPA-200.8	ND	J	2

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/16/22 23:00	08/18/22	23:05	KB1	IC-4	1	B147117	No Prep
2	EPA-200.8	08/17/22 18:15	08/23/22	16:08	KHS	PE-EL2	1	B146938	EPA 200.2

DCN = Data Continuation Number

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Reported: 08/26/2022 8:26
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2219130-05	Client Sample Name: JPL GW, MW-18-3, 8/10/2022 9:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/26/2022 8:26
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2219130-05		Client Sample Name: JPL GW, MW-18-3, 8/10/2022 9:30:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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

Reported: 08/26/2022 8:26
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2219130-05	Client Sample Name: JPL GW, MW-18-3, 8/10/2022 9:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	97.1	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/16/22 06:00	08/16/22 17:06	MGC	MS-V5	1	B146739	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/26/2022 8:26
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2219130-05	Client Sample Name: JPL GW, MW-18-3, 8/10/2022 9:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/16/22 06:00	08/16/22	17:06	MGC	MS-V5	1	B146739	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/26/2022 8:26
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2219130-05	Client Sample Name: JPL GW, MW-18-3, 8/10/2022 9:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC	
		Prep Date	Time	Date/Time	Time				Batch ID	Prep Method
1	EPA-314.0	08/22/22	11:00	08/23/22	14:23	TMS	IC6	1	B147267	No Prep

DCN = Data Continuation Number

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Reported: 08/26/2022 8:26
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2219130-05	Client Sample Name: JPL GW, MW-18-3, 8/10/2022 9:30:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.0019	mg/L	0.00020	0.000020	EPA-218.6	0.000091		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/16/22 23:00	08/18/22 23:15		KB1	IC-4	1	B147117	No Prep
2	EPA-200.8	08/17/22 18:15	08/23/22 16:10		KHS	PE-EL2	1	B146938	EPA 200.2

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Reported: 08/26/2022 8:26
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2219130-06	Client Sample Name: JPL GW, MW-18-2, 8/10/2022 10:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/26/2022 8:26
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2219130-06		Client Sample Name: JPL GW, MW-18-2, 8/10/2022 10:30:00AM						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/26/2022 8:26
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2219130-06	Client Sample Name: JPL GW, MW-18-2, 8/10/2022 10:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/16/22 06:00	08/16/22 13:04	MGC	MS-V5	1	B146739	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/26/2022 8:26
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2219130-06	Client Sample Name: JPL GW, MW-18-2, 8/10/2022 10:30:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/16/22 06:00	08/16/22	13:04	MGC	MS-V5	1	B146739	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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 Powell, OH 43065

Reported: 08/26/2022 8:26
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2219130-06	Client Sample Name: JPL GW, MW-18-2, 8/10/2022 10:30:00AM
----------------------------------	--

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

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	08/22/22 11:00	08/23/22 14:39	TMS	IC6	1	B147268	No Prep

DCN = Data Continuation Number

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Reported: 08/26/2022 8:26
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2219130-06	Client Sample Name: JPL GW, MW-18-2, 8/10/2022 10:30:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00020	mg/L	0.00020	0.000020	EPA-218.6	0.000091		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC	
									Batch ID	Prep Method
1	EPA-218.6	08/16/22	23:00	08/18/22	21:29	KB1	IC-4	1	B147117	No Prep
2	EPA-200.8	08/17/22	18:15	08/23/22	15:41	KHS	PE-EL2	1	B146938	EPA 200.2

DCN = Data Continuation Number

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Reported: 08/26/2022 8:26
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2219130-07	Client Sample Name: JPL GW, EB-8-081022, 8/10/2022 10:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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
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Reported: 08/26/2022 8:26
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2219130-07 **Client Sample Name:** JPL GW, EB-8-081022, 8/10/2022 10:45:00AM

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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: 08/26/2022 8:26
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2219130-07	Client Sample Name: JPL GW, EB-8-081022, 8/10/2022 10:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
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)	99.6	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	08/16/22 06:00	08/16/22 17:30	MGC	MS-V5	1	B146739	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/26/2022 8:26
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2219130-07	Client Sample Name: JPL GW, EB-8-081022, 8/10/2022 10:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1
Chloroacetonitrile	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

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	08/16/22 06:00	08/16/22	17:30	MGC	MS-V5	1	B146739	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 08/26/2022 8:26
Project: JPL- GW Monitoring Wells-CLP
Project Number: 3Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2219130-07	Client Sample Name: JPL GW, EB-8-081022, 8/10/2022 10:45:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		1

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time	Date/Time				Batch ID	Prep Method
1	EPA-314.0	08/22/22 11:00	08/23/22	15:40	TMS	IC6	1	B147267	No Prep

DCN = Data Continuation Number

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Reported: 08/26/2022 8:26
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2219130-07	Client Sample Name: JPL GW, EB-8-081022, 8/10/2022 10:45:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00018	mg/L	0.00020	0.000020	EPA-218.6	0.000091	J	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	08/16/22 23:00	08/18/22	23:24	KB1	IC-4	1	B147117	No Prep
2	EPA-200.8	08/17/22 18:15	08/23/22	16:11	KHS	PE-EL2	1	B146938	EPA 200.2

DCN = Data Continuation Number

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Reported: 08/26/2022 8:26
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146739						
Benzene	B146739-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B146739-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B146739-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B146739-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B146739-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B146739-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B146739-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B146739-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B146739-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B146739-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B146739-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B146739-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B146739-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B146739-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B146739-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B146739-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B146739-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B146739-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B146739-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B146739-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B146739-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B146739-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B146739-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B146739-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B146739-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B146739-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B146739-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B146739-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B146739-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B146739-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B146739-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B146739-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B146739-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B146739-BLK1	ND	ug/L	0.50	0.14	

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Reported: 08/26/2022 8:26
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146739						
trans-1,3-Dichloropropene	B146739-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B146739-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B146739-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B146739-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B146739-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B146739-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B146739-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B146739-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B146739-BLK1	ND	ug/L	0.50	0.12	
Styrene	B146739-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B146739-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2,2-Tetrachloroethane	B146739-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B146739-BLK1	ND	ug/L	0.50	0.23	
Toluene	B146739-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B146739-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B146739-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B146739-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B146739-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B146739-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B146739-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B146739-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B146739-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B146739-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B146739-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B146739-BLK1	ND	ug/L	0.50	0.18	
Acetone	B146739-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B146739-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B146739-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B146739-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B146739-BLK1	ND	ug/L	2.0	2.0	
Carbon disulfide	B146739-BLK1	ND	ug/L	0.50	0.48	
trans-1,4-Dichloro-2-butene	B146739-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B146739-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B146739-BLK1	ND	ug/L	4.0	1.3	

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Reported: 08/26/2022 8:26
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146739						
Ethyl t-butyl ether	B146739-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B146739-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B146739-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B146739-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B146739-BLK1	ND	ug/L	5.0	3.3	
Methyl iodide	B146739-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B146739-BLK1	ND	ug/L	5.0	2.4	
Methyl methacrylate	B146739-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B146739-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B146739-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B146739-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B146739-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B146739-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B146739-BLK1	97.3	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B146739-BLK1	95.4	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B146739-BLK1	92.9	%	80 - 120 (LCL - UCL)		

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Reported: 08/26/2022 8:26
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B146739										
Benzene	B146739-BS1	LCS	24.770	25.000	ug/L	99.1		70 - 130		
Bromodichloromethane	B146739-BS1	LCS	27.740	25.000	ug/L	111		70 - 130		
Chlorobenzene	B146739-BS1	LCS	25.320	25.000	ug/L	101		70 - 130		
Chloroethane	B146739-BS1	LCS	27.860	25.000	ug/L	111		70 - 130		
1,4-Dichlorobenzene	B146739-BS1	LCS	27.510	25.000	ug/L	110		70 - 130		
1,1-Dichloroethane	B146739-BS1	LCS	24.520	25.000	ug/L	98.1		70 - 130		
1,1-Dichloroethene	B146739-BS1	LCS	25.620	25.000	ug/L	102		70 - 130		
Toluene	B146739-BS1	LCS	24.450	25.000	ug/L	97.8		70 - 130		
Trichloroethene	B146739-BS1	LCS	25.250	25.000	ug/L	101		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B146739-BS1	LCS	10.210	10.000	ug/L	102		75 - 125		
Toluene-d8 (Surrogate)	B146739-BS1	LCS	9.7600	10.000	ug/L	97.6		80 - 120		
4-Bromofluorobenzene (Surrogate)	B146739-BS1	LCS	9.9200	10.000	ug/L	99.2		80 - 120		

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

Reported: 08/26/2022 8:26
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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 Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: B146739		Used client sample: Y - Description: MW-18-2, 08/10/2022 10:30									
Benzene	MS	2219130-06	ND	25.160	25.000	ug/L		101		70 - 130	
	MSD	2219130-06	ND	23.330	25.000	ug/L	7.5	93.3	20	70 - 130	
Bromodichloromethane	MS	2219130-06	ND	28.810	25.000	ug/L		115		70 - 130	
	MSD	2219130-06	ND	26.360	25.000	ug/L	8.9	105	20	70 - 130	
Chlorobenzene	MS	2219130-06	ND	26.110	25.000	ug/L		104		70 - 130	
	MSD	2219130-06	ND	24.720	25.000	ug/L	5.5	98.9	20	70 - 130	
Chloroethane	MS	2219130-06	ND	28.550	25.000	ug/L		114		70 - 130	
	MSD	2219130-06	ND	26.240	25.000	ug/L	8.4	105	20	70 - 130	
1,4-Dichlorobenzene	MS	2219130-06	ND	28.430	25.000	ug/L		114		70 - 130	
	MSD	2219130-06	ND	26.150	25.000	ug/L	8.4	105	20	70 - 130	
1,1-Dichloroethane	MS	2219130-06	ND	25.340	25.000	ug/L		101		70 - 130	
	MSD	2219130-06	ND	23.570	25.000	ug/L	7.2	94.3	20	70 - 130	
1,1-Dichloroethene	MS	2219130-06	ND	26.780	25.000	ug/L		107		70 - 130	
	MSD	2219130-06	ND	24.450	25.000	ug/L	9.1	97.8	20	70 - 130	
Toluene	MS	2219130-06	ND	24.940	25.000	ug/L		99.8		70 - 130	
	MSD	2219130-06	ND	22.980	25.000	ug/L	8.2	91.9	20	70 - 130	
Trichloroethene	MS	2219130-06	ND	25.140	25.000	ug/L		101		70 - 130	
	MSD	2219130-06	ND	23.420	25.000	ug/L	7.1	93.7	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	2219130-06	ND	10.160	10.000	ug/L		102		75 - 125	
	MSD	2219130-06	ND	10.440	10.000	ug/L	2.7	104		75 - 125	
Toluene-d8 (Surrogate)	MS	2219130-06	ND	9.6400	10.000	ug/L		96.4		80 - 120	
	MSD	2219130-06	ND	9.5600	10.000	ug/L	0.8	95.6		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	2219130-06	ND	9.9800	10.000	ug/L		99.8		80 - 120	
	MSD	2219130-06	ND	10.010	10.000	ug/L	0.3	100		80 - 120	

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 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B146739						
Nitrobenzene	B146739-BLK1	0	ug/L			
Methyl acrylate	B146739-BLK1	0	ug/L			
Chloroacetonitrile	B146739-BLK1	0	ug/L			
2-Nitropropane	B146739-BLK1	0	ug/L			
1-Chlorobutane	B146739-BLK1	0	ug/L			
1,1-Dichloropropanone	B146739-BLK1	0	ug/L			

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Reported: 08/26/2022 8:26
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Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B147267						
Perchlorate	B147267-BLK1	ND	ug/L	2.0	0.81	
QC Batch ID: B147268						
Perchlorate	B147268-BLK1	ND	ug/L	2.0	0.81	

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Reported: 08/26/2022 8:26
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 3Q22
 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: B147267										
Perchlorate	B147267-BS1	LCS	9.9279	10.000	ug/L	99.3		85 - 115		
	B147267-BSD1	LCSD	9.8890	10.000	ug/L	98.9	0.4	85 - 115	15	
QC Batch ID: B147268										
Perchlorate	B147268-BS1	LCS	9.9263	10.000	ug/L	99.3		85 - 115		
	B147268-BSD1	LCSD	9.7207	10.000	ug/L	97.2	2.1	85 - 115	15	

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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	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: B147267		Used client sample: N									
Perchlorate	DUP	2218854-09	3.1235	3.1248		ug/L	0.0		15		
	MS	2218854-09	3.1235	11.787	10.101	ug/L		85.8		80 - 120	
	MSD	2218854-09	3.1235	11.959	10.101	ug/L	1.4	87.5	15	80 - 120	
QC Batch ID: B147268		Used client sample: Y - Description: MW-18-2, 08/10/2022 10:30									
Perchlorate	DUP	2219130-06	ND	ND		ug/L			15		
	MS	2219130-06	ND	9.0480	10.101	ug/L		89.6		80 - 120	
	MSD	2219130-06	ND	9.0634	10.101	ug/L	0.2	89.7	15	80 - 120	

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Reported: 08/26/2022 8:26
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 Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B146938						
Total Recoverable Chromium	B146938-BLK1	ND	ug/L	3.0	0.50	
QC Batch ID: B147117						
Hexavalent Chromium	B147117-BLK1	0.000091000	mg/L	0.00020	0.000020	J

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 Project Number: 3Q22
 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: B146938										
Total Recoverable Chromium	B146938-BS1	LCS	39.151	40.000	ug/L	97.9		85 - 115		
QC Batch ID: B147117										
Hexavalent Chromium	B147117-BS1	LCS	0.021496	0.020000	mg/L	107		90 - 110		
	B147117-BSD1	LCSD	0.021748	0.020000	mg/L	109	1.2	90 - 110		10

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Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab
									RPD	Percent Recovery	
QC Batch ID: B146938		Used client sample: Y - Description: MW-18-2, 08/10/2022 10:30									
Total Recoverable Chromium	DUP	2219130-06	ND	ND		ug/L			20		
	MS	2219130-06	ND	37.617	40.000	ug/L		94.0		70 - 130	
	MSD	2219130-06	ND	41.728	40.000	ug/L	10.4	104	20	70 - 130	
QC Batch ID: B147117		Used client sample: Y - Description: MW-18-2, 08/10/2022 10:30									
Hexavalent Chromium	DUP	2219130-06	0.00019900	0.00019700		mg/L	1.0		10		J
	MS	2219130-06	0.00019900	0.020879	0.020202	mg/L		102		90 - 110	
	MSD	2219130-06	0.00019900	0.020796	0.020202	mg/L	0.4	102	10	90 - 110	

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Notes And Definitions

J Estimated Value (CLP Flag)
MDL Method Detection Limit
ND Analyte Not Detected
PQL Practical Quantitation Limit