

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: 11/21/2022

David Conner

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

Client Project: [none]
BCL Project: JPL- GW Monitoring Wells-CLP
BCL Work Order: 2225521
Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 10/24/2022. 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.
All results listed in this report are for the exclusive use of the submitting party. Pace Analytical assumes no responsibility for report alteration, separation, detachment or third party interpretation.

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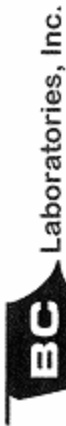
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WSD 10-24-21
2A 2-2

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Chain of Custody Form



*Required Fields 22-25521

Report To: Tidewater, Inc.
Client: David Conner
Attn: David Conner
Street Address: 3761 Altucks Drive
City: Powell State: OH Zip: 43065
Phone: 626 288 - 5715 Fax: 614 792 - 2897
Email Address: david.conner@tidah2o.net

Project Description: JPL-GW Monitoring
Project Code: 4C22
Sampler (s): Blaine Tech

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

Sample #	Sample Description	Date	Time	Matrix*	Notes
-1	TB-1-102422	10/24/22	0700	W	Laboratory please select Z
-2	MW-20-5		0830	W	SPBs for Level IV validation
-3	MW-20-4		0900	W	
-4	MW-20-3		0935	W	
-5	MW-20-2		1005	W	
-6	DP-1-1022		1015	W	
-7	MW-19-5		1135	W	
-8	MW-19-4		1215	W	
-9	MW-19-3		1245	W	
-10	MW-19-2		1310	W	
-11	MW-19-1		1345	W	

Matrix Types: S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous
 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: [Signature] Date: 10/21/22 Time: 1415
 2. Relinquished By: [Signature] Date: 10-24-22 Time: 1720
 3. Relinquished By: [Signature] Date: 10-24-22 Time: 1720

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
 CVX RCDA
 Geotracker 5 File (CA Default)
 Geotracker 2 File
 Other (Specify) _____

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

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BC Laboratories, Inc. Chain of Custody Form

Page 2 of 2

Report To: Tidewater, Inc. Client: David Conner Attn: David Conner Street Address: 3781 Attucks Drive City: Powell State: OH Zip: 43065 Phone: 614-288-5715 Fax: 614-792-2897 Email Address: david.conner@tideh2o.net		Project Description: JPL-GW Monitoring Project Code: 4Q22 Sampler(s): Baseline Tech		Billing: 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 *Standard Turnaround = 10	
Matrix Types: S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other		Analysis Requested			
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) Lab TAT Approval: _____ *Additional Charges May Apply		Notes: Laboratory, please select 7 SDGS for Level IV Validation			
Matrix Types: S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other		Cost Center: 1. Requisitioned By: _____ Date: 10/21/22 Time: _____ 2. Requisitioned By: _____ Date: 10-24-22 Time: 14:15 3. Requisitioned By: _____ Date: 10-24-22 Time: 17:20			
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. Received By: _____ Date: _____ Time: _____ 2. Received By: _____ Date: _____ Time: _____ 3. Received By: _____ Date: _____ Time: _____			

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 3	
Submission #: <u>22-25521</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"/> 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>0.98</u> Container: <u>PE</u> Thermometer ID: <u>274</u>		Date/Time <u>10/24/22</u> 1720	
		Temperature: (A) <u>3.3</u> °C / (C) <u>3.3</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										
2oz Cr ⁴										G, H
QT INORGANIC CHEMICAL METALS										L, J
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										K, L
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
Pa PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL - 504										
QT EPA 505/508/5051A										
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 3015M										
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: JCP Date/Time: 10/23/22 0940
 A = Actual / C = Corrected

Rev 23 05/20/22

(G:\IT\Dev\Word\PerfectLAB_DOC\FORMS\18A\RECrev 28)

PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>2</u> of <u>3</u>	
Submission #: <u>22-25521</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 type="checkbox"/> No <input type="checkbox"/>					
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <u>0.93</u> Container: <u>PE</u> Thermometer ID: <u>214</u>		Date/Time <u>10/24/22 1720</u>	
		Temperature: (A) <u>3.3</u> °C / (C) <u>3.3</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							
2oz Cr ⁴	E	E	E							
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz (16oz)	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										
40ml VOA VIAL	A-C	A-C	A-C							
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/618.38031A										
QT EPA 515.18151A										
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: JCD Date/Time: 10/23/22 0840 Rev 23 05/20/22
 A = Actual / C = Corrected [E:\NPD\Dev\WetPerfect\LAB_DOC\CFORMSIGASRECEV 22]

PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>3</u> Of <u>3</u>							
Submission #: <u>22-25521</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 type="checkbox"/> No <input type="checkbox"/>											
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <u>0.93</u> Container: <u>PE</u> Thermometer ID: <u>214</u> Temperature: (A) <u>1.5</u> °C / (C) <u>1.5</u> °C		Date/Time <u>10/24/22 1720</u> Analyst Init <u>PBC</u>							
SAMPLE CONTAINERS		SAMPLE NUMBERS									
		1	2	3	4	5	6	7	8	9	10
QT PE UNPRES		D	D	D	D	D	D	D	D	D	D
4oz / 8oz / 16oz PE UNPRES		E	E	E	E	E	E	E	E	E	E
2oz Cr ⁶											
QT INORGANIC CHEMICAL METALS											
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz		F	F	F	F	F	F	F	F	F	F
PT CYANIDE											
PT NITROGEN FORMS											
PT TOTAL SULFIDE											
2oz. NITRATE / NITRITE											
PT TOTAL ORGANIC CARBON											
PT CHEMICAL OXYGEN DEMAND											
PIA PHENOLICS											
40ml VOA VIAL TRAVEL BLANK											
40ml VOA VIAL											
QT EPA 1664B											
PT ODOR											
RADIOLOGICAL											
BACTERIOLOGICAL											
40 ml VOA VIAL- 504											
QT EPA 508/509, 131031A											
QT EPA 515.18151A											
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: JL Date/Time: 10/27/22 0840
 A = Actual / C = Corrected



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

Reported: 11/21/2022 9:44
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
2225521-01	COC Number:	---	Receive Date: 10/24/2022 17:20
	Project Number:	JPL GW	Sampling Date: 10/24/2022 07:00
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	TB-1-102422	Lab Matrix: Water
	Sampled By:	BTST	Sample Type: Water
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): TB-1-102422
			Matrix: W
			Sample QC Type (SACode): CS
		Cooler ID:	
2225521-02	COC Number:	---	Receive Date: 10/24/2022 17:20
	Project Number:	JPL GW	Sampling Date: 10/24/2022 08:30
	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: W
			Sample QC Type (SACode): CS
		Cooler ID:	
2225521-03	COC Number:	---	Receive Date: 10/24/2022 17:20
	Project Number:	JPL GW	Sampling Date: 10/24/2022 09:00
	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: W
			Sample QC Type (SACode): CS
		Cooler ID:	

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

Reported: 11/21/2022 9:44
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
2225521-04	COC Number:	---	Receive Date: 10/24/2022 17:20
	Project Number:	JPL GW	Sampling Date: 10/24/2022 09:35
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	MW-20-3	Lab Matrix: Water
	Sampled By:	BTST	Sample Type: Water
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): MW-20-3
			Matrix: W
			Sample QC Type (SACode): CS
		Cooler ID:	
2225521-05	COC Number:	---	Receive Date: 10/24/2022 17:20
	Project Number:	JPL GW	Sampling Date: 10/24/2022 10:05
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	MW-20-2	Lab Matrix: Water
	Sampled By:	BTST	Sample Type: Water
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): MW-20-2
			Matrix: W
			Sample QC Type (SACode): CS
		Cooler ID:	
2225521-06	COC Number:	---	Receive Date: 10/24/2022 17:20
	Project Number:	JPL GW	Sampling Date: 10/24/2022 10:15
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	DUP-1-4Q22	Lab Matrix: Water
	Sampled By:	BTST	Sample Type: Water
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): DUP-1-4Q22
			Matrix: W
			Sample QC Type (SACode): CS
		Cooler ID:	

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

Reported: 11/21/2022 9:44
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
2225521-07	COC Number:	---	Receive Date: 10/24/2022 17:20
	Project Number:	JPL GW	Sampling Date: 10/24/2022 11:35
	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: W
			Sample QC Type (SACode): CS
		Cooler ID:	
2225521-08	COC Number:	---	Receive Date: 10/24/2022 17:20
	Project Number:	JPL GW	Sampling Date: 10/24/2022 12:15
	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: W
			Sample QC Type (SACode): CS
		Cooler ID:	
2225521-09	COC Number:	---	Receive Date: 10/24/2022 17:20
	Project Number:	JPL GW	Sampling Date: 10/24/2022 12:45
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	MW19-3	Lab Matrix: Water
	Sampled By:	BTST	Sample Type: Water
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): MW19-3
			Matrix: W
			Sample QC Type (SACode): CS
		Cooler ID:	

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 3761 Attucks Drive
 Powell, OH 43065

Reported: 11/21/2022 9:44
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
2225521-10	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW19-2 Sampled By: BTST		Receive Date: 10/24/2022 17:20 Sampling Date: 10/24/2022 13:10 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW19-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
2225521-11	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW19-1 Sampled By: BTST		Receive Date: 10/24/2022 17:20 Sampling Date: 10/24/2022 13:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW19-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
2225521-12	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: EB-1-102422 Sampled By: BTST		Receive Date: 10/24/2022 17:20 Sampling Date: 10/24/2022 13:55 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-1-102422 Matrix: W Sample QC Type (SACode): CS Cooler ID:

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

Reported: 11/21/2022 9:44
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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2225521-13	COC Number:	---	Receive Date:	10/24/2022 17:20
	Project Number:	JPL GW	Sampling Date:	10/24/2022 14:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	SB-1-102422	Lab Matrix:	Water
	Sampled By:	BTST	Sample Type:	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): SB-1-102422	
			Matrix: W	
			Sample QC Type (SACode): CS	
		Cooler ID:		

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

Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225521-01	Client Sample Name:	JPL GW, TB-1-102422, 10/24/2022 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	1.1	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: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225521-01 **Client Sample Name:** JPL GW, TB-1-102422, 10/24/2022 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: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225521-01 **Client Sample Name:** JPL GW, TB-1-102422, 10/24/2022 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)	97.2	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.2	%	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	10/28/22 09:00	10/28/22 22:05	MGC	MS-V5	1	B152497	EPA 524.2

DCN = Data Continuation Number

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

Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225521-01	Client Sample Name: JPL GW, TB-1-102422, 10/24/2022 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	10/28/22 09:00	10/28/22	22:05	MGC	MS-V5	1	B152497	EPA 524.2

DCN = Data Continuation Number



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

Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225521-02	Client Sample Name:	JPL GW, MW-20-5, 10/24/2022 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
 Powell, OH 43065

Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225521-02	Client Sample Name:	JPL GW, MW-20-5, 10/24/2022 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	0.54	ug/L	0.50	0.48	EPA-524.2	ND		1	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1	

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

Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225521-02 **Client Sample Name:** JPL GW, MW-20-5, 10/24/2022 8:30:00AM

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)	100	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.3	%	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	10/28/22 09:00	10/28/22 22:29	MGC	MS-V5	1	B152497	EPA 524.2

DCN = Data Continuation Number



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

Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225521-02	Client Sample Name: JPL GW, MW-20-5, 10/24/2022 8:30:00AM
---------------------------	---

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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	10/28/22 09:00	10/28/22 22:29	MGC	MS-V5	1	B152497	EPA 524.2

DCN = Data Continuation Number



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

Reported: 11/21/2022 9:44
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225521-02	Client Sample Name: JPL GW, MW-20-5, 10/24/2022 8:30:00AM
----------------------------------	--

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	11/08/22 17:00	11/08/22 21:25	SAV	IC6	1	B153451	No Prep

DCN = Data Continuation Number

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Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225521-02	Client Sample Name: JPL GW, MW-20-5, 10/24/2022 8:30:00AM							
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	10/25/22	18:00	10/26/22	10:37	RC1	IC-4	1	B152320	No Prep
2	EPA-200.8	11/03/22	12:45	11/04/22	13:08	KHS	PE-EL4	1	B153064	EPA 200.2

DCN = Data Continuation Number

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Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225521-03		Client Sample Name: JPL GW, MW-20-4, 10/24/2022 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	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: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225521-03	Client Sample Name:	JPL GW, MW-20-4, 10/24/2022 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	ND	ug/L	0.50	0.23	EPA-524.2	ND		1	
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1	
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1	
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1	
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1	
Carbon disulfide	0.52	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: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225521-03 **Client Sample Name:** JPL GW, MW-20-4, 10/24/2022 9:00:00AM

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)	97.4	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	10/28/22 09:00	10/28/22 22:54	MGC	MS-V5	1	B152497	EPA 524.2

DCN = Data Continuation Number

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Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225521-03	Client Sample Name: JPL GW, MW-20-4, 10/24/2022 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	10/28/22 09:00	10/28/22	22:54	MGC	MS-V5	1	B152497	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 11/21/2022 9:44
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225521-03	Client Sample Name: JPL GW, MW-20-4, 10/24/2022 9:00:00AM
----------------------------------	--

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		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-314.0	11/08/22 17:00	11/08/22	21:40	SAV	IC6	1	B153451	No Prep

DCN = Data Continuation Number

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Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225521-03	Client Sample Name: JPL GW, MW-20-4, 10/24/2022 9:00:00AM							
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	10/25/22	18:00	10/26/22	11:44	RC1	IC-4	1	B152320	No Prep
2	EPA-200.8	11/03/22	12:45	11/04/22	13:10	KHS	PE-EL4	1	B153064	EPA 200.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225521-04 **Client Sample Name:** JPL GW, MW-20-3, 10/24/2022 9:35:00AM

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: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225521-04	Client Sample Name:	JPL GW, MW-20-3, 10/24/2022 9:35:00AM					
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	0.73	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	0.87	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: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225521-04 **Client Sample Name:** JPL GW, MW-20-3, 10/24/2022 9:35:00AM

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)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.2	%	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	10/28/22 09:00	10/28/22 23:18	MGC	MS-V5	1	B152497	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
 3761 Attucks Drive
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Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225521-04	Client Sample Name: JPL GW, MW-20-3, 10/24/2022 9:35:00AM
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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	10/28/22 09:00	10/28/22	23:18	MGC	MS-V5	1	B152497	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 11/21/2022 9:44
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225521-04	Client Sample Name: JPL GW, MW-20-3, 10/24/2022 9:35:00AM
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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	11/08/22 17:00	11/08/22 22:26		SAV	IC6	1	B153451	No Prep

DCN = Data Continuation Number

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Reported: 11/21/2022 9:44
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225521-04	Client Sample Name: JPL GW, MW-20-3, 10/24/2022 9:35:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.000034	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	10/25/22 18:00	10/26/22	12:13	RC1	IC-4	1	B152320	No Prep
2	EPA-200.8	11/03/22 12:45	11/04/22	13:12	KHS	PE-EL4	1	B153064	EPA 200.2

DCN = Data Continuation Number

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Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225521-05 **Client Sample Name:** JPL GW, MW-20-2, 10/24/2022 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	0.61	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: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225521-05	Client Sample Name: JPL GW, MW-20-2, 10/24/2022 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	0.44	ug/L	0.50	0.23	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	0.38	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: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225521-05	Client Sample Name: JPL GW, MW-20-2, 10/24/2022 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)	98.6	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.0	%	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	10/28/22 09:00	10/28/22 23:42	MGC	MS-V5	1	B152497	EPA 524.2

DCN = Data Continuation Number

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Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225521-05	Client Sample Name: JPL GW, MW-20-2, 10/24/2022 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	10/28/22 09:00	10/28/22	23:42	MGC	MS-V5	1	B152497	EPA 524.2

DCN = Data Continuation Number

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Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225521-05	Client Sample Name: JPL GW, MW-20-2, 10/24/2022 10:05:00AM
----------------------------------	---

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	11/08/22 17:00	11/08/22 22:41	SAV	IC6	1	B153451	No Prep

DCN = Data Continuation Number

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Tidewater Inc. - Powell
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 Powell, OH 43065

Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225521-05	Client Sample Name: JPL GW, MW-20-2, 10/24/2022 10:05:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00014	mg/L	0.00020	0.000020	EPA-218.6	ND	J	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

DCN	Method	Prep Date		Run Date/Time		Analyst	Instrument	Dilution	QC	
									Batch ID	Prep Method
1	EPA-218.6	10/25/22	18:00	10/26/22	12:23	RC1	IC-4	1	B152320	No Prep
2	EPA-200.8	11/03/22	12:45	11/04/22	13:14	KHS	PE-EL4	1	B153064	EPA 200.2

DCN = Data Continuation Number

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Tidewater Inc. - Powell
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Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225521-06	Client Sample Name:	JPL GW, DUP-1-4Q22, 10/24/2022 10:15:00AM					
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	0.61	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: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225521-06							
Client Sample Name:	JPL GW, DUP-1-4Q22, 10/24/2022 10:15:00AM							
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	0.40	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	0.32	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: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225521-06	Client Sample Name: JPL GW, DUP-1-4Q22, 10/24/2022 10:15:00AM
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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	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)	99.1	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.7	%	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	10/28/22 09:00	10/29/22 00:06	MGC	MS-V5	1	B152497	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225521-06	Client Sample Name: JPL GW, DUP-1-4Q22, 10/24/2022 10:15:00AM
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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	10/28/22 09:00	10/29/22	00:06	MGC	MS-V5	1	B152497	EPA 524.2

DCN = Data Continuation Number

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Reported: 11/21/2022 9:44
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225521-06	Client Sample Name: JPL GW, DUP-1-4Q22, 10/24/2022 10:15:00AM
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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	11/08/22 17:00	11/08/22 22:57	SAV	IC6	1	B153451	No Prep

DCN = Data Continuation Number

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Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225521-06	Client Sample Name: JPL GW, DUP-1-4Q22, 10/24/2022 10:15:00AM							
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	10/25/22	18:00	10/26/22	12:32	RC1	IC-4	1	B152320	No Prep
2	EPA-200.8	11/03/22	12:45	11/04/22	13:15	KHS	PE-EL4	1	B153064	EPA 200.2

DCN = Data Continuation Number

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Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225521-07	Client Sample Name: JPL GW, MW-19-5, 10/24/2022 11:35:00AM
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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	2.2	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: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225521-07 **Client Sample Name:** JPL GW, MW-19-5, 10/24/2022 11:35:00AM

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	0.94	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	0.32	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: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225521-07	Client Sample Name: JPL GW, MW-19-5, 10/24/2022 11:35:00AM
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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)	98.2	%	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	10/28/22 09:00	10/29/22 00:29	MGC	MS-V5	1	B152497	EPA 524.2

DCN = Data Continuation Number

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

Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225521-07	Client Sample Name: JPL GW, MW-19-5, 10/24/2022 11:35:00AM
---------------------------	--

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	10/28/22 09:00	10/29/22	00:29	MGC	MS-V5	1	B152497	EPA 524.2

DCN = Data Continuation Number

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Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225521-07	Client Sample Name: JPL GW, MW-19-5, 10/24/2022 11:35:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	2.9	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	11/08/22 17:00	11/08/22	23:12	SAV	IC6	1	B153451	No Prep

DCN = Data Continuation Number

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Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225521-07	Client Sample Name: JPL GW, MW-19-5, 10/24/2022 11:35:00AM								
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Hexavalent Chromium	0.0014	mg/L	0.00020	0.000020	EPA-218.6	ND		1	
Total Recoverable Chromium	1.3	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	10/25/22 18:00	10/26/22 12:42		RC1	IC-4	1	B152320	No Prep
2	EPA-200.8	11/03/22 12:45	11/04/22 13:17		KHS	PE-EL4	1	B153064	EPA 200.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225521-08	Client Sample Name:	JPL GW, MW-19-4, 10/24/2022 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	2.7	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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Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225521-08	Client Sample Name: JPL GW, MW-19-4, 10/24/2022 12:15:00PM
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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	1.4	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	0.52	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: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225521-08	Client Sample Name: JPL GW, MW-19-4, 10/24/2022 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)	100	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.5	%	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	10/28/22 09:00	10/29/22 00:53	MGC	MS-V5	1	B152497	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
 3761 Attucks Drive
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Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225521-08	Client Sample Name: JPL GW, MW-19-4, 10/24/2022 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	10/28/22 09:00	10/29/22	00:53	MGC	MS-V5	1	B152497	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 11/21/2022 9:44
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225521-08	Client Sample Name: JPL GW, MW-19-4, 10/24/2022 12:15:00PM
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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	11/08/22 17:00	11/08/22 23:27	SAV	IC6	1	B153451	No Prep

DCN = Data Continuation Number

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Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225521-08	Client Sample Name: JPL GW, MW-19-4, 10/24/2022 12:15:00PM								
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	1.6	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	10/25/22	18:00	10/26/22	12:51	RC1	IC-4	1	B152320	No Prep
2	EPA-200.8	11/03/22	12:45	11/04/22	13:19	KHS	PE-EL4	1	B153064	EPA 200.2

DCN = Data Continuation Number

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Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225521-09	Client Sample Name:	JPL GW, MW19-3, 10/24/2022 12:45:00PM						
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	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: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225521-09	Client Sample Name:	JPL GW, MW19-3, 10/24/2022 12:45:00PM						
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	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	0.42	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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Tidewater Inc. - Powell
 3761 Attucks Drive
 Powell, OH 43065

Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225521-09	Client Sample Name: JPL GW, MW19-3, 10/24/2022 12:45:00PM
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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)	94.6	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.7	%	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	10/28/22 09:00	10/28/22 14:06	MGC	MS-V5	1	B152497	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225521-09	Client Sample Name: JPL GW, MW19-3, 10/24/2022 12:45:00PM
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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	10/28/22 09:00	10/28/22	14:06	MGC	MS-V5	1	B152497	EPA 524.2

DCN = Data Continuation Number

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Reported: 11/21/2022 9:44
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225521-09	Client Sample Name: JPL GW, MW19-3, 10/24/2022 12:45:00PM
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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	11/08/22 17:00	11/08/22 20:23	SAV	IC6	1	B153451	No Prep

DCN = Data Continuation Number

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Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225521-09	Client Sample Name: JPL GW, MW19-3, 10/24/2022 12:45:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.0014	mg/L	0.00020	0.000020	EPA-218.6	0.00013		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	10/25/22 18:00	10/26/22	13:20	RC1	IC-4	1	B152321	No Prep
2	EPA-200.8	11/03/22 12:45	11/04/22	12:50	KHS	PE-EL4	1	B153064	EPA 200.2

DCN = Data Continuation Number

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Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225521-10 **Client Sample Name:** JPL GW, MW19-2, 10/24/2022 1:10:00PM

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	1.1	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: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225521-10	Client Sample Name: JPL GW, MW19-2, 10/24/2022 1:10:00PM
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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	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	0.49	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: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225521-10 **Client Sample Name:** JPL GW, MW19-2, 10/24/2022 1:10:00PM

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)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	100	%	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	10/28/22 09:00	10/29/22 01:17	MGC	MS-V5	1	B152497	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
 3761 Attucks Drive
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Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225521-10	Client Sample Name: JPL GW, MW19-2, 10/24/2022 1:10:00PM
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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	10/28/22 09:00	10/29/22	01:17	MGC	MS-V5	1	B152497	EPA 524.2

DCN = Data Continuation Number

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Reported: 11/21/2022 9:44
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225521-10	Client Sample Name: JPL GW, MW19-2, 10/24/2022 1:10:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	2.2	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	11/08/22 17:00	11/08/22 23:43	SAV	IC6	1	B153451	No Prep

DCN = Data Continuation Number

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Reported: 11/21/2022 9:44
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225521-10	Client Sample Name: JPL GW, MW19-2, 10/24/2022 1:10:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00023	mg/L	0.00020	0.000020	EPA-218.6	0.00013		1
Total Recoverable Chromium	3.4	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	10/25/22 18:00	10/26/22	14:18	RC1	IC-4	1	B152321	No Prep
2	EPA-200.8	11/03/22 12:45	11/04/22	13:21	KHS	PE-EL4	1	B153064	EPA 200.2

DCN = Data Continuation Number

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Tidewater Inc. - Powell
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Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225521-11	Client Sample Name:	JPL GW, MW19-1, 10/24/2022 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	1.4	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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

Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225521-11	Client Sample Name:	JPL GW, MW19-1, 10/24/2022 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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Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225521-11 **Client Sample Name:** JPL GW, MW19-1, 10/24/2022 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	V11	1
Methyl isobutyl ketone	ND	ug/L	5.0	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.5	%	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	10/28/22 09:00	10/29/22 01:41	MGC	MS-V5	1	B152497	EPA 524.2

DCN = Data Continuation Number

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Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225521-11	Client Sample Name: JPL GW, MW19-1, 10/24/2022 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	10/28/22 09:00	10/29/22	01:41	MGC	MS-V5	1	B152497	EPA 524.2

DCN = Data Continuation Number



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Reported: 11/21/2022 9:44
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225521-11	Client Sample Name: JPL GW, MW19-1, 10/24/2022 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	11/08/22 17:00	11/08/22 23:58	SAV	IC6	1	B153451	No Prep

DCN = Data Continuation Number

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Reported: 11/21/2022 9:44
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225521-11	Client Sample Name: JPL GW, MW19-1, 10/24/2022 1:45:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00020	mg/L	0.00020	0.000020	EPA-218.6	0.00013		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	10/25/22 18:00	10/26/22	14:27	RC1	IC-4	1	B152321	No Prep
2	EPA-200.8	11/03/22 12:45	11/04/22	13:23	KHS	PE-EL4	1	B153064	EPA 200.2

DCN = Data Continuation Number

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Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225521-12	Client Sample Name:	JPL GW, EB-1-102422, 10/24/2022 1:55:00PM						
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: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225521-12 **Client Sample Name:** JPL GW, EB-1-102422, 10/24/2022 1:55:00PM

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: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225521-12 **Client Sample Name:** JPL GW, EB-1-102422, 10/24/2022 1:55:00PM

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)	99.9	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.5	%	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	10/28/22 09:00	10/29/22 02:05	MGC	MS-V5	1	B152497	EPA 524.2

DCN = Data Continuation Number



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

Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225521-12	Client Sample Name: JPL GW, EB-1-102422, 10/24/2022 1:55:00PM
---------------------------	---

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	10/28/22 09:00	10/29/22	02:05	MGC	MS-V5	1	B152497	EPA 524.2

DCN = Data Continuation Number

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Reported: 11/21/2022 9:44
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225521-12	Client Sample Name: JPL GW, EB-1-102422, 10/24/2022 1:55:00PM
----------------------------------	--

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	11/11/22 08:00	11/11/22 10:17	SAV	IC6	1	B153645	No Prep

DCN = Data Continuation Number

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Reported: 11/21/2022 9:44
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225521-12	Client Sample Name: JPL GW, EB-1-102422, 10/24/2022 1:55:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.000076	mg/L	0.00020	0.000020	EPA-218.6	0.00013	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	10/25/22 18:00	10/26/22	14:37	RC1	IC-4	1	B152321	No Prep
2	EPA-200.8	11/03/22 12:45	11/04/22	12:27	KHS	PE-EL4	1	B153065	EPA 200.2

DCN = Data Continuation Number

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Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225521-13 **Client Sample Name:** JPL GW, SB-1-102422, 10/24/2022 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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Tidewater Inc. - Powell
 3761 Attucks Drive
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Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225521-13 **Client Sample Name:** JPL GW, SB-1-102422, 10/24/2022 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: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225521-13 **Client Sample Name:** JPL GW, SB-1-102422, 10/24/2022 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	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)	98.8	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	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	10/28/22 09:00	10/29/22 02:29	MGC	MS-V5	1	B152497	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
 3761 Attucks Drive
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Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225521-13	Client Sample Name: JPL GW, SB-1-102422, 10/24/2022 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	10/28/22 09:00	10/29/22	02:29	MGC	MS-V5	1	B152497	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 11/21/2022 9:44
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225521-13	Client Sample Name: JPL GW, SB-1-102422, 10/24/2022 2:00:00PM
----------------------------------	--

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	11/11/22 08:00	11/11/22 11:18	SAV	IC6	1	B153645	No Prep

DCN = Data Continuation Number

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Reported: 11/21/2022 9:44
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225521-13	Client Sample Name: JPL GW, SB-1-102422, 10/24/2022 2:00:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.000052	mg/L	0.00020	0.000020	EPA-218.6	0.00013	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	10/25/22	18:00	10/26/22	14:46	RC1	IC-4	1	B152321	No Prep
2	EPA-200.8	11/03/22	12:45	11/04/22	12:29	KHS	PE-EL4	1	B153065	EPA 200.2

DCN = Data Continuation Number

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Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 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	Run #
QC Batch ID: B152497							
Benzene	B152497-BLK1	ND	ug/L	0.50	0.11		1
Bromobenzene	B152497-BLK1	ND	ug/L	0.50	0.15		1
Bromochloromethane	B152497-BLK1	ND	ug/L	0.50	0.27		1
Bromodichloromethane	B152497-BLK1	ND	ug/L	0.50	0.20		1
Bromoform	B152497-BLK1	ND	ug/L	0.50	0.46		1
Bromomethane	B152497-BLK1	ND	ug/L	0.50	0.20		1
n-Butylbenzene	B152497-BLK1	ND	ug/L	0.50	0.15		1
sec-Butylbenzene	B152497-BLK1	ND	ug/L	0.50	0.13		1
tert-Butylbenzene	B152497-BLK1	ND	ug/L	0.50	0.18		1
Carbon tetrachloride	B152497-BLK1	ND	ug/L	0.50	0.17		1
Chlorobenzene	B152497-BLK1	ND	ug/L	0.50	0.14		1
Chloroethane	B152497-BLK1	ND	ug/L	0.50	0.17		1
Chloroform	B152497-BLK1	ND	ug/L	0.50	0.14		1
Chloromethane	B152497-BLK1	ND	ug/L	0.50	0.11		1
2-Chlorotoluene	B152497-BLK1	ND	ug/L	0.50	0.14		1
4-Chlorotoluene	B152497-BLK1	ND	ug/L	0.50	0.093		1
Dibromochloromethane	B152497-BLK1	ND	ug/L	0.50	0.22		1
1,2-Dibromo-3-chloropropane	B152497-BLK1	ND	ug/L	1.0	0.89		1
1,2-Dibromoethane	B152497-BLK1	ND	ug/L	0.50	0.22		1
Dibromomethane	B152497-BLK1	ND	ug/L	0.50	0.23		1
1,2-Dichlorobenzene	B152497-BLK1	ND	ug/L	0.50	0.21		1
1,3-Dichlorobenzene	B152497-BLK1	ND	ug/L	0.50	0.16		1
1,4-Dichlorobenzene	B152497-BLK1	ND	ug/L	0.50	0.15		1
Dichlorodifluoromethane	B152497-BLK1	ND	ug/L	0.50	0.15		1
1,1-Dichloroethane	B152497-BLK1	ND	ug/L	0.50	0.15		1
1,2-Dichloroethane	B152497-BLK1	ND	ug/L	0.50	0.17		1
1,1-Dichloroethene	B152497-BLK1	ND	ug/L	0.50	0.27		1
cis-1,2-Dichloroethene	B152497-BLK1	ND	ug/L	0.50	0.27		1
trans-1,2-Dichloroethene	B152497-BLK1	ND	ug/L	0.50	0.17		1
1,2-Dichloropropane	B152497-BLK1	ND	ug/L	0.50	0.15		1
1,3-Dichloropropane	B152497-BLK1	ND	ug/L	0.50	0.13		1
2,2-Dichloropropane	B152497-BLK1	ND	ug/L	0.50	0.18		1
1,1-Dichloropropene	B152497-BLK1	ND	ug/L	0.50	0.19		1
cis-1,3-Dichloropropene	B152497-BLK1	ND	ug/L	0.50	0.14		1

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 Powell, OH 43065

Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 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	Run #
QC Batch ID: B152497							
trans-1,3-Dichloropropene	B152497-BLK1	ND	ug/L	0.50	0.13		1
Ethylbenzene	B152497-BLK1	ND	ug/L	0.50	0.15		1
Hexachlorobutadiene	B152497-BLK1	ND	ug/L	0.50	0.20		1
Isopropylbenzene	B152497-BLK1	ND	ug/L	0.50	0.14		1
p-Isopropyltoluene	B152497-BLK1	ND	ug/L	0.50	0.14		1
Methylene chloride	B152497-BLK1	ND	ug/L	0.50	0.21		1
Methyl t-butyl ether	B152497-BLK1	ND	ug/L	0.50	0.14		1
Naphthalene	B152497-BLK1	ND	ug/L	0.50	0.16		1
n-Propylbenzene	B152497-BLK1	ND	ug/L	0.50	0.12		1
Styrene	B152497-BLK1	ND	ug/L	0.50	0.12		1
1,1,1,2-Tetrachloroethane	B152497-BLK1	ND	ug/L	0.50	0.21		1
1,1,1,2,2-Tetrachloroethane	B152497-BLK1	ND	ug/L	0.50	0.17		1
Tetrachloroethene	B152497-BLK1	ND	ug/L	0.50	0.23		1
Toluene	B152497-BLK1	ND	ug/L	0.50	0.17		1
1,2,3-Trichlorobenzene	B152497-BLK1	ND	ug/L	0.50	0.19		1
1,2,4-Trichlorobenzene	B152497-BLK1	ND	ug/L	0.50	0.15		1
1,1,1-Trichloroethane	B152497-BLK1	ND	ug/L	0.50	0.21		1
1,1,2-Trichloroethane	B152497-BLK1	ND	ug/L	0.50	0.21		1
Trichloroethene	B152497-BLK1	ND	ug/L	0.50	0.19		1
Trichlorofluoromethane	B152497-BLK1	ND	ug/L	0.50	0.14		1
1,2,3-Trichloropropane	B152497-BLK1	ND	ug/L	1.0	0.78		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B152497-BLK1	ND	ug/L	0.50	0.19		1
1,2,4-Trimethylbenzene	B152497-BLK1	ND	ug/L	0.50	0.17		1
1,3,5-Trimethylbenzene	B152497-BLK1	ND	ug/L	0.50	0.14		1
Vinyl chloride	B152497-BLK1	ND	ug/L	0.50	0.18		1
Acetone	B152497-BLK1	ND	ug/L	10	6.6		1
Acrylonitrile	B152497-BLK1	ND	ug/L	5.0	1.5		1
Allyl chloride	B152497-BLK1	ND	ug/L	5.0	0.47		1
t-Amyl Methyl ether	B152497-BLK1	ND	ug/L	0.50	0.19		1
t-Butyl alcohol	B152497-BLK1	ND	ug/L	2.0	2.0		1
Carbon disulfide	B152497-BLK1	ND	ug/L	0.50	0.48		1
trans-1,4-Dichloro-2-butene	B152497-BLK1	ND	ug/L	5.0	1.8		1
Diethyl ether	B152497-BLK1	ND	ug/L	2.0	0.33		1
Ethyl methacrylate	B152497-BLK1	ND	ug/L	4.0	1.3		1

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

Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 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	Run #
QC Batch ID: B152497							
Ethyl t-butyl ether	B152497-BLK1	ND	ug/L	0.50	0.32		1
Hexachloroethane	B152497-BLK1	ND	ug/L	0.50	0.11		1
2-Hexanone	B152497-BLK1	ND	ug/L	10	5.0		1
Methacrylonitrile	B152497-BLK1	ND	ug/L	10	2.3		1
Methyl ethyl ketone	B152497-BLK1	ND	ug/L	5.0	3.3		1
Methyl iodide	B152497-BLK1	ND	ug/L	2.0	1.1		1
Methyl isobutyl ketone	B152497-BLK1	ND	ug/L	5.0	2.4		1
Methyl methacrylate	B152497-BLK1	ND	ug/L	5.0	1.2		1
Pentachloroethane	B152497-BLK1	ND	ug/L	2.0	0.63		1
Propionitrile	B152497-BLK1	ND	ug/L	20	6.2		1
Tetrahydrofuran	B152497-BLK1	ND	ug/L	20	5.2		1
p- & m-Xylenes	B152497-BLK1	ND	ug/L	0.50	0.34		1
o-Xylene	B152497-BLK1	ND	ug/L	0.50	0.13		1
1,2-Dichloroethane-d4 (Surrogate)	B152497-BLK1	97.4	%	75 - 125 (LCL - UCL)			1
Toluene-d8 (Surrogate)	B152497-BLK1	98.8	%	80 - 120 (LCL - UCL)			1
4-Bromofluorobenzene (Surrogate)	B152497-BLK1	99.2	%	80 - 120 (LCL - UCL)			1

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

Reported: 11/21/2022 9:44
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22 10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22 10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22 10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22 10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22 10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22 10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22 10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22 10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22 10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22 10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22 10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22 10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22 10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22 10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22 10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22 10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22 10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22 10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22 10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22 10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22 10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22 10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22 10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22 10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22 10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22 10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22 10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22 10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22 10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22 10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22 10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22 10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22 10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22 10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22 10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22 10:06	MGC	MS-V5	1

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

Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 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	Run #
								Percent Recovery	RPD		
QC Batch ID: B152497											
Benzene	B152497-BS1	LCS	21.890	25.000	ug/L	87.6		70 - 130			1
Bromodichloromethane	B152497-BS1	LCS	27.110	25.000	ug/L	108		70 - 130			1
Chlorobenzene	B152497-BS1	LCS	24.490	25.000	ug/L	98.0		70 - 130			1
Chloroethane	B152497-BS1	LCS	23.510	25.000	ug/L	94.0		70 - 130			1
1,4-Dichlorobenzene	B152497-BS1	LCS	26.230	25.000	ug/L	105		70 - 130			1
1,1-Dichloroethane	B152497-BS1	LCS	22.130	25.000	ug/L	88.5		70 - 130			1
1,1-Dichloroethene	B152497-BS1	LCS	24.170	25.000	ug/L	96.7		70 - 130			1
Toluene	B152497-BS1	LCS	23.860	25.000	ug/L	95.4		70 - 130			1
Trichloroethene	B152497-BS1	LCS	23.100	25.000	ug/L	92.4		70 - 130			1
1,2-Dichloroethane-d4 (Surrogate)	B152497-BS1	LCS	9.4800	10.000	ug/L	94.8		75 - 125			1
Toluene-d8 (Surrogate)	B152497-BS1	LCS	9.8700	10.000	ug/L	98.7		80 - 120			1
4-Bromofluorobenzene (Surrogate)	B152497-BS1	LCS	9.9800	10.000	ug/L	99.8		80 - 120			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B152497-BS1	LCS	EPA-524.2	10/28/22	10/28/22	14:30	MGC	MS-V5	1
1	B152497-BS1	LCS	EPA-524.2	10/28/22	10/28/22	14:30	MGC	MS-V5	1
1	B152497-BS1	LCS	EPA-524.2	10/28/22	10/28/22	14:30	MGC	MS-V5	1
1	B152497-BS1	LCS	EPA-524.2	10/28/22	10/28/22	14:30	MGC	MS-V5	1
1	B152497-BS1	LCS	EPA-524.2	10/28/22	10/28/22	14:30	MGC	MS-V5	1
1	B152497-BS1	LCS	EPA-524.2	10/28/22	10/28/22	14:30	MGC	MS-V5	1
1	B152497-BS1	LCS	EPA-524.2	10/28/22	10/28/22	14:30	MGC	MS-V5	1
1	B152497-BS1	LCS	EPA-524.2	10/28/22	10/28/22	14:30	MGC	MS-V5	1
1	B152497-BS1	LCS	EPA-524.2	10/28/22	10/28/22	14:30	MGC	MS-V5	1
1	B152497-BS1	LCS	EPA-524.2	10/28/22	10/28/22	14:30	MGC	MS-V5	1
1	B152497-BS1	LCS	EPA-524.2	10/28/22	10/28/22	14:30	MGC	MS-V5	1
1	B152497-BS1	LCS	EPA-524.2	10/28/22	10/28/22	14:30	MGC	MS-V5	1
1	B152497-BS1	LCS	EPA-524.2	10/28/22	10/28/22	14:30	MGC	MS-V5	1
1	B152497-BS1	LCS	EPA-524.2	10/28/22	10/28/22	14:30	MGC	MS-V5	1
1	B152497-BS1	LCS	EPA-524.2	10/28/22	10/28/22	14:30	MGC	MS-V5	1

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

Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 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	R#
									RPD	Percent Recovery		
QC Batch ID: B152497		Used client sample: Y - Description: MW19-3, 10/24/2022 12:45										
Benzene	MS	2225521-09	ND	22.910	25.000	ug/L		91.6		70 - 130		1
	MSD	2225521-09	ND	22.310	25.000	ug/L	2.7	89.2	20	70 - 130		2
Bromodichloromethane	MS	2225521-09	ND	28.170	25.000	ug/L		113		70 - 130		1
	MSD	2225521-09	ND	28.160	25.000	ug/L	0.0	113	20	70 - 130		2
Chlorobenzene	MS	2225521-09	ND	25.380	25.000	ug/L		102		70 - 130		1
	MSD	2225521-09	ND	24.730	25.000	ug/L	2.6	98.9	20	70 - 130		2
Chloroethane	MS	2225521-09	ND	24.830	25.000	ug/L		99.3		70 - 130		1
	MSD	2225521-09	ND	23.570	25.000	ug/L	5.2	94.3	20	70 - 130		2
1,4-Dichlorobenzene	MS	2225521-09	ND	27.470	25.000	ug/L		110		70 - 130		1
	MSD	2225521-09	ND	26.550	25.000	ug/L	3.4	106	20	70 - 130		2
1,1-Dichloroethane	MS	2225521-09	ND	22.960	25.000	ug/L		91.8		70 - 130		1
	MSD	2225521-09	ND	22.590	25.000	ug/L	1.6	90.4	20	70 - 130		2
1,1-Dichloroethene	MS	2225521-09	ND	25.580	25.000	ug/L		102		70 - 130		1
	MSD	2225521-09	ND	24.020	25.000	ug/L	6.3	96.1	20	70 - 130		2
Toluene	MS	2225521-09	ND	24.850	25.000	ug/L		99.4		70 - 130		1
	MSD	2225521-09	ND	24.340	25.000	ug/L	2.1	97.4	20	70 - 130		2
Trichloroethene	MS	2225521-09	0.42000	24.900	25.000	ug/L		97.9		70 - 130		1
	MSD	2225521-09	0.42000	24.650	25.000	ug/L	1.0	96.9	20	70 - 130		2
1,2-Dichloroethane-d4 (Surrogate)	MS	2225521-09	ND	9.4100	10.000	ug/L		94.1		75 - 125		1
	MSD	2225521-09	ND	9.6000	10.000	ug/L	2.0	96.0		75 - 125		2
Toluene-d8 (Surrogate)	MS	2225521-09	ND	9.7200	10.000	ug/L		97.2		80 - 120		1
	MSD	2225521-09	ND	9.9500	10.000	ug/L	2.3	99.5		80 - 120		2
4-Bromofluorobenzene (Surrogate)	MS	2225521-09	ND	9.8500	10.000	ug/L		98.5		80 - 120		1
	MSD	2225521-09	ND	10.010	10.000	ug/L	1.6	100		80 - 120		2

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Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B152497-MS1	MS	EPA-524.2	10/28/22	10/28/22 14:54	MGC	MS-V5	1
1	B152497-MS1	MS	EPA-524.2	10/28/22	10/28/22 14:54	MGC	MS-V5	1
1	B152497-MS1	MS	EPA-524.2	10/28/22	10/28/22 14:54	MGC	MS-V5	1
1	B152497-MS1	MS	EPA-524.2	10/28/22	10/28/22 14:54	MGC	MS-V5	1
1	B152497-MS1	MS	EPA-524.2	10/28/22	10/28/22 14:54	MGC	MS-V5	1
1	B152497-MS1	MS	EPA-524.2	10/28/22	10/28/22 14:54	MGC	MS-V5	1
1	B152497-MS1	MS	EPA-524.2	10/28/22	10/28/22 14:54	MGC	MS-V5	1
1	B152497-MS1	MS	EPA-524.2	10/28/22	10/28/22 14:54	MGC	MS-V5	1
1	B152497-MS1	MS	EPA-524.2	10/28/22	10/28/22 14:54	MGC	MS-V5	1
1	B152497-MS1	MS	EPA-524.2	10/28/22	10/28/22 14:54	MGC	MS-V5	1
1	B152497-MS1	MS	EPA-524.2	10/28/22	10/28/22 14:54	MGC	MS-V5	1
2	B152497-MSD1	MSD	EPA-524.2	10/28/22	10/28/22 15:17	MGC	MS-V5	1
2	B152497-MSD1	MSD	EPA-524.2	10/28/22	10/28/22 15:17	MGC	MS-V5	1
2	B152497-MSD1	MSD	EPA-524.2	10/28/22	10/28/22 15:17	MGC	MS-V5	1
2	B152497-MSD1	MSD	EPA-524.2	10/28/22	10/28/22 15:17	MGC	MS-V5	1
2	B152497-MSD1	MSD	EPA-524.2	10/28/22	10/28/22 15:17	MGC	MS-V5	1
2	B152497-MSD1	MSD	EPA-524.2	10/28/22	10/28/22 15:17	MGC	MS-V5	1
2	B152497-MSD1	MSD	EPA-524.2	10/28/22	10/28/22 15:17	MGC	MS-V5	1
2	B152497-MSD1	MSD	EPA-524.2	10/28/22	10/28/22 15:17	MGC	MS-V5	1
2	B152497-MSD1	MSD	EPA-524.2	10/28/22	10/28/22 15:17	MGC	MS-V5	1
2	B152497-MSD1	MSD	EPA-524.2	10/28/22	10/28/22 15:17	MGC	MS-V5	1
2	B152497-MSD1	MSD	EPA-524.2	10/28/22	10/28/22 15:17	MGC	MS-V5	1
2	B152497-MSD1	MSD	EPA-524.2	10/28/22	10/28/22 15:17	MGC	MS-V5	1
2	B152497-MSD1	MSD	EPA-524.2	10/28/22	10/28/22 15:17	MGC	MS-V5	1

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

Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 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	Run #
QC Batch ID: B152497							
Nitrobenzene	B152497-BLK1	0	ug/L				1
Methyl acrylate	B152497-BLK1	0	ug/L				1
Chloroacetonitrile	B152497-BLK1	0	ug/L				1
2-Nitropropane	B152497-BLK1	0	ug/L				1
1-Chlorobutane	B152497-BLK1	0	ug/L				1
1,1-Dichloropropanone	B152497-BLK1	0	ug/L				1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22	10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22	10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22	10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22	10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22	10:06	MGC	MS-V5	1
1	B152497-BLK1	PB	EPA-524.2	10/28/22	10/28/22	10:06	MGC	MS-V5	1

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

Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 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	Run #
-------------	--------------	-----------	-------	-----	-----	-----------	-------

QC Batch ID: B153451

Perchlorate	B153451-BLK1	ND	ug/L	2.0	0.81		1
-------------	--------------	----	------	-----	------	--	---

QC Batch ID: B153645

Perchlorate	B153645-BLK1	ND	ug/L	2.0	0.81		2
-------------	--------------	----	------	-----	------	--	---

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B153451-BLK1	PB	EPA-314.0	11/08/22	11/08/22 19:53	SAV	IC6	1
2	B153645-BLK1	PB	EPA-314.0	11/11/22	11/11/22 09:31	SAV	IC6	1

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

Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 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	Run #
								Percent Recovery	RPD		
QC Batch ID: B153451											
Perchlorate	B153451-BS1	LCS	9.5537	10.000	ug/L	95.5		85 - 115			1
QC Batch ID: B153645											
Perchlorate	B153645-BS1	LCS	9.2869	10.000	ug/L	92.9		85 - 115			2
	B153645-BSD1	LCSD	10.373	10.000	ug/L	104	11.1	85 - 115	15		3

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B153451-BS1	LCS	EPA-314.0	11/08/22	11/08/22	20:08	SAV	IC6	1
2	B153645-BS1	LCS	EPA-314.0	11/11/22	11/11/22	09:46	SAV	IC6	1
3	B153645-BSD1	LCSD	EPA-314.0	11/11/22	11/11/22	10:01	SAV	IC6	1

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Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Source Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals	R#
									RPD	Percent Recovery		
QC Batch ID: B153451		Used client sample: Y - Description: MW19-3, 10/24/2022 12:45										
Perchlorate	DUP	2225521-09	3.7288	3.7754		ug/L	1.2		15			1
	MS	2225521-09	3.7288	13.010	10.000	ug/L		92.8		80 - 120		2
	MSD	2225521-09	3.7288	13.248	10.000	ug/L	1.8	95.2	15	80 - 120		3

QC Batch ID: B153645		Used client sample: Y - Description: EB-1-102422, 10/24/2022 13:55										
Perchlorate	DUP	2225521-12	ND	ND		ug/L			15			4
	MS	2225521-12	ND	10.185	10.101	ug/L		101		80 - 120		5
	MSD	2225521-12	ND	10.748	10.101	ug/L	5.4	106	15	80 - 120		6

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B153451-DUP1	DUP	EPA-314.0	11/08/22	11/08/22	20:39	SAV	IC6	1
2	B153451-MS1	MS	EPA-314.0	11/08/22	11/08/22	20:54	SAV	IC6	1
3	B153451-MSD1	MSD	EPA-314.0	11/08/22	11/08/22	21:09	SAV	IC6	1
4	B153645-DUP1	DUP	EPA-314.0	11/11/22	11/11/22	10:32	SAV	IC6	1
5	B153645-MS1	MS	EPA-314.0	11/11/22	11/11/22	10:47	SAV	IC6	1.010
6	B153645-MSD1	MSD	EPA-314.0	11/11/22	11/11/22	11:03	SAV	IC6	1.010

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Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B152320							
Hexavalent Chromium	B152320-BLK1	ND	mg/L	0.00020	0.000020		1
QC Batch ID: B152321							
Hexavalent Chromium	B152321-BLK1	0.00012700	mg/L	0.00020	0.000020	J,M02	2
QC Batch ID: B153064							
Total Recoverable Chromium	B153064-BLK1	ND	ug/L	3.0	0.50		3
QC Batch ID: B153065							
Total Recoverable Chromium	B153065-BLK1	ND	ug/L	3.0	0.50		4

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B152320-BLK1	PB	EPA-218.6	10/25/22	10/26/22 10:18	RC1	IC-4	1
2	B152321-BLK1	PB	EPA-218.6	10/25/22	10/26/22 13:01	RC1	IC-4	1
3	B153064-BLK1	PB	EPA-200.8	11/03/22	11/04/22 12:48	KHS	PE-EL4	1
4	B153065-BLK1	PB	EPA-200.8	11/03/22	11/04/22 11:43	KHS	PE-EL4	1

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Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 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	Run #
								Percent Recovery	RPD		
QC Batch ID: B152320											
Hexavalent Chromium	B152320-BS1	LCS	0.019792	0.020000	mg/L	99.0		90 - 110			1
QC Batch ID: B152321											
Hexavalent Chromium	B152321-BS1	LCS	0.019598	0.020000	mg/L	98.0		90 - 110			2
QC Batch ID: B153064											
Total Recoverable Chromium	B153064-BS1	LCS	44.428	40.000	ug/L	111		85 - 115			3
QC Batch ID: B153065											
Total Recoverable Chromium	B153065-BS1	LCS	39.989	40.000	ug/L	100		85 - 115			4

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B152320-BS1	LCS	EPA-218.6	10/25/22	10/26/22	16:03	RC1	IC-4	1
2	B152321-BS1	LCS	EPA-218.6	10/25/22	10/26/22	13:11	RC1	IC-4	1
3	B153064-BS1	LCS	EPA-200.8	11/03/22	11/04/22	12:56	KHS	PE-EL4	1
4	B153065-BS1	LCS	EPA-200.8	11/03/22	11/04/22	11:51	KHS	PE-EL4	1

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Tidewater Inc. - Powell
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 Powell, OH 43065

Reported: 11/21/2022 9:44
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 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	R#
									RPD	Percent Recovery		
QC Batch ID: B152320		Used client sample: Y - Description: MW-20-5, 10/24/2022 08:30										
Hexavalent Chromium	DUP	2225521-02	0.00015400	0.00016300		mg/L	5.7		10		J	1
	MS	2225521-02	0.00015400	0.020255	0.020202	mg/L		99.5		90 - 110		2
	MSD	2225521-02	0.00015400	0.019824	0.020202	mg/L	2.1	97.4	10	90 - 110		3
QC Batch ID: B152321		Used client sample: Y - Description: MW19-3, 10/24/2022 12:45										
Hexavalent Chromium	DUP	2225521-09	0.0013730	0.0013360		mg/L	2.7		10			4
	MS	2225521-09	0.0013730	0.021535	0.020202	mg/L		99.8		90 - 110		5
	MSD	2225521-09	0.0013730	0.021542	0.020202	mg/L	0.0	99.8	10	90 - 110		6
QC Batch ID: B153064		Used client sample: Y - Description: MW19-3, 10/24/2022 12:45										
Total Recoverable Chromium	DUP	2225521-09	2.1840	2.0000		ug/L	8.8		20		J	7
	MS	2225521-09	2.1840	45.469	40.000	ug/L		108		70 - 130		8
	MSD	2225521-09	2.1840	43.527	40.000	ug/L	4.4	103	20	70 - 130		9
QC Batch ID: B153065		Used client sample: N										
Total Recoverable Chromium	DUP	2226046-01	ND	ND		ug/L			20			10
	MS	2226046-01	ND	39.630	40.000	ug/L		99.1		70 - 130		11
	MSD	2226046-01	ND	37.775	40.000	ug/L	4.8	94.4	20	70 - 130		12

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B152320-DUP1	DUP	EPA-218.6	10/25/22	10/26/22	10:47	RC1	IC-4	1
2	B152320-MS1	MS	EPA-218.6	10/25/22	10/26/22	16:22	RC1	IC-4	1.010
3	B152320-MSD1	MSD	EPA-218.6	10/25/22	10/26/22	16:32	RC1	IC-4	1.010
4	B152321-DUP1	DUP	EPA-218.6	10/25/22	10/26/22	16:13	RC1	IC-4	1
5	B152321-MS1	MS	EPA-218.6	10/25/22	10/26/22	13:39	RC1	IC-4	1.010
6	B152321-MSD1	MSD	EPA-218.6	10/25/22	10/26/22	14:08	RC1	IC-4	1.010
7	B153064-DUP1	DUP	EPA-200.8	11/03/22	11/04/22	12:52	KHS	PE-EL4	1
8	B153064-MS1	MS	EPA-200.8	11/03/22	11/04/22	12:58	KHS	PE-EL4	1
9	B153064-MSD1	MSD	EPA-200.8	11/03/22	11/04/22	13:00	KHS	PE-EL4	1
10	B153065-DUP1	DUP	EPA-200.8	11/03/22	11/04/22	11:47	KHS	PE-EL4	1
11	B153065-MS1	MS	EPA-200.8	11/03/22	11/04/22	11:53	KHS	PE-EL4	1
12	B153065-MSD1	MSD	EPA-200.8	11/03/22	11/04/22	11:54	KHS	PE-EL4	1

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

Reported: 11/21/2022 9:44
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
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: 12/05/2022

David Conner

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

Client Project: 4Q22
BCL Project: JPL- GW Monitoring Wells-CLP
BCL Work Order: 2225756
Invoice ID: B463806

Enclosed are the results of analyses for samples received by the laboratory on 10/26/2022. If you have any questions concerning this report, please feel free to contact me.

Revised Report: This report supercedes Report ID 1001368417

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 2225756

Revised report to include Sulfate on 2225756-12.



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

Reported: 12/05/2022 9:13
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Case Narrative

Sample Receipt

COC Number:

Samples received refrigerated to 0.6 °C

Sample List

<u>Lab Number</u>	<u>Date/Time Sampled</u>	<u>Sample Name</u>
2225756-01	10/26/2022 07:00	TB-3-102622
2225756-02	10/26/2022 08:20	MW-22-5
2225756-03	10/26/2022 09:00	MW-22-4
2225756-04	10/26/2022 09:20	MW-22-3
2225756-05	10/26/2022 09:45	MW-22-2
2225756-06	10/26/2022 09:55	DUP-4-4Q22
2225756-07	10/26/2022 11:20	MW-24-5
2225756-08	10/26/2022 11:50	MW-24-4
2225756-09	10/26/2022 12:15	MW-24-3
2225756-10	10/26/2022 13:10	MW-24-2
2225756-11	10/26/2022 13:20	DUP-5-4Q22
2225756-12	10/26/2022 13:50	MW-24-1
2225756-13	10/26/2022 14:00	EB-3-102622

Requested Analysis

EPA-200.8 (TRM), EPA-218.6, EPA-300.0, EPA-314.0, EPA-353.2, EPA-365.1, EPA-524.2

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



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

Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Case Narrative

<u>Sample</u>	<u>Analyte</u>	<u>Flag</u>
Sample Qualifier Summary		
2225756-01	EPA-524.2 Bromomethane	V11
2225756-01	EPA-524.2 Allyl chloride	V11
2225756-01	EPA-524.2 Carbon disulfide	V11
2225756-01	EPA-524.2 trans-1,4-Dichloro-2-butene	V11
2225756-01	EPA-524.2 Methyl iodide	V11
2225756-01	EPA-524.2 Pentachloroethane	V11
2225756-02	EPA-524.2 Bromomethane	V11
2225756-02	EPA-524.2 Allyl chloride	V11
2225756-02	EPA-524.2 Carbon disulfide	V11
2225756-02	EPA-524.2 trans-1,4-Dichloro-2-butene	V11
2225756-02	EPA-524.2 Methyl iodide	V11
2225756-02	EPA-524.2 Pentachloroethane	V11
2225756-03	EPA-524.2 Bromomethane	V11
2225756-03	EPA-524.2 Allyl chloride	V11
2225756-03	EPA-524.2 Carbon disulfide	V11
2225756-03	EPA-524.2 trans-1,4-Dichloro-2-butene	V11
2225756-03	EPA-524.2 Methyl iodide	V11
2225756-03	EPA-524.2 Pentachloroethane	V11
2225756-04	EPA-524.2 Bromomethane	V11
2225756-04	EPA-524.2 Allyl chloride	V11
2225756-04	EPA-524.2 Carbon disulfide	V11
2225756-04	EPA-524.2 trans-1,4-Dichloro-2-butene	V11
2225756-04	EPA-524.2 Methyl iodide	V11
2225756-04	EPA-524.2 Pentachloroethane	V11
2225756-05	EPA-524.2 Bromomethane	V11
2225756-05	EPA-524.2 Allyl chloride	V11
2225756-05	EPA-524.2 Carbon disulfide	V11
2225756-05	EPA-524.2 trans-1,4-Dichloro-2-butene	V11
2225756-05	EPA-524.2 Methyl iodide	V11
2225756-05	EPA-524.2 Pentachloroethane	V11
2225756-06	EPA-524.2 Bromomethane	V11
2225756-06	EPA-524.2 Allyl chloride	V11
2225756-06	EPA-524.2 Carbon disulfide	V11
2225756-06	EPA-524.2 trans-1,4-Dichloro-2-butene	V11
2225756-06	EPA-524.2 Methyl iodide	V11
2225756-06	EPA-524.2 Pentachloroethane	V11
2225756-07	EPA-524.2 Bromomethane	V11
2225756-07	EPA-524.2 Allyl chloride	V11
2225756-07	EPA-524.2 Carbon disulfide	V11

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

Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Case Narrative

<u>Sample</u>	<u>Analyte</u>	<u>Flag</u>
Sample Qualifier Summary		
2225756-07	EPA-524.2 trans-1,4-Dichloro-2-butene	V11
2225756-07	EPA-524.2 Methyl iodide	V11
2225756-07	EPA-524.2 Pentachloroethane	V11
2225756-08	EPA-524.2 Bromomethane	V11
2225756-08	EPA-524.2 Allyl chloride	V11
2225756-08	EPA-524.2 Carbon disulfide	V11
2225756-08	EPA-524.2 trans-1,4-Dichloro-2-butene	V11
2225756-08	EPA-524.2 Methyl iodide	V11
2225756-08	EPA-524.2 Pentachloroethane	V11
2225756-09	EPA-524.2 Bromomethane	V11
2225756-09	EPA-524.2 Allyl chloride	V11
2225756-09	EPA-524.2 Carbon disulfide	V11
2225756-09	EPA-524.2 trans-1,4-Dichloro-2-butene	V11
2225756-09	EPA-524.2 Methyl iodide	V11
2225756-09	EPA-524.2 Pentachloroethane	V11
2225756-10	EPA-524.2 Bromomethane	V11
2225756-10	EPA-524.2 Allyl chloride	V11
2225756-10	EPA-524.2 Carbon disulfide	V11
2225756-10	EPA-524.2 trans-1,4-Dichloro-2-butene	V11
2225756-10	EPA-524.2 Methyl iodide	V11
2225756-10	EPA-524.2 Pentachloroethane	V11
2225756-11	EPA-524.2 Bromomethane	V11
2225756-11	EPA-524.2 Allyl chloride	V11
2225756-11	EPA-524.2 Carbon disulfide	V11
2225756-11	EPA-524.2 trans-1,4-Dichloro-2-butene	V11
2225756-11	EPA-524.2 Methyl iodide	V11
2225756-11	EPA-524.2 Pentachloroethane	V11
2225756-12	EPA-524.2 Bromomethane	V11
2225756-12	EPA-524.2 Allyl chloride	V11
2225756-12	EPA-524.2 Carbon disulfide	V11
2225756-12	EPA-524.2 trans-1,4-Dichloro-2-butene	V11
2225756-12	EPA-524.2 Methyl iodide	V11
2225756-12	EPA-524.2 Pentachloroethane	V11
2225756-12RE1	EPA-314.0 Perchlorate	A10
2225756-13	EPA-524.2 Bromomethane	V11
2225756-13	EPA-524.2 Allyl chloride	V11
2225756-13	EPA-524.2 Carbon disulfide	V11
2225756-13	EPA-524.2 trans-1,4-Dichloro-2-butene	V11
2225756-13	EPA-524.2 Methyl iodide	V11

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

Reported: 12/05/2022 9:13
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Case Narrative

<u>Sample</u>	<u>Analyte</u>	<u>Flag</u>
Sample Qualifier Summary		
2225756-13	Pentachloroethane	V11
Holding Times		
All holding time requirements were met.		
Method Blanks		
B152489-BLK1	Chloride	0.18400 mg/L
B152489-BLK1	Sulfate	0.43700 mg/L
B152530-BLK1	Hexavalent Chromium	0.000025000 mg/L
B152788-BLK1	1,1-Dichloropropanone	0 ug/L
B152788-BLK1	1-Chlorobutane	0 ug/L
B152788-BLK1	2-Nitropropane	0 ug/L
B152788-BLK1	Chloroacetonitrile	0 ug/L
B152788-BLK1	Methyl acrylate	0 ug/L
B152788-BLK1	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

A10	Detection and quantitation limits were raised due to matrix interference.
V11	The Continuing Calibration Verification (CCV) recovery was not within established control limits.

Chain of Custody Form



Page 1 of 2

* Required Fields 22-25756

Report To: Tidewater, Inc.
 Client: Tidewater, Inc.
 Attn: David Conner
 Street Address: 3761 Attucks Drive
 City: Powell State: OH Zip: 43065
 Phone: 614 238-5715 Fax: 614 792-2897
 Email Address: david.conner@ltdh2o.net
 Submission #: _____

Project Description: JPL-GW Monitoring
 Project Code: 4Q22
 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?
 Yes No
 *Standard Turnaround = 10

Sample #	Sample Description	Date	Time	Matrix*	Analysis Requested									
					VOCs EPA 524.2	TRM-Cr	Perchlorate	Hexavalent Cr 6 - 218.6 (mg/L)	Cl, NO3, NO2, SO4	Orthophosphate 365.1				
-1	TB-3-102622	10/26/22	0700	W	X									
-2	MW-22-5		0820	W	X	X	X	X	X					
-3	MW-22-4		0900	W	X	X	X	X	X					
-4	MW-22-3		0920	W	X	X	X	X	X					
-5	MW-22-2		0945	W	X	X	X	X	X					
-6	DUP-4-4022		0955	W	X	X	X	X	X					
-7	MW-24-5		1120	W	X	X	X	X	X					
-8	MW-24-4		1150	W	X	X	X	X	X					
-9	MW-24-3		1215	W	X	X	X	X	X					
-10	MW-24-2		1310	W	X	X	X	X	X					
-11	DUP-5-4022		1320	W	X	X	X	X	X					

Notes:
 Laboratory please select 2 Spas for final IV Validation

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

CHK BY: DISTRIBUTION
 M = Miscellaneous J = Other
 M J

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: Cheryl Date: 10/24/22 Time: 1525
 2. Relinquished By: Nigel Date: 10/26/22 Time: 0630
 3. Relinquished By: _____ Date: _____ Time: _____

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

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

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*MAC-2A 10/26/22
CC-20-2*

Chain of Custody Form



22-25756

Page 2 of 2

Client: Tidewater, Inc. Attn: David Conner Street Address: 3761 Attucks Drive City: Powell State: OH Zip: 43065 Phone: 614 288 - 5715 Fax: 614 792 - 2897 Email Address: david.conner@tidewater.com		Project Description: JPL-GW Monitoring Project Code: 4022 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 <small>*Standard Turnaround = 10</small>	
Analysis Requested Orthophosphate 365.1 Cl, NO3, NO2, SO4 Hexavalent Cr6 - 218.6 (mg/L) Perchlorate TRM: Cr VOCs EPA 524.2		Matrix* W W		Notes <i>Laboratory, please select 2 SPS-5 for Level IV Validation</i>	
Sample # -17 -17	Sample Description MV-24-1 FB-3-102622	Date 10/26/22 V	Time 1350 1400		
Matrix Types: S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid M = Miscellaneous O = Other					
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 type="checkbox"/> 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: _____ Time: _____ 2. Relinquished By: _____ Date: 10/26/22 Time: 1525 3. Relinquished By: _____ Date: _____ Time: _____		Global ID: 1. Received By: _____ Date: 10/26/22 Time: 1525 2. Received By: _____ Date: _____ Time: _____ 3. Received By: _____ Date: 10/26/22 Time: 1730	

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 <u>1</u> of <u>2</u>	
Submission #: <u>22-25756</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) / 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>0.98</u> Container: <u>PE</u> Thermometer ID: <u>274</u> Temperature: (A) <u>0.8</u> °C / (C) <u>0.8</u> °C		Date/Time <u>10/29/22</u> 1830 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	D	D	D	D	D
2oz Cr*		E	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	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								
QT EPA 164B		A-C	A-C	A-C	A-C	A-C	A-C	A-C	A-C	A-C
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL - 504										
QT EPA 505/605/3081A										
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 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: JCP Date/Time: 10/29/22 1200
 A = Actual / C = Corrected

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>2</u> Of <u>2</u>						
Submission #: <u>22-25756</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: _____										
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>0.98</u> Container: <u>PE</u> Thermometer ID: <u>274</u>		Date/Time <u>10/26/22</u> 1830						
Temperature: (A) <u>0.6</u> °C / (C) <u>0.6</u> °C		Analyst Init <u>PRC</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							
2oz Cr ⁶⁺	E	E	E							
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz	F	F	F							
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PeA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A-C	A-C	A-C							
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 301SM										
QT EPA 8279C										
3oz / 16oz / 32oz AMBER										
3oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____ Date/Time: 10/27/22 1200 Rev 23 0512622
 Sample Numbering Completed By: JCP
 A = Actual / C = Corrected (S:\JRP\Doc\Verif\Perfor\LAB_DOC\FORMS\SAMREC\FV 20)



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

Reported: 12/05/2022 9:13
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2225756-01	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: TB-3-102622 Sampled By: Blaine Tech of BTST	Receive Date: 10/26/2022 18:30 Sampling Date: 10/26/2022 07:00 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-3-102622 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

2225756-02	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-22-5 Sampled By: Blaine Tech of BTST	Receive Date: 10/26/2022 18:30 Sampling Date: 10/26/2022 08:20 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-22-5 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

2225756-03	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-22-4 Sampled By: Blaine Tech of BTST	Receive Date: 10/26/2022 18:30 Sampling Date: 10/26/2022 09:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-22-4 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

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

Reported: 12/05/2022 9:13
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2225756-04	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-22-3 Sampled By: Blaine Tech of BTST	Receive Date: 10/26/2022 18:30 Sampling Date: 10/26/2022 09:20 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:
-------------------	---	---

2225756-05	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-22-2 Sampled By: Blaine Tech of BTST	Receive Date: 10/26/2022 18:30 Sampling Date: 10/26/2022 09:45 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:
-------------------	---	---

2225756-06	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: DUP-4-4Q22 Sampled By: Blaine Tech of BTST	Receive Date: 10/26/2022 18:30 Sampling Date: 10/26/2022 09:55 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): DUP-4-4Q22 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

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

Reported: 12/05/2022 9:13
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2225756-07	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-24-5 Sampled By: Blaine Tech of BTST	Receive Date: 10/26/2022 18:30 Sampling Date: 10/26/2022 11:20 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-24-5 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

2225756-08	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-24-4 Sampled By: Blaine Tech of BTST	Receive Date: 10/26/2022 18:30 Sampling Date: 10/26/2022 11:50 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-24-4 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

2225756-09	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-24-3 Sampled By: Blaine Tech of BTST	Receive Date: 10/26/2022 18:30 Sampling Date: 10/26/2022 12:15 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-24-3 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

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

Reported: 12/05/2022 9:13
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
2225756-10	COC Number:	---	Receive Date: 10/26/2022 18:30
	Project Number:	JPL	Sampling Date: 10/26/2022 13:10
	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:	
2225756-11	COC Number:	---	Receive Date: 10/26/2022 18:30
	Project Number:	JPL	Sampling Date: 10/26/2022 13:20
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	DUP-5-4Q22	Lab Matrix: Water
	Sampled By:	Blaine Tech of BTST	Sample Type: Water
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): DUP-5-4Q22
			Matrix: WG
			Sample QC Type (SACode): CS
		Cooler ID:	
2225756-12	COC Number:	---	Receive Date: 10/26/2022 18:30
	Project Number:	JPL	Sampling Date: 10/26/2022 13:50
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	MW-24-1	Lab Matrix: Water
	Sampled By:	Blaine Tech of BTST	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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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 12/05/2022 9:13
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2225756-13	COC Number:	---	Receive Date:	10/26/2022 18:30
	Project Number:	JPL	Sampling Date:	10/26/2022 14:00
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	EB-3-102622	Lab Matrix:	Water
	Sampled By:	Blaine Tech of BTST	Sample Type:	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): EB-3-102622	
			Matrix: WG	
			Sample QC Type (SACode): CS	
		Cooler ID:		

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

Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225756-01 **Client Sample Name:** JPL, TB-3-102622, 10/26/2022 7:00:00AM, 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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

Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225756-01	Client Sample Name:	JPL, TB-3-102622, 10/26/2022 7:00:00AM, 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	V11	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	V11	1	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1	

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

Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225756-01 **Client Sample Name:** JPL, TB-3-102622, 10/26/2022 7:00:00AM, 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)	90.9	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.7	%	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	11/03/22 11:31	11/03/22 18:55	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number

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 3761 Attucks Drive
 Powell, OH 43065

Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225756-01	Client Sample Name: JPL, TB-3-102622, 10/26/2022 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	11/03/22 11:31	11/03/22	18:55	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
 3761 Attucks Drive
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Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225756-02 **Client Sample Name:** JPL, MW-22-5, 10/26/2022 8:20:00AM, 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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 3761 Attucks Drive
 Powell, OH 43065

Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225756-02	Client Sample Name:	JPL, MW-22-5, 10/26/2022 8:20:00AM, 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	V11	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	V11	1	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1	

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

Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225756-02 **Client Sample Name:** JPL, MW-22-5, 10/26/2022 8:20:00AM, 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)	91.2	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.7	%	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	11/03/22 11:31	11/03/22 19:18	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number

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Tidewater Inc. - Powell
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 Powell, OH 43065

Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225756-02	Client Sample Name: JPL, MW-22-5, 10/26/2022 8:20:00AM, 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	11/03/22 11:31	11/03/22	19:18	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number



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

Reported: 12/05/2022 9:13
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225756-02	Client Sample Name: JPL, MW-22-5, 10/26/2022 8:20:00AM, 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	11/11/22 08:00	11/11/22 14:22	SAV	IC6	1	B153645	No Prep

DCN = Data Continuation Number

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Reported: 12/05/2022 9:13
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225756-02	Client Sample Name: JPL, MW-22-5, 10/26/2022 8:20:00AM, Blaine Tech
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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	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	10/28/22 14:00	10/28/22 16:02		RC1	IC-4	1	B152529	No Prep
2	EPA-200.8	11/09/22 10:05	11/09/22 14:54		KHS	PE-EL4	1	B153463	EPA 200.2

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Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225756-03 **Client Sample Name:** JPL, MW-22-4, 10/26/2022 9:00:00AM, 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225756-03	Client Sample Name:	JPL, MW-22-4, 10/26/2022 9:00:00AM, 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	V11	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	V11	1	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1	

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Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225756-03 **Client Sample Name:** JPL, MW-22-4, 10/26/2022 9:00:00AM, 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)	91.6	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.3	%	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	11/03/22 11:31	11/04/22 02:06	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number

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Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225756-03	Client Sample Name: JPL, MW-22-4, 10/26/2022 9:00:00AM, 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	11/03/22 11:31	11/04/22	02:06	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number

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Reported: 12/05/2022 9:13
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225756-03	Client Sample Name: JPL, MW-22-4, 10/26/2022 9:00:00AM, Blaine Tech
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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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	11/11/22 08:00	11/11/22 15:08	SAV	IC6	1	B153645	No Prep

DCN = Data Continuation Number

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Reported: 12/05/2022 9:13
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225756-03	Client Sample Name: JPL, MW-22-4, 10/26/2022 9:00:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.0025	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Chromium	3.0	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	10/28/22 14:00	10/28/22 16:31		RC1	IC-4	1	B152529	No Prep
2	EPA-200.8	11/09/22 21:20	11/10/22 12:45		KHS	PE-EL4	1	B153528	EPA 200.2

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Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225756-04 **Client Sample Name:** JPL, MW-22-3, 10/26/2022 9:20:00AM, 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225756-04 **Client Sample Name:** JPL, MW-22-3, 10/26/2022 9:20:00AM, 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	V11	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	V11	1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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

Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225756-04 **Client Sample Name:** JPL, MW-22-3, 10/26/2022 9:20:00AM, 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)	90.0	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	95.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.8	%	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	11/03/22 11:31	11/04/22 02:30	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number

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Tidewater Inc. - Powell
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Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225756-04	Client Sample Name: JPL, MW-22-3, 10/26/2022 9:20:00AM, 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	11/03/22 11:31	11/04/22	02:30	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 12/05/2022 9:13
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225756-04	Client Sample Name: JPL, MW-22-3, 10/26/2022 9:20:00AM, 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	11/11/22 08:00	11/11/22 15:24	SAV	IC6	1	B153645	No Prep

DCN = Data Continuation Number

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Tidewater Inc. - Powell
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Reported: 12/05/2022 9:13
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225756-04	Client Sample Name: JPL, MW-22-3, 10/26/2022 9:20:00AM, 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	2.3	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	10/28/22 14:00	10/28/22 14:00	10/28/22 16:40	KSA	IC-4	1	B152529	No Prep
2	EPA-200.8	11/09/22 21:20	11/09/22 21:20	11/10/22 13:04	KHS	PE-EL4	1	B153528	EPA 200.2

DCN = Data Continuation Number

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Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225756-05	Client Sample Name: JPL, MW-22-2, 10/26/2022 9:45:00AM, 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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 3761 Attucks Drive
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Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225756-05	Client Sample Name:	JPL, MW-22-2, 10/26/2022 9:45:00AM, 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	V11	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	V11	1	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1	

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

Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225756-05 **Client Sample Name:** JPL, MW-22-2, 10/26/2022 9:45:00AM, 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)	97.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.2	%	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	11/03/22 11:31	11/04/22 02:54	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number

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Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225756-05	Client Sample Name: JPL, MW-22-2, 10/26/2022 9:45:00AM, 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	11/03/22 11:31	11/04/22	02:54	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 12/05/2022 9:13
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225756-05	Client Sample Name: JPL, MW-22-2, 10/26/2022 9:45:00AM, Blaine Tech
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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	11/11/22 08:00	11/11/22 15:39	SAV	IC6	1	B153645	No Prep

DCN = Data Continuation Number

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Tidewater Inc. - Powell
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Reported: 12/05/2022 9:13
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225756-05	Client Sample Name: JPL, MW-22-2, 10/26/2022 9:45:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.0021	mg/L	0.00020	0.000020	EPA-218.6	0.000025		1
Total Recoverable Chromium	2.4	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	10/28/22 14:00	10/28/22	16:50	KSA	IC-4	1	B152530	No Prep
2	EPA-200.8	11/09/22 21:20	11/10/22	13:06	KHS	PE-EL4	1	B153528	EPA 200.2

DCN = Data Continuation Number

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Tidewater Inc. - Powell
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Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225756-06	Client Sample Name: JPL, DUP-4-4Q22, 10/26/2022 9:55:00AM, 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc. - Powell
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 Powell, OH 43065

Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225756-06 **Client Sample Name:** JPL, DUP-4-4Q22, 10/26/2022 9:55:00AM, 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	V11	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	V11	1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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 Powell, OH 43065

Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225756-06 **Client Sample Name:** JPL, DUP-4-4Q22, 10/26/2022 9:55:00AM, 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)	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)	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	11/03/22 11:31	11/04/22 03:18	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225756-06	Client Sample Name: JPL, DUP-4-4Q22, 10/26/2022 9:55:00AM, 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	11/03/22 11:31	11/04/22	03:18	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 12/05/2022 9:13
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225756-06	Client Sample Name: JPL, DUP-4-4Q22, 10/26/2022 9:55:00AM, Blaine Tech
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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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	11/11/22 08:00	11/11/22 15:54	SAV	IC6	1	B153645	No Prep

DCN = Data Continuation Number

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Reported: 12/05/2022 9:13
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225756-06	Client Sample Name: JPL, DUP-4-4Q22, 10/26/2022 9:55:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.0034	mg/L	0.00020	0.000020	EPA-218.6	0.000025		1
Total Recoverable Chromium	2.3	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	10/28/22 14:00	10/28/22	16:59	KSA	IC-4	1	B152530	No Prep
2	EPA-200.8	11/09/22 21:20	11/10/22	13:08	KHS	PE-EL4	1	B153528	EPA 200.2

DCN = Data Continuation Number

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Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225756-07	Client Sample Name: JPL, MW-24-5, 10/26/2022 11:20:00AM, 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225756-07	Client Sample Name:	JPL, MW-24-5, 10/26/2022 11:20:00AM, 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	V11	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	V11	1	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1	

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Tidewater Inc. - Powell
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Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225756-07	Client Sample Name: JPL, MW-24-5, 10/26/2022 11:20:00AM, 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)	91.8	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.1	%	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	11/03/22 11:31	11/04/22 03:42	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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 Powell, OH 43065

Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225756-07	Client Sample Name: JPL, MW-24-5, 10/26/2022 11:20:00AM, 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	11/03/22 11:31	11/04/22	03:42	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
 3761 Attucks Drive
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Reported: 12/05/2022 9:13
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225756-07	Client Sample Name: JPL, MW-24-5, 10/26/2022 11:20:00AM, 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	11/11/22 08:00	11/11/22 16:10	SAV	IC6	1	B153645	No Prep

DCN = Data Continuation Number

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Reported: 12/05/2022 9:13
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225756-07	Client Sample Name: JPL, MW-24-5, 10/26/2022 11:20:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.0023	mg/L	0.00020	0.000020	EPA-218.6	0.000025		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	10/28/22 14:00	10/28/22 18:54		KSA	IC-4	1	B152530	No Prep
2	EPA-200.8	11/09/22 21:20	11/10/22 13:10		KHS	PE-EL4	1	B153528	EPA 200.2

DCN = Data Continuation Number

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Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225756-08 **Client Sample Name:** JPL, MW-24-4, 10/26/2022 11:50:00AM, 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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 Powell, OH 43065

Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225756-08	Client Sample Name:	JPL, MW-24-4, 10/26/2022 11:50:00AM, 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	V11	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	V11	1	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1	

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

Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225756-08 **Client Sample Name:** JPL, MW-24-4, 10/26/2022 11:50:00AM, 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)	96.7	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.7	%	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	11/03/22 11:31	11/04/22 06:05	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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 Powell, OH 43065

Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225756-08	Client Sample Name: JPL, MW-24-4, 10/26/2022 11:50:00AM, 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	11/03/22 11:31	11/04/22	06:05	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number



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

Reported: 12/05/2022 9:13
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225756-08	Client Sample Name: JPL, MW-24-4, 10/26/2022 11:50:00AM, 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	11/11/22 08:00	11/11/22 16:25	SAV	IC6	1	B153645	No Prep

DCN = Data Continuation Number

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Reported: 12/05/2022 9:13
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225756-08	Client Sample Name: JPL, MW-24-4, 10/26/2022 11:50:00AM, 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	0.000025		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	10/28/22 14:00	10/28/22	17:09	KSA	IC-4	1	B152530	No Prep
2	EPA-200.8	11/09/22 21:20	11/10/22	13:12	KHS	PE-EL4	1	B153528	EPA 200.2

DCN = Data Continuation Number

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Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225756-09	Client Sample Name: JPL, MW-24-3, 10/26/2022 12:15:00PM, 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225756-09	Client Sample Name:	JPL, MW-24-3, 10/26/2022 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	V11	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	0.66	ug/L	0.50	0.48	EPA-524.2	ND	V11	1	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1	

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

Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225756-09	Client Sample Name: JPL, MW-24-3, 10/26/2022 12:15:00PM, 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)	94.9	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.6	%	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	11/03/22 11:31	11/04/22 06:29	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225756-09	Client Sample Name: JPL, MW-24-3, 10/26/2022 12:15:00PM, 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	11/03/22 11:31	11/04/22	06:29	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 12/05/2022 9:13
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225756-09	Client Sample Name: JPL, MW-24-3, 10/26/2022 12:15:00PM, 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	11/11/22 08:00	11/11/22	16:40	SAV	IC6	1	B153645	No Prep

DCN = Data Continuation Number

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Reported: 12/05/2022 9:13
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225756-09	Client Sample Name: JPL, MW-24-3, 10/26/2022 12:15:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.000087	mg/L	0.00020	0.000020	EPA-218.6	0.000025	J	1
Total Recoverable Chromium	0.54	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	10/28/22 14:00	10/28/22 17:18		KSA	IC-4	1	B152530	No Prep
2	EPA-200.8	11/09/22 21:20	11/10/22 13:14		KHS	PE-EL4	1	B153528	EPA 200.2

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Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225756-10	Client Sample Name:	JPL, MW-24-2, 10/26/2022 1:10:00PM, 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.84	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: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225756-10 **Client Sample Name:** JPL, MW-24-2, 10/26/2022 1:10:00PM, 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	V11	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	V11	1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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 3761 Attucks Drive
 Powell, OH 43065

Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225756-10 **Client Sample Name:** JPL, MW-24-2, 10/26/2022 1:10:00PM, 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)	97.3	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.1	%	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	11/03/22 11:31	11/04/22 06:53	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number

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Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225756-10	Client Sample Name: JPL, MW-24-2, 10/26/2022 1:10:00PM, 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	11/03/22 11:31	11/04/22	06:53	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number



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Reported: 12/05/2022 9:13
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225756-10	Client Sample Name: JPL, MW-24-2, 10/26/2022 1:10:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	17	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	11/11/22 08:00	11/11/22 16:56	SAV	IC6	1	B153645	No Prep

DCN = Data Continuation Number

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Reported: 12/05/2022 9:13
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225756-10	Client Sample Name: JPL, MW-24-2, 10/26/2022 1:10:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.0015	mg/L	0.00020	0.000020	EPA-218.6	0.000025		1
Total Recoverable Chromium	2.2	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	10/28/22	14:00	10/28/22	17:28	KSA	IC-4	1	B152530	No Prep
2	EPA-200.8	11/09/22	21:20	11/10/22	13:16	KHS	PE-EL4	1	B153528	EPA 200.2

DCN = Data Continuation Number

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Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225756-11	Client Sample Name:	JPL, DUP-5-4Q22, 10/26/2022 1:20:00PM, 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.85	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: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225756-11	Client Sample Name:	JPL, DUP-5-4Q22, 10/26/2022 1:20:00PM, 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	V11	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	V11	1	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1	

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

Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225756-11	Client Sample Name: JPL, DUP-5-4Q22, 10/26/2022 1:20:00PM, 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)	96.2	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.0	%	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	11/03/22 11:31	11/04/22 07:17	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number



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

Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225756-11	Client Sample Name: JPL, DUP-5-4Q22, 10/26/2022 1:20:00PM, 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	11/03/22 11:31	11/04/22	07:17	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 12/05/2022 9:13
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225756-11	Client Sample Name: JPL, DUP-5-4Q22, 10/26/2022 1:20:00PM, 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	11/16/22 13:00	11/16/22 20:23	SAV	IC6	1	B154065	No Prep

DCN = Data Continuation Number

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Tidewater Inc. - Powell
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Reported: 12/05/2022 9:13
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225756-11	Client Sample Name: JPL, DUP-5-4Q22, 10/26/2022 1:20:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.0015	mg/L	0.00020	0.000020	EPA-218.6	0.000025		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	Date/Time				Batch ID	Prep Method
1	EPA-218.6	10/28/22 14:00	10/28/22 14:00	10/28/22 17:38	KSA	IC-4	1	B152530	No Prep
2	EPA-200.8	11/09/22 21:20	11/09/22 21:20	11/10/22 13:18	KHS	PE-EL4	1	B153528	EPA 200.2

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Tidewater Inc. - Powell
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Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225756-12	Client Sample Name:	JPL, MW-24-1, 10/26/2022 1:50:00PM, 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	1.8	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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 Powell, OH 43065

Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225756-12		Client Sample Name: JPL, MW-24-1, 10/26/2022 1:50:00PM, 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	V11	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	V11	1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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

Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225756-12 **Client Sample Name:** JPL, MW-24-1, 10/26/2022 1:50:00PM, 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)	95.9	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.0	%	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	11/03/22 11:31	11/04/22 07:41	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number



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

Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225756-12	Client Sample Name: JPL, MW-24-1, 10/26/2022 1:50:00PM, 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	11/03/22 11:31	11/04/22	07:41	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number



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

Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225756-12	Client Sample Name: JPL, MW-24-1, 10/26/2022 1:50:00PM, 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	0.18		1
Nitrate as N	2.5	mg/L	0.10	0.024	EPA-300.0	ND		1
Sulfate	58	mg/L	1.0	0.14	EPA-300.0	0.44		1
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		2
Perchlorate	35	ug/L	10	4.0	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	10/27/22 20:00	10/27/22	21:58	SAV	IC7	1	B152489	No Prep
2	EPA-353.2	10/27/22 18:39	10/27/22	18:39	KB1	KONE-1	1	B153609	No Prep
3	EPA-314.0	11/16/22 13:00	11/17/22	10:12	SAV	IC6	5	B154065	No Prep
4	EPA-365.1	10/27/22 18:00	10/27/22	18:58	MC1	SC-2	1	B153705	No Prep

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

Reported: 12/05/2022 9:13
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225756-12	Client Sample Name: JPL, MW-24-1, 10/26/2022 1:50:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.0060	mg/L	0.00020	0.000020	EPA-218.6	0.000025		1
Total Recoverable Chromium	9.2	ug/L	3.0	0.50	EPA-200.8	ND		2

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time	Date/Time				Batch ID	Prep Method
1	EPA-218.6	10/28/22 14:00	10/28/22 14:00	10/28/22 17:47	KSA	IC-4	1	B152530	No Prep
2	EPA-200.8	11/09/22 21:20	11/10/22 21:20	11/10/22 13:20	KHS	PE-EL4	1	B153528	EPA 200.2

DCN = Data Continuation Number

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Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225756-13	Client Sample Name: JPL, EB-3-102622, 10/26/2022 2:00:00PM, 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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 3761 Attucks Drive
 Powell, OH 43065

Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225756-13	Client Sample Name:	JPL, EB-3-102622, 10/26/2022 2:00:00PM, 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	V11	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	V11	1	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1	

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

Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225756-13 **Client Sample Name:** JPL, EB-3-102622, 10/26/2022 2:00:00PM, 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)	93.2	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	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	11/03/22 11:31	11/04/22 08:05	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
 3761 Attucks Drive
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Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225756-13	Client Sample Name: JPL, EB-3-102622, 10/26/2022 2:00:00PM, 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	11/03/22 11:31	11/04/22	08:05	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
 3761 Attucks Drive
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Reported: 12/05/2022 9:13
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225756-13	Client Sample Name: JPL, EB-3-102622, 10/26/2022 2:00:00PM, 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	11/16/22 13:00	11/16/22 22:25	SAV	IC6	1	B154065	No Prep

DCN = Data Continuation Number

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Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225756-13	Client Sample Name: JPL, EB-3-102622, 10/26/2022 2:00:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00016	mg/L	0.00020	0.000020	EPA-218.6	0.000025	J	1
Total Recoverable Chromium	0.54	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	10/28/22 14:00	10/28/22 17:57		KSA	IC-4	1	B152530	No Prep
2	EPA-200.8	11/09/22 21:20	11/10/22 13:50		KHS	PE-EL4	1	B153529	EPA 200.2

DCN = Data Continuation Number

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Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
QC Batch ID: B152788							
Benzene	B152788-BLK1	ND	ug/L	0.50	0.11		1
Bromobenzene	B152788-BLK1	ND	ug/L	0.50	0.15		1
Bromochloromethane	B152788-BLK1	ND	ug/L	0.50	0.27		1
Bromodichloromethane	B152788-BLK1	ND	ug/L	0.50	0.20		1
Bromoform	B152788-BLK1	ND	ug/L	0.50	0.46		1
Bromomethane	B152788-BLK1	ND	ug/L	0.50	0.20		1
n-Butylbenzene	B152788-BLK1	ND	ug/L	0.50	0.15		1
sec-Butylbenzene	B152788-BLK1	ND	ug/L	0.50	0.13		1
tert-Butylbenzene	B152788-BLK1	ND	ug/L	0.50	0.18		1
Carbon tetrachloride	B152788-BLK1	ND	ug/L	0.50	0.17		1
Chlorobenzene	B152788-BLK1	ND	ug/L	0.50	0.14		1
Chloroethane	B152788-BLK1	ND	ug/L	0.50	0.17		1
Chloroform	B152788-BLK1	ND	ug/L	0.50	0.14		1
Chloromethane	B152788-BLK1	ND	ug/L	0.50	0.11		1
2-Chlorotoluene	B152788-BLK1	ND	ug/L	0.50	0.14		1
4-Chlorotoluene	B152788-BLK1	ND	ug/L	0.50	0.093		1
Dibromochloromethane	B152788-BLK1	ND	ug/L	0.50	0.22		1
1,2-Dibromo-3-chloropropane	B152788-BLK1	ND	ug/L	1.0	0.89		1
1,2-Dibromoethane	B152788-BLK1	ND	ug/L	0.50	0.22		1
Dibromomethane	B152788-BLK1	ND	ug/L	0.50	0.23		1
1,2-Dichlorobenzene	B152788-BLK1	ND	ug/L	0.50	0.21		1
1,3-Dichlorobenzene	B152788-BLK1	ND	ug/L	0.50	0.16		1
1,4-Dichlorobenzene	B152788-BLK1	ND	ug/L	0.50	0.15		1
Dichlorodifluoromethane	B152788-BLK1	ND	ug/L	0.50	0.15		1
1,1-Dichloroethane	B152788-BLK1	ND	ug/L	0.50	0.15		1
1,2-Dichloroethane	B152788-BLK1	ND	ug/L	0.50	0.17		1
1,1-Dichloroethene	B152788-BLK1	ND	ug/L	0.50	0.27		1
cis-1,2-Dichloroethene	B152788-BLK1	ND	ug/L	0.50	0.27		1
trans-1,2-Dichloroethene	B152788-BLK1	ND	ug/L	0.50	0.17		1
1,2-Dichloropropane	B152788-BLK1	ND	ug/L	0.50	0.15		1
1,3-Dichloropropane	B152788-BLK1	ND	ug/L	0.50	0.13		1
2,2-Dichloropropane	B152788-BLK1	ND	ug/L	0.50	0.18		1
1,1-Dichloropropene	B152788-BLK1	ND	ug/L	0.50	0.19		1
cis-1,3-Dichloropropene	B152788-BLK1	ND	ug/L	0.50	0.14		1

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Tidewater Inc. - Powell
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Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
QC Batch ID: B152788							
trans-1,3-Dichloropropene	B152788-BLK1	ND	ug/L	0.50	0.13		1
Ethylbenzene	B152788-BLK1	ND	ug/L	0.50	0.15		1
Hexachlorobutadiene	B152788-BLK1	ND	ug/L	0.50	0.20		1
Isopropylbenzene	B152788-BLK1	ND	ug/L	0.50	0.14		1
p-Isopropyltoluene	B152788-BLK1	ND	ug/L	0.50	0.14		1
Methylene chloride	B152788-BLK1	ND	ug/L	0.50	0.21		1
Methyl t-butyl ether	B152788-BLK1	ND	ug/L	0.50	0.14		1
Naphthalene	B152788-BLK1	ND	ug/L	0.50	0.16		1
n-Propylbenzene	B152788-BLK1	ND	ug/L	0.50	0.12		1
Styrene	B152788-BLK1	ND	ug/L	0.50	0.12		1
1,1,1,2-Tetrachloroethane	B152788-BLK1	ND	ug/L	0.50	0.21		1
1,1,1,2,2-Tetrachloroethane	B152788-BLK1	ND	ug/L	0.50	0.17		1
Tetrachloroethene	B152788-BLK1	ND	ug/L	0.50	0.23		1
Toluene	B152788-BLK1	ND	ug/L	0.50	0.17		1
1,2,3-Trichlorobenzene	B152788-BLK1	ND	ug/L	0.50	0.19		1
1,2,4-Trichlorobenzene	B152788-BLK1	ND	ug/L	0.50	0.15		1
1,1,1-Trichloroethane	B152788-BLK1	ND	ug/L	0.50	0.21		1
1,1,2-Trichloroethane	B152788-BLK1	ND	ug/L	0.50	0.21		1
Trichloroethene	B152788-BLK1	ND	ug/L	0.50	0.19		1
Trichlorofluoromethane	B152788-BLK1	ND	ug/L	0.50	0.14		1
1,2,3-Trichloropropane	B152788-BLK1	ND	ug/L	1.0	0.78		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B152788-BLK1	ND	ug/L	0.50	0.19		1
1,2,4-Trimethylbenzene	B152788-BLK1	ND	ug/L	0.50	0.17		1
1,3,5-Trimethylbenzene	B152788-BLK1	ND	ug/L	0.50	0.14		1
Vinyl chloride	B152788-BLK1	ND	ug/L	0.50	0.18		1
Acetone	B152788-BLK1	ND	ug/L	10	6.6		1
Acrylonitrile	B152788-BLK1	ND	ug/L	5.0	1.5		1
Allyl chloride	B152788-BLK1	ND	ug/L	5.0	0.47		1
t-Amyl Methyl ether	B152788-BLK1	ND	ug/L	0.50	0.19		1
t-Butyl alcohol	B152788-BLK1	ND	ug/L	2.0	2.0		1
Carbon disulfide	B152788-BLK1	ND	ug/L	0.50	0.48		1
trans-1,4-Dichloro-2-butene	B152788-BLK1	ND	ug/L	5.0	1.8		1
Diethyl ether	B152788-BLK1	ND	ug/L	2.0	0.33		1
Ethyl methacrylate	B152788-BLK1	ND	ug/L	4.0	1.3		1

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

Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
QC Batch ID: B152788							
Ethyl t-butyl ether	B152788-BLK1	ND	ug/L	0.50	0.32		1
Hexachloroethane	B152788-BLK1	ND	ug/L	0.50	0.11		1
2-Hexanone	B152788-BLK1	ND	ug/L	10	5.0		1
Methacrylonitrile	B152788-BLK1	ND	ug/L	10	2.3		1
Methyl ethyl ketone	B152788-BLK1	ND	ug/L	5.0	3.3		1
Methyl iodide	B152788-BLK1	ND	ug/L	2.0	1.1		1
Methyl isobutyl ketone	B152788-BLK1	ND	ug/L	5.0	2.4		1
Methyl methacrylate	B152788-BLK1	ND	ug/L	5.0	1.2		1
Pentachloroethane	B152788-BLK1	ND	ug/L	2.0	0.63		1
Propionitrile	B152788-BLK1	ND	ug/L	20	6.2		1
Tetrahydrofuran	B152788-BLK1	ND	ug/L	20	5.2		1
p- & m-Xylenes	B152788-BLK1	ND	ug/L	0.50	0.34		1
o-Xylene	B152788-BLK1	ND	ug/L	0.50	0.13		1
1,2-Dichloroethane-d4 (Surrogate)	B152788-BLK1	91.6	%	75 - 125 (LCL - UCL)			1
Toluene-d8 (Surrogate)	B152788-BLK1	97.4	%	80 - 120 (LCL - UCL)			1
4-Bromofluorobenzene (Surrogate)	B152788-BLK1	98.5	%	80 - 120 (LCL - UCL)			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B152788-BLK1	PB	EPA-524.2	11/03/22	11/03/22 18:31	RCC	MS-V5	1

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Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
								Percent Recovery	RPD		
QC Batch ID: B152788											
Benzene	B152788-BS1	LCS	20.890	25.000	ug/L	83.6		70 - 130			1
Bromodichloromethane	B152788-BS1	LCS	26.450	25.000	ug/L	106		70 - 130			1
Chlorobenzene	B152788-BS1	LCS	24.380	25.000	ug/L	97.5		70 - 130			1
Chloroethane	B152788-BS1	LCS	23.080	25.000	ug/L	92.3		70 - 130			1
1,4-Dichlorobenzene	B152788-BS1	LCS	25.760	25.000	ug/L	103		70 - 130			1
1,1-Dichloroethane	B152788-BS1	LCS	21.340	25.000	ug/L	85.4		70 - 130			1
1,1-Dichloroethene	B152788-BS1	LCS	22.780	25.000	ug/L	91.1		70 - 130			1
Toluene	B152788-BS1	LCS	22.810	25.000	ug/L	91.2		70 - 130			1
Trichloroethene	B152788-BS1	LCS	23.850	25.000	ug/L	95.4		70 - 130			1
1,2-Dichloroethane-d4 (Surrogate)	B152788-BS1	LCS	9.3400	10.000	ug/L	93.4		75 - 125			1
Toluene-d8 (Surrogate)	B152788-BS1	LCS	9.9500	10.000	ug/L	99.5		80 - 120			1
4-Bromofluorobenzene (Surrogate)	B152788-BS1	LCS	10.070	10.000	ug/L	101		80 - 120			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B152788-BS1	LCS	EPA-524.2	11/03/22	11/04/22	00:30	RCC	MS-V5	1

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Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	R#
									RPD	Percent Recovery		
QC Batch ID: B152788		Used client sample: Y - Description: MW-22-5, 10/26/2022 08:20										
Benzene	MS	2225756-02	ND	21.030	25.000	ug/L		84.1		70 - 130		1
	MSD	2225756-02	ND	21.290	25.000	ug/L	1.2	85.2	20	70 - 130		2
Bromodichloromethane	MS	2225756-02	ND	27.250	25.000	ug/L		109		70 - 130		1
	MSD	2225756-02	ND	27.430	25.000	ug/L	0.7	110	20	70 - 130		2
Chlorobenzene	MS	2225756-02	ND	24.180	25.000	ug/L		96.7		70 - 130		1
	MSD	2225756-02	ND	24.850	25.000	ug/L	2.7	99.4	20	70 - 130		2
Chloroethane	MS	2225756-02	ND	23.140	25.000	ug/L		92.6		70 - 130		1
	MSD	2225756-02	ND	23.030	25.000	ug/L	0.5	92.1	20	70 - 130		2
1,4-Dichlorobenzene	MS	2225756-02	ND	25.570	25.000	ug/L		102		70 - 130		1
	MSD	2225756-02	ND	26.630	25.000	ug/L	4.1	107	20	70 - 130		2
1,1-Dichloroethane	MS	2225756-02	ND	21.490	25.000	ug/L		86.0		70 - 130		1
	MSD	2225756-02	ND	21.550	25.000	ug/L	0.3	86.2	20	70 - 130		2
1,1-Dichloroethene	MS	2225756-02	ND	22.930	25.000	ug/L		91.7		70 - 130		1
	MSD	2225756-02	ND	23.240	25.000	ug/L	1.3	93.0	20	70 - 130		2
Toluene	MS	2225756-02	ND	23.600	25.000	ug/L		94.4		70 - 130		1
	MSD	2225756-02	ND	23.750	25.000	ug/L	0.6	95.0	20	70 - 130		2
Trichloroethene	MS	2225756-02	ND	23.420	25.000	ug/L		93.7		70 - 130		1
	MSD	2225756-02	ND	24.000	25.000	ug/L	2.4	96.0	20	70 - 130		2
1,2-Dichloroethane-d4 (Surrogate)	MS	2225756-02	ND	9.2800	10.000	ug/L		92.8		75 - 125		1
	MSD	2225756-02	ND	9.2200	10.000	ug/L	0.6	92.2		75 - 125		2
Toluene-d8 (Surrogate)	MS	2225756-02	ND	9.8800	10.000	ug/L		98.8		80 - 120		1
	MSD	2225756-02	ND	9.9300	10.000	ug/L	0.5	99.3		80 - 120		2
4-Bromofluorobenzene (Surrogate)	MS	2225756-02	ND	9.8900	10.000	ug/L		98.9		80 - 120		1
	MSD	2225756-02	ND	9.8600	10.000	ug/L	0.3	98.6		80 - 120		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B152788-MS1	MS	EPA-524.2	11/03/22	11/04/22 00:54	RCC	MS-V5	1
2	B152788-MSD1	MSD	EPA-524.2	11/03/22	11/04/22 01:18	RCC	MS-V5	1

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Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
QC Batch ID: B152788							
Nitrobenzene	B152788-BLK1	0	ug/L				1
Methyl acrylate	B152788-BLK1	0	ug/L				1
Chloroacetonitrile	B152788-BLK1	0	ug/L				1
2-Nitropropane	B152788-BLK1	0	ug/L				1
1-Chlorobutane	B152788-BLK1	0	ug/L				1
1,1-Dichloropropanone	B152788-BLK1	0	ug/L				1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B152788-BLK1	PB	EPA-524.2	11/03/22	11/03/22 18:31	RCC	MS-V5	1

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Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
QC Batch ID: B152489							
Chloride	B152489-BLK1	0.18400	mg/L	0.50	0.13	J	1
Nitrate as N	B152489-BLK1	ND	mg/L	0.10	0.024		1
Sulfate	B152489-BLK1	0.43700	mg/L	1.0	0.14	J	1
QC Batch ID: B153609							
Nitrite as N	B153609-BLK1	ND	mg/L	0.050	0.010		2
QC Batch ID: B153645							
Perchlorate	B153645-BLK1	ND	ug/L	2.0	0.81		3
QC Batch ID: B153705							
ortho-Phosphate as P	B153705-BLK1	ND	mg/L	0.050	0.017		4
QC Batch ID: B154065							
Perchlorate	B154065-BLK1	ND	ug/L	2.0	0.81		5

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B152489-BLK1	PB	EPA-300.0	10/27/22	10/27/22 17:33	KSA	IC7	1
2	B153609-BLK1	PB	EPA-353.2	10/27/22	10/27/22 18:39	KB1	KONE-1	1
3	B153645-BLK1	PB	EPA-314.0	11/11/22	11/11/22 09:31	SAV	IC6	1
4	B153705-BLK1	PB	EPA-365.1	10/27/22	10/27/22 18:57	MC1	SC-2	1
5	B154065-BLK1	PB	EPA-314.0	11/16/22	11/16/22 18:51	KSA	IC6	1

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 3761 Attucks Drive
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Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
								Percent Recovery	RPD		
QC Batch ID: B152489											
Chloride	B152489-BS1	LCS	50.171	50.000	mg/L	100		90 - 110			1
Nitrate as N	B152489-BS1	LCS	4.8830	5.0000	mg/L	97.7		90 - 110			1
Sulfate	B152489-BS1	LCS	99.072	100.00	mg/L	99.1		90 - 110			1
QC Batch ID: B153609											
Nitrite as N	B153609-BS1	LCS	0.49202	0.50000	mg/L	98.4		90 - 110			2
QC Batch ID: B153645											
Perchlorate	B153645-BS1	LCS	9.2869	10.000	ug/L	92.9		85 - 115			3
	B153645-BSD1	LCSD	10.373	10.000	ug/L	104	11.1	85 - 115		15	4
QC Batch ID: B153705											
ortho-Phosphate as P	B153705-BS1	LCS	0.50330	0.50000	mg/L	101		90 - 110			5
	B153705-BSD1	LCSD	0.50590	0.50000	mg/L	101	0.5	90 - 110		200	6
QC Batch ID: B154065											
Perchlorate	B154065-BS1	LCS	9.9484	10.000	ug/L	99.5		85 - 115			7

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B152489-BS1	LCS	EPA-300.0	10/27/22	10/27/22	17:51	KSA	IC7	1
2	B153609-BS1	LCS	EPA-353.2	10/27/22	10/27/22	18:39	KB1	KONE-1	1
3	B153645-BS1	LCS	EPA-314.0	11/11/22	11/11/22	09:46	SAV	IC6	1
4	B153645-BSD1	LCSD	EPA-314.0	11/11/22	11/11/22	10:01	SAV	IC6	1
5	B153705-BS1	LCS	EPA-365.1	10/27/22	10/27/22	18:56	MC1	SC-2	1
6	B153705-BSD1	LCSD	EPA-365.1	10/27/22	10/27/22	18:56	MC1	SC-2	1
7	B154065-BS1	LCS	EPA-314.0	11/16/22	11/16/22	19:06	KSA	IC6	1

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 Powell, OH 43065

Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	R#
									RPD	Percent Recovery		
QC Batch ID: B152489		Used client sample: N										
Chloride	DUP	2225780-01	16.330	16.465		mg/L	0.8		10			1
	MS	2225780-01	16.330	70.237	50.505	mg/L		107		80 - 120		2
	MSD	2225780-01	16.330	71.163	50.505	mg/L	1.3	109	10	80 - 120		3
Nitrate as N	DUP	2225780-01	0.041000	0.041000		mg/L	0		10		J	1
	MS	2225780-01	0.041000	4.9020	5.0505	mg/L		96.2		80 - 120		2
	MSD	2225780-01	0.041000	4.9101	5.0505	mg/L	0.2	96.4	10	80 - 120		3
Sulfate	DUP	2225780-01	43.157	43.626		mg/L	1.1		10			1
	MS	2225780-01	43.157	151.37	101.01	mg/L		107		80 - 120		2
	MSD	2225780-01	43.157	151.23	101.01	mg/L	0.1	107	10	80 - 120		3
QC Batch ID: B153609		Used client sample: Y - Description: MW-24-1, 10/26/2022 13:50										
Nitrite as N	DUP	2225756-12	ND	ND		mg/L			10			4
	MS	2225756-12	ND	0.50901	0.52632	mg/L		96.7		90 - 110		5
	MSD	2225756-12	ND	0.50939	0.52632	mg/L	0.1	96.8	10	90 - 110		6
QC Batch ID: B153645		Used client sample: N										
Perchlorate	DUP	2225521-12	ND	ND		ug/L			15			7
	MS	2225521-12	ND	10.185	10.101	ug/L		101		80 - 120		8
	MSD	2225521-12	ND	10.748	10.101	ug/L	5.4	106	15	80 - 120		9
QC Batch ID: B153705		Used client sample: Y - Description: MW-24-1, 10/26/2022 13:50										
ortho-Phosphate as P	DUP	2225756-12	ND	0.023800		mg/L			10		J	10
	MS	2225756-12	ND	0.51940	0.50000	mg/L		104		90 - 110		11
	MSD	2225756-12	ND	0.52360	0.50000	mg/L	0.8	105	10	90 - 110		12
QC Batch ID: B154065		Used client sample: N										
Perchlorate	DUP	2225921-05	ND	ND		ug/L			15			13
	MS	2225921-05	ND	9.4551	10.101	ug/L		93.6		80 - 120		14
	MSD	2225921-05	ND	9.2983	10.101	ug/L	1.7	92.1	15	80 - 120		15

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 Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B152489-DUP1	DUP	EPA-300.0	10/27/22	10/27/22 18:59	KSA	IC7	1
2	B152489-MS1	MS	EPA-300.0	10/27/22	10/27/22 19:17	SAV	IC7	1.010
3	B152489-MSD1	MSD	EPA-300.0	10/27/22	10/27/22 19:35	SAV	IC7	1.010
4	B153609-DUP1	DUP	EPA-353.2	10/27/22	10/27/22 18:39	KB1	KONE-1	1
5	B153609-MS1	MS	EPA-353.2	10/27/22	10/27/22 18:39	KB1	KONE-1	1.053
6	B153609-MSD1	MSD	EPA-353.2	10/27/22	10/27/22 18:39	KB1	KONE-1	1.053
7	B153645-DUP1	DUP	EPA-314.0	11/11/22	11/11/22 10:32	SAV	IC6	1
8	B153645-MS1	MS	EPA-314.0	11/11/22	11/11/22 10:47	SAV	IC6	1.010
9	B153645-MSD1	MSD	EPA-314.0	11/11/22	11/11/22 11:03	SAV	IC6	1.010
10	B153705-DUP1	DUP	EPA-365.1	10/27/22	10/27/22 18:58	MC1	SC-2	1
11	B153705-MS1	MS	EPA-365.1	10/27/22	10/27/22 18:59	MC1	SC-2	1
12	B153705-MSD1	MSD	EPA-365.1	10/27/22	10/27/22 18:59	MC1	SC-2	1
13	B154065-DUP1	DUP	EPA-314.0	11/16/22	11/16/22 19:37	KSA	IC6	1
14	B154065-MS1	MS	EPA-314.0	11/16/22	11/16/22 19:52	SAV	IC6	1.010
15	B154065-MSD1	MSD	EPA-314.0	11/16/22	11/16/22 20:07	SAV	IC6	1.010

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 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B152529							
Hexavalent Chromium	B152529-BLK1	ND	mg/L	0.00020	0.000020		1
QC Batch ID: B152530							
Hexavalent Chromium	B152530-BLK1	0.000025000	mg/L	0.00020	0.000020	J	2
QC Batch ID: B153463							
Total Recoverable Chromium	B153463-BLK1	ND	ug/L	3.0	0.50		3
QC Batch ID: B153528							
Total Recoverable Chromium	B153528-BLK1	ND	ug/L	3.0	0.50		4
QC Batch ID: B153529							
Total Recoverable Chromium	B153529-BLK1	ND	ug/L	3.0	0.50		5

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B152529-BLK1	PB	EPA-218.6	10/28/22	10/28/22	19:33	KSA	IC-4	1
2	B152530-BLK1	PB	EPA-218.6	10/28/22	10/28/22	19:14	KSA	IC-4	1
3	B153463-BLK1	PB	EPA-200.8	11/09/22	11/09/22	14:11	KHS	PE-EL4	1
4	B153528-BLK1	PB	EPA-200.8	11/09/22	11/10/22	12:43	KHS	PE-EL4	1
5	B153529-BLK1	PB	EPA-200.8	11/09/22	11/10/22	13:48	KHS	PE-EL4	1

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

Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
								Percent Recovery	RPD		
QC Batch ID: B152529											
Hexavalent Chromium	B152529-BS1	LCS	0.020582	0.020000	mg/L	103		90 - 110			1
QC Batch ID: B152530											
Hexavalent Chromium	B152530-BS1	LCS	0.019444	0.020000	mg/L	97.2		90 - 110			2
QC Batch ID: B153463											
Total Recoverable Chromium	B153463-BS1	LCS	42.898	40.000	ug/L	107		85 - 115			3
QC Batch ID: B153528											
Total Recoverable Chromium	B153528-BS1	LCS	41.738	40.000	ug/L	104		85 - 115			4
QC Batch ID: B153529											
Total Recoverable Chromium	B153529-BS1	LCS	42.117	40.000	ug/L	105		85 - 115			5

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B152529-BS1	LCS	EPA-218.6	10/28/22	10/28/22 19:23	KSA	IC-4	1
2	B152530-BS1	LCS	EPA-218.6	10/28/22	10/28/22 19:04	KSA	IC-4	1
3	B153463-BS1	LCS	EPA-200.8	11/09/22	11/09/22 14:19	KHS	PE-EL4	1
4	B153528-BS1	LCS	EPA-200.8	11/09/22	11/10/22 12:51	KHS	PE-EL4	1
5	B153529-BS1	LCS	EPA-200.8	11/09/22	11/10/22 13:55	KHS	PE-EL4	1

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

Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	R#
									RPD	Percent Recovery		
QC Batch ID: B152529		Used client sample: N										
Hexavalent Chromium	DUP	2225830-16	0.055330	0.055272		mg/L	0.1		10			1
	MS	2225830-16	0.055330	0.099105	0.040404	mg/L		108		90 - 110		2
	MSD	2225830-16	0.055330	0.098008	0.040404	mg/L	1.1	106	10	90 - 110		3
QC Batch ID: B152530		Used client sample: Y - Description: MW-22-2, 10/26/2022 09:45										
Hexavalent Chromium	DUP	2225756-05	0.0021280	0.0021480		mg/L	0.9		10			4
	MS	2225756-05	0.0021280	0.021377	0.020202	mg/L		95.3		90 - 110		5
	MSD	2225756-05	0.0021280	0.021561	0.020202	mg/L	0.9	96.2	10	90 - 110		6
QC Batch ID: B153463		Used client sample: N										
Total Recoverable Chromium	DUP	2225738-01	0.93800	0.91100		ug/L	2.9		20		J	7
	MS	2225738-01	0.93800	41.167	40.000	ug/L		101		70 - 130		8
	MSD	2225738-01	0.93800	42.028	40.000	ug/L	2.1	103	20	70 - 130		9
QC Batch ID: B153528		Used client sample: Y - Description: MW-22-4, 10/26/2022 09:00										
Total Recoverable Chromium	DUP	2225756-03	3.0450	3.4260		ug/L	11.8		20			10
	MS	2225756-03	3.0450	46.365	40.000	ug/L		108		70 - 130		11
	MSD	2225756-03	3.0450	45.146	40.000	ug/L	2.7	105	20	70 - 130		12
QC Batch ID: B153529		Used client sample: Y - Description: EB-3-102622, 10/26/2022 14:00										
Total Recoverable Chromium	DUP	2225756-13	0.53900	ND		ug/L			20			13
	MS	2225756-13	0.53900	44.576	40.000	ug/L		110		70 - 130		14
	MSD	2225756-13	0.53900	42.038	40.000	ug/L	5.9	104	20	70 - 130		15

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

Reported: 12/05/2022 9:13
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B152529-DUP1	DUP	EPA-218.6	10/28/22	10/28/22 14:45	RC1	IC-4	2
2	B152529-MS1	MS	EPA-218.6	10/28/22	10/28/22 14:55	RC1	IC-4	2.020
3	B152529-MSD1	MSD	EPA-218.6	10/28/22	10/28/22 15:04	RC1	IC-4	2.020
4	B152530-DUP1	DUP	EPA-218.6	10/28/22	10/28/22 18:26	KSA	IC-4	1
5	B152530-MS1	MS	EPA-218.6	10/28/22	10/28/22 18:35	KSA	IC-4	1.010
6	B152530-MSD1	MSD	EPA-218.6	10/28/22	10/28/22 18:45	KSA	IC-4	1.010
7	B153463-DUP1	DUP	EPA-200.8	11/09/22	11/09/22 14:15	KHS	PE-EL4	1
8	B153463-MS1	MS	EPA-200.8	11/09/22	11/09/22 14:21	KHS	PE-EL4	1
9	B153463-MSD1	MSD	EPA-200.8	11/09/22	11/09/22 14:23	KHS	PE-EL4	1
10	B153528-DUP1	DUP	EPA-200.8	11/09/22	11/10/22 12:47	KHS	PE-EL4	1
11	B153528-MS1	MS	EPA-200.8	11/09/22	11/10/22 12:53	KHS	PE-EL4	1
12	B153528-MSD1	MSD	EPA-200.8	11/09/22	11/10/22 12:55	KHS	PE-EL4	1
13	B153529-DUP1	DUP	EPA-200.8	11/09/22	11/10/22 13:51	KHS	PE-EL4	1
14	B153529-MS1	MS	EPA-200.8	11/09/22	11/10/22 13:57	KHS	PE-EL4	1
15	B153529-MSD1	MSD	EPA-200.8	11/09/22	11/10/22 13:59	KHS	PE-EL4	1

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

Reported: 12/05/2022 9:13
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
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: 11/21/2022

David Conner

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

Client Project: 4Q22
BCL Project: JPL- GW Monitoring Wells-CLP
BCL Work Order: 2225833
Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 10/25/2022. 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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MAC-10/25/22
1 of 2 MAC-3A

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Chain of Custody Form



Required Fields: 22-25833

Report To: Tidewater, Inc.
Client: David Conner
Street Address: 3761 Allucks Drive
City: Powell State: OH Zip: 43065
Phone: 626 | 298 - 5715 Fax: 614 | 792 - 2897
Email Address: david.conner@hoh2o.net

Project Description: JPL-GW Monitoring
Project Code: 4Q22
Sampler (s): Blaine Tech

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

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

Sample #	Sample Description	Date	Time	Matrix*	Analysis Requested	Notes
-1	1B-2-10-25-22	10/25/22	0800	W	Orthophosphate 365.1	Laboratory please select 2 SDBs for level IV validation
-2	MW-14-5		0805	W	Cl, NO3, NO2, SO4	
-3	MW-14-4		0835	W	Hexavalent Cr6 -218.6 (mg/L)	
-4	MW-14-3		0915	W	Perchlorate	
-5	DUP-2-4622		0905	W	TRM: C	
-6	MW-14-2		1000	W	VOCs EPA 524.2	
-7	MW-25-5		1120	W		
-8	MW-25-4		1205	W		
-9	MW-25-3		1235	W		
-10	MW-25-2		1305	W		
-11	DUP-3-4622		1315	W		

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

Global ID: _____
1. Relinquished By: _____ Date: 10/25/22 Time: 1700
2. Relinquished By: _____ Date: 10/25/22 Time: 1400
3. Relinquished By: _____ Date: 10/25/22 Time: 1830

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

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

NACC-10/25/22
2 of 2 NACC-3A

Page 2 of 2

Chain of Custody Form



*Required Fields *22-25833*

<p>Report To: Tidewater, Inc. Client: David Conner 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@tden2o.net Submission #:</p>	<p>Project Description: JPL-GW Monitoring Project Code: 4022 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><td></td></tr> <tr><td>Cl, NO3, NO2, SO4</td><td></td><td></td></tr> <tr><td>Hexavalent Cr6 -218.6 (mg/L)</td><td>X</td><td>X</td></tr> <tr><td>Perchlorate</td><td>X</td><td>X</td></tr> <tr><td>TRM: Cr</td><td>X</td><td>X</td></tr> <tr><td>VOCs EPA 524.2</td><td>X</td><td>X</td></tr> </table>	Orthophosphate 365.1			Cl, NO3, NO2, SO4			Hexavalent Cr6 -218.6 (mg/L)	X	X	Perchlorate	X	X	TRM: Cr	X	X	VOCs EPA 524.2	X	X	<p>Billing</p> <p>Client: Tidewater Attn: David Conner Address: 3761 Attucks Drive City: Powell State: OH Zip: 43065</p> <p>Are there any tests with holding times? less than or equal to 48 hours? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No</p> <p>Notes: <i>Laboratory please select 7 SDs for Level IV Validation</i></p>
Orthophosphate 365.1																					
Cl, NO3, NO2, SO4																					
Hexavalent Cr6 -218.6 (mg/L)	X	X																			
Perchlorate	X	X																			
TRM: Cr	X	X																			
VOCs EPA 524.2	X	X																			
<p>Sample #</p> <p><i>-12 MW-25-1</i> <i>-13 EB-2-10520</i></p>	<p>Date</p> <p><i>10/25/22</i> <i>10/25/22</i></p>	<p>Time</p> <p><i>1335</i> <i>1340</i></p>	<p>Matrix*</p> <p><i>W</i> <i>W</i></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: 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)</p>																					
<p>Cost Center:</p> <p>1. Relinquished By: _____ Date: _____ Time: _____ 2. Relinquished By: _____ Date: _____ Time: _____ 3. Relinquished By: _____ Date: _____ Time: _____</p>		<p>Global ID:</p> <p>1. Received By: _____ Date: _____ Time: _____ 2. Received By: _____ Date: _____ Time: _____ 3. Received By: _____ Date: _____ Time: _____</p>																			

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>1</u> Of <u>3</u>						
Submission #: <u>22-25833</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>(XV) / 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>1.4</u> °C / (C) <u>1.4</u> °C		Date/Time <u>10/25/22 1230</u> Analyst Init <u>PEC</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 ⁶										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
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	A-C	A-C	A-C	A-C	A-C	A-C	A-C	A-C	A-C
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 501										
QT EPA 508/608.3/808JA										
QT EPA 515.D/815IA										
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 IAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____
 Sample Numbering Completed By: ICB Date/Time: 10/28/22 @ 0912
 A = Actual / C = Corrected

PACE ANALYTICAL		COOLER RECEIPT FORM		Page 2 Of 3						
Submission #: <u>22-25833</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>0.98</u> Container: <u>PE</u> Thermometer ID: <u>274</u>		Date/Time <u>10/26/22</u> <u>1830</u>						
Temperature: (A) <u>0.6</u> °C / (C) <u>0.6</u> °C		Analyst Init <u>TRB</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							
2oz Cr ⁶⁺	E	E	E							
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz	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										
40ml VOA VIAL	A-C	A-C	A-C							
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 503/608 J/8031A										
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: _____ Date/Time: 10/26/22 @ 09:12 Rev 23 05/20/22
 Sample Numbering Completed By: ICP
 Actual / C = Corrected

PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>3</u> Of <u>3</u>	
Submission #: <u>22-25833</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>0.98</u> Container: <u>PC</u> Thermometer ID: <u>274</u>		Date/Time: <u>10/26/22</u> <u>1830</u>	
		Temperature: (A) <u>0.6</u> °C / (C) <u>0.6</u> °C		Analyst Init: <u>FFE</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 3oz / <u>6oz</u> PE UNPRES	<u>D</u>	<u>D</u>	<u>D</u>	<u>D</u>	<u>D</u>	<u>D</u>	<u>D</u>	<u>D</u>	<u>D</u>	<u>D</u>
2oz Cr ⁶	<u>E</u>	<u>E</u>	<u>E</u>	<u>E</u>	<u>E</u>	<u>E</u>	<u>E</u>	<u>E</u>	<u>E</u>	<u>E</u>
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / <u>6oz</u>		<u>F</u>	<u>F</u>	<u>F</u>	<u>F</u>	<u>F</u>	<u>F</u>	<u>F</u>	<u>F</u>	<u>F</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 1648										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
48 ml VOA VIAL- 504										
QT EPA 503/05.3/8051A										
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 5015M										
QT EPA 5270C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCR VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____
 Sample Numbering Completed By: JCP Date/Time: 10/26/22 @ 1830
 Actual / C = Corrected

Rev 23 05/20/22



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

Reported: 11/21/2022 11:06
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
2225833-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-2-102522 Sampled By: BTST	Receive Date: 10/25/2022 18:30 Sampling Date: 10/25/2022 07:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-2-102522 Matrix: W Sample QC Type (SACode): CS Cooler ID:	
2225833-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-14-5 Sampled By: BTST	Receive Date: 10/25/2022 18:30 Sampling Date: 10/25/2022 08:05 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-14-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:	
2225833-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-14-4 Sampled By: BTST	Receive Date: 10/25/2022 18:30 Sampling Date: 10/25/2022 08:35 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-14-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:	

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

Reported: 11/21/2022 11:06
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
2225833-04	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-14-3 Sampled By: BTST	Receive Date: 10/25/2022 18:30 Sampling Date: 10/25/2022 09:15 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-14-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:	
2225833-05	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: DUP-2-4Q22 Sampled By: BTST	Receive Date: 10/25/2022 18:30 Sampling Date: 10/25/2022 09:25 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): DUP-2-4Q22 Matrix: W Sample QC Type (SACode): CS Cooler ID:	
2225833-06	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-14-2 Sampled By: BTST	Receive Date: 10/25/2022 18:30 Sampling Date: 10/25/2022 10:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-14-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:	

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

Reported: 11/21/2022 11:06
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
2225833-07	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-25-5 Sampled By: BTST	Receive Date: 10/25/2022 18:30 Sampling Date: 10/25/2022 11:20 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-25-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:	
2225833-08	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-25-4 Sampled By: BTST	Receive Date: 10/25/2022 18:30 Sampling Date: 10/25/2022 12:05 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-25-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:	
2225833-09	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-25-3 Sampled By: BTST	Receive Date: 10/25/2022 18:30 Sampling Date: 10/25/2022 12:35 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-25-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:	

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Reported: 11/21/2022 11:06
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information					
2225833-10	COC Number:	---	Receive Date:	10/25/2022 18:30		
	Project Number:	JPL-GW	Sampling Date:	10/25/2022 13:05		
	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: W					
	Sample QC Type (SACode): CS					
Cooler ID:						
2225833-11	COC Number:	---	Receive Date:	10/25/2022 18:30		
	Project Number:	JPL-GW	Sampling Date:	10/25/2022 13:15		
	Sampling Location:	---	Sample Depth:	---		
	Sampling Point:	DUP-3-4Q22	Lab Matrix:	Water		
	Sampled By:	BTST	Sample Type:	Water		
	Delivery Work Order:					
	Global ID: 0000000000					
	Location ID (FieldPoint): DUP-3-4Q22					
	Matrix: W					
	Sample QC Type (SACode): CS					
Cooler ID:						
2225833-12	COC Number:	---	Receive Date:	10/25/2022 18:30		
	Project Number:	JPL-GW	Sampling Date:	10/25/2022 13:35		
	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: W					
	Sample QC Type (SACode): CS					
Cooler ID:						

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

Reported: 11/21/2022 11:06
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2225833-13	COC Number: ---	Receive Date: 10/25/2022 18:30
	Project Number: JPL-GW	Sampling Date: 10/25/2022 13:40
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: EB-2-102522	Lab Matrix: Water
	Sampled By: BTST	Sample Type: Water
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): EB-2-102522
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

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Tidewater Inc. - Powell
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 Powell, OH 43065

Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225833-01	Client Sample Name: JPL-GW, TB-2-102522, 10/25/2022 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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

Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225833-01		Client Sample Name: JPL-GW, TB-2-102522, 10/25/2022 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	V11	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	V11	1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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

Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225833-01	Client Sample Name: JPL-GW, TB-2-102522, 10/25/2022 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)	94.0	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.9	%	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	11/03/22 11:31	11/04/22 08:29	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number



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

Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225833-01	Client Sample Name: JPL-GW, TB-2-102522, 10/25/2022 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	11/03/22 11:31	11/04/22	08:29	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number



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

Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225833-02	Client Sample Name: JPL-GW, MW-14-5, 10/25/2022 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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

Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225833-02		Client Sample Name: JPL-GW, MW-14-5, 10/25/2022 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	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	V11	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	V11	1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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

Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225833-02 **Client Sample Name:** JPL-GW, MW-14-5, 10/25/2022 8:05:00AM

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)	95.1	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.8	%	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	11/03/22 11:31	11/04/22 08:53	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225833-02	Client Sample Name: JPL-GW, MW-14-5, 10/25/2022 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	11/03/22 11:31	11/04/22	08:53	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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 Powell, OH 43065

Reported: 11/21/2022 11:06
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225833-02	Client Sample Name: JPL-GW, MW-14-5, 10/25/2022 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	11/07/22 18:00	11/07/22 22:17	SAV	IC6	1	B153328	No Prep

DCN = Data Continuation Number

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Reported: 11/21/2022 11:06
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225833-02	Client Sample Name: JPL-GW, MW-14-5, 10/25/2022 8:05:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00020	mg/L	0.00020	0.000020	EPA-218.6	0.000031		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	11/01/22 16:00	11/01/22	19:09	KSA	IC-4	1	B152800	No Prep
2	EPA-200.8	11/02/22 19:10	11/03/22	10:16	ARD	PE-EL4	1	B152981	EPA 200.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225833-03	Client Sample Name:	JPL-GW, MW-14-4, 10/25/2022 8:35:00AM					
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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.15	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: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225833-03	Client Sample Name:	JPL-GW, MW-14-4, 10/25/2022 8:35:00AM						
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	V11	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	V11	1	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1	

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Tidewater Inc. - Powell
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 Powell, OH 43065

Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225833-03	Client Sample Name: JPL-GW, MW-14-4, 10/25/2022 8:35:00AM
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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)	97.2	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.4	%	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	11/03/22 11:31	11/04/22 09:17	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number



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

Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225833-03	Client Sample Name: JPL-GW, MW-14-4, 10/25/2022 8:35:00AM
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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	11/03/22 11:31	11/04/22	09:17	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number



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

Reported: 11/21/2022 11:06
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225833-03	Client Sample Name: JPL-GW, MW-14-4, 10/25/2022 8:35:00AM
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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	11/07/22 18:00	11/07/22	22:33	SAV	IC6	1	B153328	No Prep

DCN = Data Continuation Number

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Tidewater Inc. - Powell
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Reported: 11/21/2022 11:06
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225833-03	Client Sample Name: JPL-GW, MW-14-4, 10/25/2022 8:35:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.0019	mg/L	0.00020	0.000020	EPA-218.6	0.000031		1
Total Recoverable Chromium	2.1	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	11/01/22 16:00	11/01/22	19:47	KSA	IC-4	1	B152800	No Prep
2	EPA-200.8	11/02/22 19:10	11/03/22	10:56	ARD	PE-EL4	1	B152981	EPA 200.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225833-04	Client Sample Name:	JPL-GW, MW-14-3, 10/25/2022 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.44	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	0.28	ug/L	0.50	0.15	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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

Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225833-04	Client Sample Name: JPL-GW, MW-14-3, 10/25/2022 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	0.53	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	0.77	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	V11	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	V11	1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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

Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225833-04	Client Sample Name: JPL-GW, MW-14-3, 10/25/2022 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	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)	98.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.7	%	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	11/03/22 11:31	11/04/22 09:41	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number



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

Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225833-04	Client Sample Name: JPL-GW, MW-14-3, 10/25/2022 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	11/03/22 11:31	11/04/22	09:41	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number



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

Reported: 11/21/2022 11:06
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225833-04	Client Sample Name: JPL-GW, MW-14-3, 10/25/2022 9:15:00AM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	4.0	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	11/07/22 18:00	11/07/22 22:48	SAV	IC6	1	B153328	No Prep

DCN = Data Continuation Number

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Tidewater Inc. - Powell
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Reported: 11/21/2022 11:06
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225833-04	Client Sample Name: JPL-GW, MW-14-3, 10/25/2022 9:15:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.000095	mg/L	0.00020	0.000020	EPA-218.6	0.000031	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	11/01/22 16:00	11/01/22	19:57	KSA	IC-4	1	B152800	No Prep
2	EPA-200.8	11/02/22 19:10	11/03/22	10:58	ARD	PE-EL4	1	B152981	EPA 200.2

DCN = Data Continuation Number

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Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225833-05	Client Sample Name:	JPL-GW, DUP-2-4Q22, 10/25/2022 9:25:00AM					
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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.45	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	0.25	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: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225833-05	Client Sample Name:	JPL-GW, DUP-2-4Q22, 10/25/2022 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	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	0.78	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	V11	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	V11	1	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1	

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

Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225833-05	Client Sample Name: JPL-GW, DUP-2-4Q22, 10/25/2022 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)	94.7	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.9	%	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	11/03/22 11:31	11/04/22 10:05	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225833-05	Client Sample Name: JPL-GW, DUP-2-4Q22, 10/25/2022 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	11/03/22 11:31	11/04/22	10:05	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
 3761 Attucks Drive
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Reported: 11/21/2022 11:06
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225833-05	Client Sample Name: JPL-GW, DUP-2-4Q22, 10/25/2022 9:25:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	4.0	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	11/07/22 18:00	11/07/22 23:03	SAV	IC6	1	B153328	No Prep

DCN = Data Continuation Number

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Reported: 11/21/2022 11:06
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225833-05	Client Sample Name: JPL-GW, DUP-2-4Q22, 10/25/2022 9:25:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00043	mg/L	0.00020	0.000020	EPA-218.6	0.000031		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	11/01/22	16:00	11/01/22	20:06	KSA	IC-4	1	B152800	No Prep
2	EPA-200.8	11/02/22	19:10	11/03/22	10:59	ARD	PE-EL4	1	B152981	EPA 200.2

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Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225833-06	Client Sample Name: JPL-GW, MW-14-2, 10/25/2022 10:00:00AM
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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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.44	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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 3761 Attucks Drive
 Powell, OH 43065

Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225833-06	Client Sample Name:	JPL-GW, MW-14-2, 10/25/2022 10:00:00AM					
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	0.33	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	1.3	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND	V11	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	V11	1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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

Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225833-06	Client Sample Name: JPL-GW, MW-14-2, 10/25/2022 10:00:00AM
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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)	97.0	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.0	%	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	11/03/22 11:31	11/04/22 10:29	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number



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

Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225833-06	Client Sample Name: JPL-GW, MW-14-2, 10/25/2022 10:00:00AM
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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	11/03/22 11:31	11/04/22	10:29	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number



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

Reported: 11/21/2022 11:06
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225833-06	Client Sample Name: JPL-GW, MW-14-2, 10/25/2022 10:00:00AM
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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	11/07/22 18:00	11/07/22 23:19	SAV	IC6	1	B153328	No Prep

DCN = Data Continuation Number

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Reported: 11/21/2022 11:06
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225833-06	Client Sample Name: JPL-GW, MW-14-2, 10/25/2022 10:00:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	ND	mg/L	0.00020	0.000020	EPA-218.6	0.000031		1
Total Recoverable Chromium	0.58	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	11/01/22 16:00	11/01/22	20:16	KSA	IC-4	1	B152800	No Prep
2	EPA-200.8	11/02/22 19:10	11/03/22	12:21	KHS	PE-EL4	1	B152982	EPA 200.2

DCN = Data Continuation Number

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Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225833-07	Client Sample Name: JPL-GW, MW-25-5, 10/25/2022 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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

Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225833-07	Client Sample Name: JPL-GW, MW-25-5, 10/25/2022 11:20:00AM
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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	V11	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	V11	1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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

Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225833-07	Client Sample Name: JPL-GW, MW-25-5, 10/25/2022 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	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)	98.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.0	%	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	11/03/22 11:31	11/04/22 10:52	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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 Powell, OH 43065

Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225833-07	Client Sample Name: JPL-GW, MW-25-5, 10/25/2022 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	11/03/22 11:31	11/04/22 10:52	RCC	MS-V5	1	B152788	EPA 524.2

DCN = Data Continuation Number



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

Reported: 11/21/2022 11:06
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225833-07	Client Sample Name: JPL-GW, MW-25-5, 10/25/2022 11:20:00AM
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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	11/07/22 18:00	11/07/22 23:34	SAV	IC6	1	B153328	No Prep

DCN = Data Continuation Number

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Tidewater Inc. - Powell
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Reported: 11/21/2022 11:06
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225833-07	Client Sample Name: JPL-GW, MW-25-5, 10/25/2022 11:20:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.000078	mg/L	0.00020	0.000020	EPA-218.6	0.000031	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	11/01/22 16:00	11/01/22	20:45	KSA	IC-4	1	B152800	No Prep
2	EPA-200.8	11/02/22 19:10	11/03/22	12:44	KHS	PE-EL4	1	B152982	EPA 200.2

DCN = Data Continuation Number

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Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225833-08	Client Sample Name: JPL-GW, MW-25-4, 10/25/2022 12:05:00PM
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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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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 Powell, OH 43065

Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225833-08		Client Sample Name: JPL-GW, MW-25-4, 10/25/2022 12:05:00PM						
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	V11	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: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225833-08	Client Sample Name: JPL-GW, MW-25-4, 10/25/2022 12:05:00PM
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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)	97.7	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.5	%	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	11/04/22 12:00	11/04/22 14:43	RCC	MS-V5	1	B153142	EPA 524.2

DCN = Data Continuation Number



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

Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225833-08	Client Sample Name: JPL-GW, MW-25-4, 10/25/2022 12:05:00PM
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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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	11/04/22 12:00	11/04/22 14:43	RCC	MS-V5	1	B153142	EPA 524.2

DCN = Data Continuation Number



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

Reported: 11/21/2022 11:06
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225833-08	Client Sample Name: JPL-GW, MW-25-4, 10/25/2022 12:05:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	8.2	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	11/07/22 18:00	11/07/22 23:49	SAV	IC6	1	B153328	No Prep

DCN = Data Continuation Number

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Reported: 11/21/2022 11:06
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225833-08	Client Sample Name: JPL-GW, MW-25-4, 10/25/2022 12:05:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.0012	mg/L	0.00020	0.000020	EPA-218.6	0.000031		1
Total Recoverable Chromium	1.2	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	11/01/22	16:00	11/01/22	20:54	KSA	IC-4	1	B152800	No Prep
2	EPA-200.8	11/02/22	19:10	11/03/22	12:46	KHS	PE-EL4	1	B152982	EPA 200.2

DCN = Data Continuation Number

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Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225833-09	Client Sample Name: JPL-GW, MW-25-3, 10/25/2022 12:35:00PM
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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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.25	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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Tidewater Inc. - Powell
 3761 Attucks Drive
 Powell, OH 43065

Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225833-09	Client Sample Name:	JPL-GW, MW-25-3, 10/25/2022 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	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	V11	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: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225833-09	Client Sample Name: JPL-GW, MW-25-3, 10/25/2022 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		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)	96.6	%	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	11/04/22 12:00	11/04/22 15:07	RCC	MS-V5	1	B153142	EPA 524.2

DCN = Data Continuation Number



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

Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225833-09	Client Sample Name: JPL-GW, MW-25-3, 10/25/2022 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	11/04/22 12:00	11/04/22	15:07	RCC	MS-V5	1	B153142	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 11/21/2022 11:06
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225833-09	Client Sample Name: JPL-GW, MW-25-3, 10/25/2022 12:35:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	9.7	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	11/07/22 18:00	11/08/22 00:05	SAV	IC6	1	B153328	No Prep

DCN = Data Continuation Number

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Reported: 11/21/2022 11:06
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225833-09	Client Sample Name: JPL-GW, MW-25-3, 10/25/2022 12:35:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.0035	mg/L	0.00020	0.000020	EPA-218.6	0.000031		1
Total Recoverable Chromium	3.4	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	11/01/22 16:00	11/01/22	21:04	KSA	IC-4	1	B152800	No Prep
2	EPA-200.8	11/02/22 19:10	11/03/22	12:48	KHS	PE-EL4	1	B152982	EPA 200.2

DCN = Data Continuation Number



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Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225833-10 **Client Sample Name:** JPL-GW, MW-25-2, 10/25/2022 1:05:00PM

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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.17	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
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 Powell, OH 43065

Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225833-10	Client Sample Name:	JPL-GW, MW-25-2, 10/25/2022 1:05:00PM					
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	0.34	ug/L	0.50	0.23	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	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	V11	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: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225833-10 **Client Sample Name:** JPL-GW, MW-25-2, 10/25/2022 1:05:00PM

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)	97.0	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.5	%	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	11/04/22 12:00	11/04/22 15:31	RCC	MS-V5	1	B153142	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225833-10	Client Sample Name: JPL-GW, MW-25-2, 10/25/2022 1:05:00PM
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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	11/04/22 12:00	11/04/22	15:31	RCC	MS-V5	1	B153142	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 11/21/2022 11:06
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225833-10	Client Sample Name: JPL-GW, MW-25-2, 10/25/2022 1:05:00PM
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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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	11/07/22 18:00	11/08/22 00:20	SAV	IC6	1	B153328	No Prep

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Reported: 11/21/2022 11:06
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225833-10	Client Sample Name: JPL-GW, MW-25-2, 10/25/2022 1:05:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.0028	mg/L	0.00020	0.000020	EPA-218.6	0.000031		1
Total Recoverable Chromium	2.8	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	11/01/22 16:00	11/01/22	21:13	KSA	IC-4	1	B152800	No Prep
2	EPA-200.8	11/02/22 19:10	11/03/22	12:50	KHS	PE-EL4	1	B152982	EPA 200.2

DCN = Data Continuation Number

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Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225833-11 **Client Sample Name:** JPL-GW, DUP-3-4Q22, 10/25/2022 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.18	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: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225833-11	Client Sample Name:	JPL-GW, DUP-3-4Q22, 10/25/2022 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	0.28	ug/L	0.50	0.23	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	0.22	ug/L	0.50	0.19	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	0.50	0.48	EPA-524.2	ND	V11	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: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225833-11	Client Sample Name: JPL-GW, DUP-3-4Q22, 10/25/2022 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)	95.6	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.6	%	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	11/04/22 12:00	11/04/22 15:55	RCC	MS-V5	1	B153142	EPA 524.2

DCN = Data Continuation Number



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Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225833-11	Client Sample Name: JPL-GW, DUP-3-4Q22, 10/25/2022 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	11/04/22 12:00	11/04/22	15:55	RCC	MS-V5	1	B153142	EPA 524.2

DCN = Data Continuation Number



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Reported: 11/21/2022 11:06
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225833-11	Client Sample Name: JPL-GW, DUP-3-4Q22, 10/25/2022 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	11/07/22 18:00	11/08/22 00:35	SAV	IC6	1	B153328	No Prep

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Reported: 11/21/2022 11:06
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225833-11	Client Sample Name: JPL-GW, DUP-3-4Q22, 10/25/2022 1:15:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.0030	mg/L	0.00020	0.000020	EPA-218.6	0.000031		1
Total Recoverable Chromium	3.0	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	11/01/22 16:00	11/01/22 21:23		KSA	IC-4	1	B152800	No Prep
2	EPA-200.8	11/02/22 19:10	11/03/22 12:52		KHS	PE-EL4	1	B152982	EPA 200.2

DCN = Data Continuation Number

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Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225833-12 **Client Sample Name:** JPL-GW, MW-25-1, 10/25/2022 1:35:00PM

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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.44	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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Tidewater Inc. - Powell
 3761 Attucks Drive
 Powell, OH 43065

Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225833-12	Client Sample Name:	JPL-GW, MW-25-1, 10/25/2022 1:35:00PM					
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	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	V11	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: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225833-12	Client Sample Name: JPL-GW, MW-25-1, 10/25/2022 1:35:00PM
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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		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)	98.2	%	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	11/04/22 12:00	11/04/22 16:19	RCC	MS-V5	1	B153142	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225833-12	Client Sample Name: JPL-GW, MW-25-1, 10/25/2022 1:35:00PM
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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	11/04/22 12:00	11/04/22	16:19	RCC	MS-V5	1	B153142	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
 3761 Attucks Drive
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Reported: 11/21/2022 11:06
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225833-12	Client Sample Name: JPL-GW, MW-25-1, 10/25/2022 1:35:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	7.0	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	11/07/22 18:00	11/08/22 01:21	SAV	IC6	1	B153328	No Prep

DCN = Data Continuation Number

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Reported: 11/21/2022 11:06
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225833-12	Client Sample Name: JPL-GW, MW-25-1, 10/25/2022 1:35:00PM							
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	1.8	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	11/02/22 08:00	11/02/22	13:11	RC1	IC-4	1	B152802	No Prep
2	EPA-200.8	11/02/22 19:10	11/03/22	12:54	KHS	PE-EL4	1	B152982	EPA 200.2

DCN = Data Continuation Number

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Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225833-13 **Client Sample Name:** JPL-GW, EB-2-102522, 10/25/2022 1:40:00PM

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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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 Powell, OH 43065

Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225833-13 **Client Sample Name:** JPL-GW, EB-2-102522, 10/25/2022 1:40:00PM

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	V11	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: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225833-13	Client Sample Name: JPL-GW, EB-2-102522, 10/25/2022 1:40:00PM
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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)	96.5	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.3	%	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	11/04/22 12:00	11/04/22 16:43	RCC	MS-V5	1	B153142	EPA 524.2

DCN = Data Continuation Number



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

Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225833-13	Client Sample Name: JPL-GW, EB-2-102522, 10/25/2022 1:40:00PM
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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	11/04/22 12:00	11/04/22	16:43	RCC	MS-V5	1	B153142	EPA 524.2

DCN = Data Continuation Number



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

Reported: 11/21/2022 11:06
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225833-13	Client Sample Name: JPL-GW, EB-2-102522, 10/25/2022 1:40:00PM
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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	11/07/22 18:00	11/08/22 01:37	SAV	IC6	1	B153328	No Prep

DCN = Data Continuation Number

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Reported: 11/21/2022 11:06
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225833-13	Client Sample Name: JPL-GW, EB-2-102522, 10/25/2022 1:40:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.000065	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	11/02/22 08:00	11/02/22 13:21		RC1	IC-4	1	B152802	No Prep
2	EPA-200.8	11/02/22 19:10	11/03/22 12:56		KHS	PE-EL4	1	B152982	EPA 200.2

DCN = Data Continuation Number

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Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
QC Batch ID: B152788							
Benzene	B152788-BLK1	ND	ug/L	0.50	0.11		1
Bromobenzene	B152788-BLK1	ND	ug/L	0.50	0.15		1
Bromochloromethane	B152788-BLK1	ND	ug/L	0.50	0.27		1
Bromodichloromethane	B152788-BLK1	ND	ug/L	0.50	0.20		1
Bromoform	B152788-BLK1	ND	ug/L	0.50	0.46		1
Bromomethane	B152788-BLK1	ND	ug/L	0.50	0.20		1
n-Butylbenzene	B152788-BLK1	ND	ug/L	0.50	0.15		1
sec-Butylbenzene	B152788-BLK1	ND	ug/L	0.50	0.13		1
tert-Butylbenzene	B152788-BLK1	ND	ug/L	0.50	0.18		1
Carbon tetrachloride	B152788-BLK1	ND	ug/L	0.50	0.17		1
Chlorobenzene	B152788-BLK1	ND	ug/L	0.50	0.14		1
Chloroethane	B152788-BLK1	ND	ug/L	0.50	0.17		1
Chloroform	B152788-BLK1	ND	ug/L	0.50	0.14		1
Chloromethane	B152788-BLK1	ND	ug/L	0.50	0.11		1
2-Chlorotoluene	B152788-BLK1	ND	ug/L	0.50	0.14		1
4-Chlorotoluene	B152788-BLK1	ND	ug/L	0.50	0.093		1
Dibromochloromethane	B152788-BLK1	ND	ug/L	0.50	0.22		1
1,2-Dibromo-3-chloropropane	B152788-BLK1	ND	ug/L	1.0	0.89		1
1,2-Dibromoethane	B152788-BLK1	ND	ug/L	0.50	0.22		1
Dibromomethane	B152788-BLK1	ND	ug/L	0.50	0.23		1
1,2-Dichlorobenzene	B152788-BLK1	ND	ug/L	0.50	0.21		1
1,3-Dichlorobenzene	B152788-BLK1	ND	ug/L	0.50	0.16		1
1,4-Dichlorobenzene	B152788-BLK1	ND	ug/L	0.50	0.15		1
Dichlorodifluoromethane	B152788-BLK1	ND	ug/L	0.50	0.15		1
1,1-Dichloroethane	B152788-BLK1	ND	ug/L	0.50	0.15		1
1,2-Dichloroethane	B152788-BLK1	ND	ug/L	0.50	0.17		1
1,1-Dichloroethene	B152788-BLK1	ND	ug/L	0.50	0.27		1
cis-1,2-Dichloroethene	B152788-BLK1	ND	ug/L	0.50	0.27		1
trans-1,2-Dichloroethene	B152788-BLK1	ND	ug/L	0.50	0.17		1
1,2-Dichloropropane	B152788-BLK1	ND	ug/L	0.50	0.15		1
1,3-Dichloropropane	B152788-BLK1	ND	ug/L	0.50	0.13		1
2,2-Dichloropropane	B152788-BLK1	ND	ug/L	0.50	0.18		1
1,1-Dichloropropene	B152788-BLK1	ND	ug/L	0.50	0.19		1
cis-1,3-Dichloropropene	B152788-BLK1	ND	ug/L	0.50	0.14		1

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 3761 Attucks Drive
 Powell, OH 43065

Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
QC Batch ID: B152788							
trans-1,3-Dichloropropene	B152788-BLK1	ND	ug/L	0.50	0.13		1
Ethylbenzene	B152788-BLK1	ND	ug/L	0.50	0.15		1
Hexachlorobutadiene	B152788-BLK1	ND	ug/L	0.50	0.20		1
Isopropylbenzene	B152788-BLK1	ND	ug/L	0.50	0.14		1
p-Isopropyltoluene	B152788-BLK1	ND	ug/L	0.50	0.14		1
Methylene chloride	B152788-BLK1	ND	ug/L	0.50	0.21		1
Methyl t-butyl ether	B152788-BLK1	ND	ug/L	0.50	0.14		1
Naphthalene	B152788-BLK1	ND	ug/L	0.50	0.16		1
n-Propylbenzene	B152788-BLK1	ND	ug/L	0.50	0.12		1
Styrene	B152788-BLK1	ND	ug/L	0.50	0.12		1
1,1,1,2-Tetrachloroethane	B152788-BLK1	ND	ug/L	0.50	0.21		1
1,1,1,2,2-Tetrachloroethane	B152788-BLK1	ND	ug/L	0.50	0.17		1
Tetrachloroethene	B152788-BLK1	ND	ug/L	0.50	0.23		1
Toluene	B152788-BLK1	ND	ug/L	0.50	0.17		1
1,2,3-Trichlorobenzene	B152788-BLK1	ND	ug/L	0.50	0.19		1
1,2,4-Trichlorobenzene	B152788-BLK1	ND	ug/L	0.50	0.15		1
1,1,1-Trichloroethane	B152788-BLK1	ND	ug/L	0.50	0.21		1
1,1,2-Trichloroethane	B152788-BLK1	ND	ug/L	0.50	0.21		1
Trichloroethene	B152788-BLK1	ND	ug/L	0.50	0.19		1
Trichlorofluoromethane	B152788-BLK1	ND	ug/L	0.50	0.14		1
1,2,3-Trichloropropane	B152788-BLK1	ND	ug/L	1.0	0.78		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B152788-BLK1	ND	ug/L	0.50	0.19		1
1,2,4-Trimethylbenzene	B152788-BLK1	ND	ug/L	0.50	0.17		1
1,3,5-Trimethylbenzene	B152788-BLK1	ND	ug/L	0.50	0.14		1
Vinyl chloride	B152788-BLK1	ND	ug/L	0.50	0.18		1
Acetone	B152788-BLK1	ND	ug/L	10	6.6		1
Acrylonitrile	B152788-BLK1	ND	ug/L	5.0	1.5		1
Allyl chloride	B152788-BLK1	ND	ug/L	5.0	0.47		1
t-Amyl Methyl ether	B152788-BLK1	ND	ug/L	0.50	0.19		1
t-Butyl alcohol	B152788-BLK1	ND	ug/L	2.0	2.0		1
Carbon disulfide	B152788-BLK1	ND	ug/L	0.50	0.48		1
trans-1,4-Dichloro-2-butene	B152788-BLK1	ND	ug/L	5.0	1.8		1
Diethyl ether	B152788-BLK1	ND	ug/L	2.0	0.33		1
Ethyl methacrylate	B152788-BLK1	ND	ug/L	4.0	1.3		1

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

Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
QC Batch ID: B152788							
Ethyl t-butyl ether	B152788-BLK1	ND	ug/L	0.50	0.32		1
Hexachloroethane	B152788-BLK1	ND	ug/L	0.50	0.11		1
2-Hexanone	B152788-BLK1	ND	ug/L	10	5.0		1
Methacrylonitrile	B152788-BLK1	ND	ug/L	10	2.3		1
Methyl ethyl ketone	B152788-BLK1	ND	ug/L	5.0	3.3		1
Methyl iodide	B152788-BLK1	ND	ug/L	2.0	1.1		1
Methyl isobutyl ketone	B152788-BLK1	ND	ug/L	5.0	2.4		1
Methyl methacrylate	B152788-BLK1	ND	ug/L	5.0	1.2		1
Pentachloroethane	B152788-BLK1	ND	ug/L	2.0	0.63		1
Propionitrile	B152788-BLK1	ND	ug/L	20	6.2		1
Tetrahydrofuran	B152788-BLK1	ND	ug/L	20	5.2		1
p- & m-Xylenes	B152788-BLK1	ND	ug/L	0.50	0.34		1
o-Xylene	B152788-BLK1	ND	ug/L	0.50	0.13		1
1,2-Dichloroethane-d4 (Surrogate)	B152788-BLK1	91.6	%	75 - 125 (LCL - UCL)			1
Toluene-d8 (Surrogate)	B152788-BLK1	97.4	%	80 - 120 (LCL - UCL)			1
4-Bromofluorobenzene (Surrogate)	B152788-BLK1	98.5	%	80 - 120 (LCL - UCL)			1
QC Batch ID: B153142							
Benzene	B153142-BLK1	ND	ug/L	0.50	0.11		2
Bromobenzene	B153142-BLK1	ND	ug/L	0.50	0.15		2
Bromochloromethane	B153142-BLK1	ND	ug/L	0.50	0.27		2
Bromodichloromethane	B153142-BLK1	ND	ug/L	0.50	0.20		2
Bromoform	B153142-BLK1	ND	ug/L	0.50	0.46		2
Bromomethane	B153142-BLK1	ND	ug/L	0.50	0.20		2
n-Butylbenzene	B153142-BLK1	ND	ug/L	0.50	0.15		2
sec-Butylbenzene	B153142-BLK1	ND	ug/L	0.50	0.13		2
tert-Butylbenzene	B153142-BLK1	ND	ug/L	0.50	0.18		2
Carbon tetrachloride	B153142-BLK1	ND	ug/L	0.50	0.17		2
Chlorobenzene	B153142-BLK1	ND	ug/L	0.50	0.14		2
Chloroethane	B153142-BLK1	ND	ug/L	0.50	0.17		2
Chloroform	B153142-BLK1	ND	ug/L	0.50	0.14		2
Chloromethane	B153142-BLK1	ND	ug/L	0.50	0.11		2
2-Chlorotoluene	B153142-BLK1	ND	ug/L	0.50	0.14		2
4-Chlorotoluene	B153142-BLK1	ND	ug/L	0.50	0.093		2

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 3761 Attucks Drive
 Powell, OH 43065

Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
QC Batch ID: B153142							
Dibromochloromethane	B153142-BLK1	ND	ug/L	0.50	0.22		2
1,2-Dibromo-3-chloropropane	B153142-BLK1	ND	ug/L	1.0	0.89		2
1,2-Dibromoethane	B153142-BLK1	ND	ug/L	0.50	0.22		2
Dibromomethane	B153142-BLK1	ND	ug/L	0.50	0.23		2
1,2-Dichlorobenzene	B153142-BLK1	ND	ug/L	0.50	0.21		2
1,3-Dichlorobenzene	B153142-BLK1	ND	ug/L	0.50	0.16		2
1,4-Dichlorobenzene	B153142-BLK1	ND	ug/L	0.50	0.15		2
Dichlorodifluoromethane	B153142-BLK1	ND	ug/L	0.50	0.15		2
1,1-Dichloroethane	B153142-BLK1	ND	ug/L	0.50	0.15		2
1,2-Dichloroethane	B153142-BLK1	ND	ug/L	0.50	0.17		2
1,1-Dichloroethene	B153142-BLK1	ND	ug/L	0.50	0.27		2
cis-1,2-Dichloroethene	B153142-BLK1	ND	ug/L	0.50	0.27		2
trans-1,2-Dichloroethene	B153142-BLK1	ND	ug/L	0.50	0.17		2
1,2-Dichloropropane	B153142-BLK1	ND	ug/L	0.50	0.15		2
1,3-Dichloropropane	B153142-BLK1	ND	ug/L	0.50	0.13		2
2,2-Dichloropropane	B153142-BLK1	ND	ug/L	0.50	0.18		2
1,1-Dichloropropene	B153142-BLK1	ND	ug/L	0.50	0.19		2
cis-1,3-Dichloropropene	B153142-BLK1	ND	ug/L	0.50	0.14		2
trans-1,3-Dichloropropene	B153142-BLK1	ND	ug/L	0.50	0.13		2
Ethylbenzene	B153142-BLK1	ND	ug/L	0.50	0.15		2
Hexachlorobutadiene	B153142-BLK1	ND	ug/L	0.50	0.20		2
Isopropylbenzene	B153142-BLK1	ND	ug/L	0.50	0.14		2
p-Isopropyltoluene	B153142-BLK1	ND	ug/L	0.50	0.14		2
Methylene chloride	B153142-BLK1	ND	ug/L	0.50	0.21		2
Methyl t-butyl ether	B153142-BLK1	ND	ug/L	0.50	0.14		2
Naphthalene	B153142-BLK1	ND	ug/L	0.50	0.16		2
n-Propylbenzene	B153142-BLK1	ND	ug/L	0.50	0.12		2
Styrene	B153142-BLK1	ND	ug/L	0.50	0.12		2
1,1,1,2-Tetrachloroethane	B153142-BLK1	ND	ug/L	0.50	0.21		2
1,1,2,2-Tetrachloroethane	B153142-BLK1	ND	ug/L	0.50	0.17		2
Tetrachloroethene	B153142-BLK1	ND	ug/L	0.50	0.23		2
Toluene	B153142-BLK1	ND	ug/L	0.50	0.17		2
1,2,3-Trichlorobenzene	B153142-BLK1	ND	ug/L	0.50	0.19		2
1,2,4-Trichlorobenzene	B153142-BLK1	ND	ug/L	0.50	0.15		2

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 3761 Attucks Drive
 Powell, OH 43065

Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
QC Batch ID: B153142							
1,1,1-Trichloroethane	B153142-BLK1	ND	ug/L	0.50	0.21		2
1,1,2-Trichloroethane	B153142-BLK1	ND	ug/L	0.50	0.21		2
Trichloroethene	B153142-BLK1	ND	ug/L	0.50	0.19		2
Trichlorofluoromethane	B153142-BLK1	ND	ug/L	0.50	0.14		2
1,2,3-Trichloropropane	B153142-BLK1	ND	ug/L	1.0	0.78		2
1,1,2-Trichloro-1,2,2-trifluoroethane	B153142-BLK1	ND	ug/L	0.50	0.19		2
1,2,4-Trimethylbenzene	B153142-BLK1	ND	ug/L	0.50	0.17		2
1,3,5-Trimethylbenzene	B153142-BLK1	ND	ug/L	0.50	0.14		2
Vinyl chloride	B153142-BLK1	ND	ug/L	0.50	0.18		2
Acetone	B153142-BLK1	ND	ug/L	10	6.6		2
Acrylonitrile	B153142-BLK1	ND	ug/L	5.0	1.5		2
Allyl chloride	B153142-BLK1	ND	ug/L	5.0	0.47		2
t-Amyl Methyl ether	B153142-BLK1	ND	ug/L	0.50	0.19		2
t-Butyl alcohol	B153142-BLK1	ND	ug/L	2.0	2.0		2
Carbon disulfide	B153142-BLK1	ND	ug/L	0.50	0.48		2
trans-1,4-Dichloro-2-butene	B153142-BLK1	ND	ug/L	5.0	1.8		2
Diethyl ether	B153142-BLK1	ND	ug/L	2.0	0.33		2
Ethyl methacrylate	B153142-BLK1	ND	ug/L	4.0	1.3		2
Ethyl t-butyl ether	B153142-BLK1	ND	ug/L	0.50	0.32		2
Hexachloroethane	B153142-BLK1	ND	ug/L	0.50	0.11		2
2-Hexanone	B153142-BLK1	ND	ug/L	10	5.0		2
Methacrylonitrile	B153142-BLK1	ND	ug/L	10	2.3		2
Methyl ethyl ketone	B153142-BLK1	ND	ug/L	5.0	3.3		2
Methyl iodide	B153142-BLK1	ND	ug/L	2.0	1.1		2
Methyl isobutyl ketone	B153142-BLK1	ND	ug/L	5.0	2.4		2
Methyl methacrylate	B153142-BLK1	ND	ug/L	5.0	1.2		2
Pentachloroethane	B153142-BLK1	ND	ug/L	2.0	0.63		2
Propionitrile	B153142-BLK1	ND	ug/L	20	6.2		2
Tetrahydrofuran	B153142-BLK1	ND	ug/L	20	5.2		2
p- & m-Xylenes	B153142-BLK1	ND	ug/L	0.50	0.34		2
o-Xylene	B153142-BLK1	ND	ug/L	0.50	0.13		2
1,2-Dichloroethane-d4 (Surrogate)	B153142-BLK1	93.5	%	75 - 125 (LCL - UCL)			2
Toluene-d8 (Surrogate)	B153142-BLK1	99.7	%	80 - 120 (LCL - UCL)			2
4-Bromofluorobenzene (Surrogate)	B153142-BLK1	93.2	%	80 - 120 (LCL - UCL)			2

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

Reported: 11/21/2022 11:06
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B152788-BLK1	PB	EPA-524.2	11/03/22	11/03/22	18:31	RCC	MS-V5	1
2	B153142-BLK1	PB	EPA-524.2	11/04/22	11/06/22	12:52	RCC	MS-V5	1

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 Powell, OH 43065

Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
								Percent Recovery	RPD		
QC Batch ID: B152788											
Benzene	B152788-BS1	LCS	20.890	25.000	ug/L	83.6		70 - 130			1
Bromodichloromethane	B152788-BS1	LCS	26.450	25.000	ug/L	106		70 - 130			1
Chlorobenzene	B152788-BS1	LCS	24.380	25.000	ug/L	97.5		70 - 130			1
Chloroethane	B152788-BS1	LCS	23.080	25.000	ug/L	92.3		70 - 130			1
1,4-Dichlorobenzene	B152788-BS1	LCS	25.760	25.000	ug/L	103		70 - 130			1
1,1-Dichloroethane	B152788-BS1	LCS	21.340	25.000	ug/L	85.4		70 - 130			1
1,1-Dichloroethene	B152788-BS1	LCS	22.780	25.000	ug/L	91.1		70 - 130			1
Toluene	B152788-BS1	LCS	22.810	25.000	ug/L	91.2		70 - 130			1
Trichloroethene	B152788-BS1	LCS	23.850	25.000	ug/L	95.4		70 - 130			1
1,2-Dichloroethane-d4 (Surrogate)	B152788-BS1	LCS	9.3400	10.000	ug/L	93.4		75 - 125			1
Toluene-d8 (Surrogate)	B152788-BS1	LCS	9.9500	10.000	ug/L	99.5		80 - 120			1
4-Bromofluorobenzene (Surrogate)	B152788-BS1	LCS	10.070	10.000	ug/L	101		80 - 120			1
QC Batch ID: B153142											
Benzene	B153142-BS1	LCS	22.080	25.000	ug/L	88.3		70 - 130			2
Bromodichloromethane	B153142-BS1	LCS	26.900	25.000	ug/L	108		70 - 130			2
Chlorobenzene	B153142-BS1	LCS	25.100	25.000	ug/L	100		70 - 130			2
Chloroethane	B153142-BS1	LCS	22.700	25.000	ug/L	90.8		70 - 130			2
1,4-Dichlorobenzene	B153142-BS1	LCS	26.790	25.000	ug/L	107		70 - 130			2
1,1-Dichloroethane	B153142-BS1	LCS	22.560	25.000	ug/L	90.2		70 - 130			2
1,1-Dichloroethene	B153142-BS1	LCS	24.140	25.000	ug/L	96.6		70 - 130			2
Toluene	B153142-BS1	LCS	23.470	25.000	ug/L	93.9		70 - 130			2
Trichloroethene	B153142-BS1	LCS	23.340	25.000	ug/L	93.4		70 - 130			2
1,2-Dichloroethane-d4 (Surrogate)	B153142-BS1	LCS	9.6200	10.000	ug/L	96.2		75 - 125			2
Toluene-d8 (Surrogate)	B153142-BS1	LCS	9.9900	10.000	ug/L	99.9		80 - 120			2
4-Bromofluorobenzene (Surrogate)	B153142-BS1	LCS	9.9800	10.000	ug/L	99.8		80 - 120			2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B152788-BS1	LCS	EPA-524.2	11/03/22	11/04/22 00:30	RCC	MS-V5	1
2	B153142-BS1	LCS	EPA-524.2	11/04/22	11/06/22 13:40	RCC	MS-V5	1

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

Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	R#
									RPD	Percent Recovery		
QC Batch ID: B152788		Used client sample: N										
Benzene	MS	2225756-02	ND	21.030	25.000	ug/L		84.1		70 - 130		1
	MSD	2225756-02	ND	21.290	25.000	ug/L	1.2	85.2	20	70 - 130		2
Bromodichloromethane	MS	2225756-02	ND	27.250	25.000	ug/L		109		70 - 130		1
	MSD	2225756-02	ND	27.430	25.000	ug/L	0.7	110	20	70 - 130		2
Chlorobenzene	MS	2225756-02	ND	24.180	25.000	ug/L		96.7		70 - 130		1
	MSD	2225756-02	ND	24.850	25.000	ug/L	2.7	99.4	20	70 - 130		2
Chloroethane	MS	2225756-02	ND	23.140	25.000	ug/L		92.6		70 - 130		1
	MSD	2225756-02	ND	23.030	25.000	ug/L	0.5	92.1	20	70 - 130		2
1,4-Dichlorobenzene	MS	2225756-02	ND	25.570	25.000	ug/L		102		70 - 130		1
	MSD	2225756-02	ND	26.630	25.000	ug/L	4.1	107	20	70 - 130		2
1,1-Dichloroethane	MS	2225756-02	ND	21.490	25.000	ug/L		86.0		70 - 130		1
	MSD	2225756-02	ND	21.550	25.000	ug/L	0.3	86.2	20	70 - 130		2
1,1-Dichloroethene	MS	2225756-02	ND	22.930	25.000	ug/L		91.7		70 - 130		1
	MSD	2225756-02	ND	23.240	25.000	ug/L	1.3	93.0	20	70 - 130		2
Toluene	MS	2225756-02	ND	23.600	25.000	ug/L		94.4		70 - 130		1
	MSD	2225756-02	ND	23.750	25.000	ug/L	0.6	95.0	20	70 - 130		2
Trichloroethene	MS	2225756-02	ND	23.420	25.000	ug/L		93.7		70 - 130		1
	MSD	2225756-02	ND	24.000	25.000	ug/L	2.4	96.0	20	70 - 130		2
1,2-Dichloroethane-d4 (Surrogate)	MS	2225756-02	ND	9.2800	10.000	ug/L		92.8		75 - 125		1
	MSD	2225756-02	ND	9.2200	10.000	ug/L	0.6	92.2		75 - 125		2
Toluene-d8 (Surrogate)	MS	2225756-02	ND	9.8800	10.000	ug/L		98.8		80 - 120		1
	MSD	2225756-02	ND	9.9300	10.000	ug/L	0.5	99.3		80 - 120		2
4-Bromofluorobenzene (Surrogate)	MS	2225756-02	ND	9.8900	10.000	ug/L		98.9		80 - 120		1
	MSD	2225756-02	ND	9.8600	10.000	ug/L	0.3	98.6		80 - 120		2
QC Batch ID: B153142		Used client sample: N										
Benzene	MS	2225921-05	ND	22.210	25.000	ug/L		88.8		70 - 130		3
	MSD	2225921-05	ND	22.480	25.000	ug/L	1.2	89.9	20	70 - 130		4
Bromodichloromethane	MS	2225921-05	ND	27.160	25.000	ug/L		109		70 - 130		3
	MSD	2225921-05	ND	28.350	25.000	ug/L	4.3	113	20	70 - 130		4
Chlorobenzene	MS	2225921-05	ND	25.590	25.000	ug/L		102		70 - 130		3
	MSD	2225921-05	ND	25.630	25.000	ug/L	0.2	103	20	70 - 130		4
Chloroethane	MS	2225921-05	ND	22.840	25.000	ug/L		91.4		70 - 130		3
	MSD	2225921-05	ND	22.990	25.000	ug/L	0.7	92.0	20	70 - 130		4
1,4-Dichlorobenzene	MS	2225921-05	ND	27.540	25.000	ug/L		110		70 - 130		3
	MSD	2225921-05	ND	27.990	25.000	ug/L	1.6	112	20	70 - 130		4
1,1-Dichloroethane	MS	2225921-05	ND	22.750	25.000	ug/L		91.0		70 - 130		3
	MSD	2225921-05	ND	22.980	25.000	ug/L	1.0	91.9	20	70 - 130		4

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Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	R#
									RPD	Percent Recovery		
QC Batch ID: B153142		Used client sample: N										
1,1-Dichloroethene	MS	2225921-05	ND	24.190	25.000	ug/L		96.8		70 - 130		3
	MSD	2225921-05	ND	24.480	25.000	ug/L	1.2	97.9	20	70 - 130		4
Toluene	MS	2225921-05	ND	23.710	25.000	ug/L		94.8		70 - 130		3
	MSD	2225921-05	ND	24.250	25.000	ug/L	2.3	97.0	20	70 - 130		4
Trichloroethene	MS	2225921-05	ND	23.310	25.000	ug/L		93.2		70 - 130		3
	MSD	2225921-05	ND	24.020	25.000	ug/L	3.0	96.1	20	70 - 130		4
1,2-Dichloroethane-d4 (Surrogate)	MS	2225921-05	ND	9.6900	10.000	ug/L		96.9		75 - 125		3
	MSD	2225921-05	ND	9.3400	10.000	ug/L	3.7	93.4		75 - 125		4
Toluene-d8 (Surrogate)	MS	2225921-05	ND	9.9700	10.000	ug/L		99.7		80 - 120		3
	MSD	2225921-05	ND	9.9900	10.000	ug/L	0.2	99.9		80 - 120		4
4-Bromofluorobenzene (Surrogate)	MS	2225921-05	ND	10.210	10.000	ug/L		102		80 - 120		3
	MSD	2225921-05	ND	9.7300	10.000	ug/L	4.8	97.3		80 - 120		4

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B152788-MS1	MS	EPA-524.2	11/03/22	11/04/22 00:54	RCC	MS-V5	1
2	B152788-MSD1	MSD	EPA-524.2	11/03/22	11/04/22 01:18	RCC	MS-V5	1
3	B153142-MS1	MS	EPA-524.2	11/04/22	11/06/22 14:04	RCC	MS-V5	1
4	B153142-MSD1	MSD	EPA-524.2	11/04/22	11/06/22 14:28	RCC	MS-V5	1

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Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
QC Batch ID: B152788							
Nitrobenzene	B152788-BLK1	0	ug/L				1
Methyl acrylate	B152788-BLK1	0	ug/L				1
Chloroacetonitrile	B152788-BLK1	0	ug/L				1
2-Nitropropane	B152788-BLK1	0	ug/L				1
1-Chlorobutane	B152788-BLK1	0	ug/L				1
1,1-Dichloropropanone	B152788-BLK1	0	ug/L				1

QC Batch ID: B153142							
Nitrobenzene	B153142-BLK1	0	ug/L				2
Methyl acrylate	B153142-BLK1	0	ug/L				2
Chloroacetonitrile	B153142-BLK1	0	ug/L				2
2-Nitropropane	B153142-BLK1	0	ug/L				2
1-Chlorobutane	B153142-BLK1	0	ug/L				2
1,1-Dichloropropanone	B153142-BLK1	0	ug/L				2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B152788-BLK1	PB	EPA-524.2	11/03/22	11/03/22 18:31	RCC	MS-V5	1
2	B153142-BLK1	PB	EPA-524.2	11/04/22	11/06/22 12:52	RCC	MS-V5	1

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Reported: 11/21/2022 11:06
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
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QC Batch ID: B153328

Perchlorate	B153328-BLK1	ND	ug/L	2.0	0.81		1
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Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B153328-BLK1	PB	EPA-314.0	11/07/22	11/07/22 19:44	KSA	IC6	1

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 Project Number: 4Q22
 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	Run #
								Percent Recovery	RPD		
QC Batch ID: B153328											
Perchlorate	B153328-BS1	LCS	9.5370	10.000	ug/L	95.4		85	115		1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B153328-BS1	LCS	EPA-314.0	11/07/22	11/07/22 19:59	KSA	IC6	1

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 Project: JPL- GW Monitoring Wells-CLP
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 Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals	R#
									RPD	Percent Recovery		
QC Batch ID: B153328		Used client sample: N										
Perchlorate	DUP	2225705-06	ND	ND		ug/L			15			1
	MS	2225705-06	ND	9.4481	10.101	ug/L		93.5		80 - 120		2
	MSD	2225705-06	ND	9.3897	10.101	ug/L	0.6	93.0	15	80 - 120		3

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B153328-DUP1	DUP	EPA-314.0	11/07/22	11/07/22 20:30	KSA	IC6	1
2	B153328-MS1	MS	EPA-314.0	11/07/22	11/07/22 20:45	KSA	IC6	1.010
3	B153328-MSD1	MSD	EPA-314.0	11/07/22	11/07/22 21:01	KSA	IC6	1.010

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Reported: 11/21/2022 11:06
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 Project Number: 4Q22
 Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B152800							
Hexavalent Chromium	B152800-BLK1	0.000031000	mg/L	0.00020	0.000020	J	1
QC Batch ID: B152802							
Hexavalent Chromium	B152802-BLK1	ND	mg/L	0.00020	0.000020		2
QC Batch ID: B152981							
Total Recoverable Chromium	B152981-BLK1	ND	ug/L	3.0	0.50		3
QC Batch ID: B152982							
Total Recoverable Chromium	B152982-BLK1	ND	ug/L	3.0	0.50		4

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B152800-BLK1	PB	EPA-218.6	11/01/22	11/01/22 18:50	KSA	IC-4	1
2	B152802-BLK1	PB	EPA-218.6	11/02/22	11/02/22 11:55	RC1	IC-4	1
3	B152981-BLK1	PB	EPA-200.8	11/02/22	11/03/22 10:14	ARD	PE-EL4	1
4	B152982-BLK1	PB	EPA-200.8	11/02/22	11/03/22 12:19	KHS	PE-EL4	1

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Reported: 11/21/2022 11:06
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 Project Number: 4Q22
 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	Run #
								Percent Recovery	RPD		
QC Batch ID: B152800											
Hexavalent Chromium	B152800-BS1	LCS	0.019605	0.020000	mg/L	98.0		90 - 110			1
QC Batch ID: B152802											
Hexavalent Chromium	B152802-BS1	LCS	0.019472	0.020000	mg/L	97.4		90 - 110			2
QC Batch ID: B152981											
Total Recoverable Chromium	B152981-BS1	LCS	43.451	40.000	ug/L	109		85 - 115			3
QC Batch ID: B152982											
Total Recoverable Chromium	B152982-BS1	LCS	44.605	40.000	ug/L	112		85 - 115			4

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B152800-BS1	LCS	EPA-218.6	11/01/22	11/01/22	18:59	KSA	IC-4	1
2	B152802-BS1	LCS	EPA-218.6	11/02/22	11/02/22	12:04	RC1	IC-4	1
3	B152981-BS1	LCS	EPA-200.8	11/02/22	11/03/22	10:22	ARD	PE-EL4	1
4	B152982-BS1	LCS	EPA-200.8	11/02/22	11/03/22	12:27	KHS	PE-EL4	1

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 Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab	R#
									RPD	Percent Recovery		
QC Batch ID: B152800		Used client sample: Y - Description: MW-14-5, 10/25/2022 08:05										
Hexavalent Chromium	DUP	2225833-02	0.00020100	0.00019500		mg/L	3.0		10		J	1
	MS	2225833-02	0.00020100	0.019730	0.020202	mg/L		96.7		90 - 110		2
	MSD	2225833-02	0.00020100	0.019840	0.020202	mg/L	0.6	97.2	10	90 - 110		3
QC Batch ID: B152802		Used client sample: N										
Hexavalent Chromium	DUP	2225926-05	0.0018510	0.0018460		mg/L	0.3		10			4
	MS	2225926-05	0.0018510	0.021685	0.020202	mg/L		98.2		90 - 110		5
	MSD	2225926-05	0.0018510	0.021824	0.020202	mg/L	0.6	98.9	10	90 - 110		6
QC Batch ID: B152981		Used client sample: Y - Description: MW-14-5, 10/25/2022 08:05										
Total Recoverable Chromium	DUP	2225833-02	ND	ND		ug/L			20			7
	MS	2225833-02	ND	42.589	40.000	ug/L		106		70 - 130		8
	MSD	2225833-02	ND	41.484	40.000	ug/L	2.6	104	20	70 - 130		9
QC Batch ID: B152982		Used client sample: Y - Description: MW-14-2, 10/25/2022 10:00										
Total Recoverable Chromium	DUP	2225833-06	0.57700	0.72400		ug/L	22.6		20		J,A02	10
	MS	2225833-06	0.57700	39.635	40.000	ug/L		97.6		70 - 130		11
	MSD	2225833-06	0.57700	39.852	40.000	ug/L	0.5	98.2	20	70 - 130		12

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B152800-DUP1	DUP	EPA-218.6	11/01/22	11/01/22	19:18	KSA	IC-4	1
2	B152800-MS1	MS	EPA-218.6	11/01/22	11/01/22	19:28	KSA	IC-4	1.010
3	B152800-MSD1	MSD	EPA-218.6	11/01/22	11/01/22	19:38	KSA	IC-4	1.010
4	B152802-DUP1	DUP	EPA-218.6	11/02/22	11/02/22	12:24	RC1	IC-4	1
5	B152802-MS1	MS	EPA-218.6	11/02/22	11/02/22	12:33	RC1	IC-4	1.010
6	B152802-MSD1	MSD	EPA-218.6	11/02/22	11/02/22	13:02	RC1	IC-4	1.010
7	B152981-DUP1	DUP	EPA-200.8	11/02/22	11/03/22	10:18	ARD	PE-EL4	1
8	B152981-MS1	MS	EPA-200.8	11/02/22	11/03/22	10:24	ARD	PE-EL4	1
9	B152981-MSD1	MSD	EPA-200.8	11/02/22	11/03/22	10:26	ARD	PE-EL4	1
10	B152982-DUP1	DUP	EPA-200.8	11/02/22	11/03/22	12:23	KHS	PE-EL4	1
11	B152982-MS1	MS	EPA-200.8	11/02/22	11/03/22	12:28	KHS	PE-EL4	1
12	B152982-MSD1	MSD	EPA-200.8	11/02/22	11/03/22	12:30	KHS	PE-EL4	1

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

Reported: 11/21/2022 11:06
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A02 The difference between duplicate readings is less than the quantitation limit.
- V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.



Date of Report: 11/22/2022

David Conner

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

Client Project: 4Q22
BCL Project: JPL- GW Monitoring Wells-CLP
BCL Work Order: 2225921
Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 10/27/2022. 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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CGP-0A-10/27/22-2A-1 cooler

Chain of Custody Form



Page 1 of 7

77-25921

Client: **Tidewater, Inc.**
 Attn: **David Conner**
 Street Address: **3761 Allucks Drive**
 City: **Powell** State: **OH** Zip: **43065**
 Phone#: **626 1298** Fax#: **614 792 2897**
 Email Address: **david.conner@tidew2o.net**

Project Description: **JPL-GW Monitoring**
 Project Code: **4022**
 Sampler (s): **Blaine Tech**

Sample #	Sample Description	Date	Time	Matrix*	Analysis Requested							
					TRM: Cr	VOCs EPA 524.2	Perchlorate	Hexavalent Cr6 - 218.6 (ng/L)	Cl, NO3, NO2, SO4	Orthophosphate 365.1		
1	TB-4-102722	10/27/22	0740	W	X							
2	MW-17-5	0820		W	X	X	X					
3	MW-17-4	0905		W	X	X	X					
4	MW-17-3	0935		W	X	X	X					
5	MW-17-2	1005		W	X	X	X					
6	MW-3-5	1125		W	X	X	X					
7	MW-3-4	1200		W	X	X	X					
8	DUP-6-4022	1210		W	X	X	X					
9	MW-3-3	1250		W	X	X	X					
10	MW-3-2	1315		W	X	X	X					
11	EB-4-102722	1330		W	X	X	X					

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 requires Level IV Notified on C of C NOTE: ALL ANALYSIS REQUIRED TO HAVE CALIBRATION SUMMARIES (Inform QC)

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

Cost Center: 1. Relinquished By: _____ Date: 10/27/22 Time: 1430
 2. Relinquished By: _____ Date: 10/27/22 Time: 1415
 3. Relinquished By: _____ Date: 10/27/22 Time: 1415

Global ID: _____ Date: 10/27/22 Time: 1430

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

DO Cl₂ BOD MBAS COT

CHK BY: **MMZ** DISTRIBUTION SUB-OUT

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>1</u> Of <u>2</u>							
Submission #: <u>22-25921</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 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>0.98</u> Container: <u>PC</u> Thermometer ID: <u>274</u> Temperature: (A) <u>2.1</u> °C / (C) <u>2.1</u> °C		Date/Time <u>10/27/22 1915</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	D	D	D	D	D	D	D	D
2oz Cr*			E	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	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-C	A-C	A-C	A-C	A-C
QT EPA 1664B											
PT ODOR											
RADIOLOGICAL											
BACTERIOLOGICAL											
60 ml VOA VIAL- 504											
QT EPA 409608.38081A											
QT EPA 515.1/8151A											
QT EPA 525.2											
QT EPA 525.2 TRAVEL BLANK											
40ml EPA 547											
40ml EPA 521.1											
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: JLD Date/Time: 10/29/22 1335
 A = Actual / C = Corrected

Rev 23 05/20/22

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>2</u> Of <u>2</u>							
Submission #: <u>22-25921</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 / 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 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>0.98</u> Container: <u>PC</u> Thermometer ID: <u>274</u>		Date/Time <u>10/27/22</u> 1915							
		Temperature: (A) <u>2.1</u> °C / (C) <u>2.1</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		<u>D</u>									
2oz Cr*		<u>E</u>									
QT INORGANIC CHEMICAL METALS											
INORGANIC CHEMICAL METALS 4oz / 8oz (16oz)		<u>F</u>									
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		<u>A-C</u>									
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: XD Date/Time: 10/27/22 1335 Rev 23 05/20/22
 A = Actual / C = Corrected [S:\WP\Doc\Visio\PerfectLAB_Docs\FORMS\KOCRev 23]



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

Reported: 11/22/2022 13:40
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
2225921-01	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: TB-4-102722 Sampled By: BTST	Receive Date: 10/27/2022 19:15 Sampling Date: 10/27/2022 07:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-4-102722 Matrix: W Sample QC Type (SACode): CS Cooler ID:	
2225921-02	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-17-5 Sampled By: BTST	Receive Date: 10/27/2022 19:15 Sampling Date: 10/27/2022 08:20 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-17-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:	
2225921-03	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-17-4 Sampled By: BTST	Receive Date: 10/27/2022 19:15 Sampling Date: 10/27/2022 09:05 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-17-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:	

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

Reported: 11/22/2022 13:40
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information					
2225921-04	COC Number:	---	Receive Date:	10/27/2022 19:15		
	Project Number:	JPL	Sampling Date:	10/27/2022 09:35		
	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:	W		
			Sample QC Type (SACode):	CS		
		Cooler ID:				
2225921-05	COC Number:	---	Receive Date:	10/27/2022 19:15		
	Project Number:	JPL	Sampling Date:	10/27/2022 10:05		
	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:	W		
			Sample QC Type (SACode):	CS		
		Cooler ID:				
2225921-06	COC Number:	---	Receive Date:	10/27/2022 19:15		
	Project Number:	JPL	Sampling Date:	10/27/2022 11:25		
	Sampling Location:	---	Sample Depth:	---		
	Sampling Point:	MW-3-5	Lab Matrix:	Water		
	Sampled By:	BTST	Sample Type:	Water		
			Delivery Work Order:			
			Global ID:	0000000000		
			Location ID (FieldPoint):	MW-3-5		
			Matrix:	W		
			Sample QC Type (SACode):	CS		
		Cooler ID:				

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

Reported: 11/22/2022 13:40
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information						
2225921-07	COC Number:	---	Receive Date:	10/27/2022 19:15			
	Project Number:	JPL	Sampling Date:	10/27/2022 12:00			
	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:	W		
				Sample QC Type (SACode):	CS		
			Cooler ID:				
2225921-08	COC Number:	---	Receive Date:	10/27/2022 19:15			
	Project Number:	JPL	Sampling Date:	10/27/2022 12:10			
	Sampling Location:	---	Sample Depth:	---			
	Sampling Point:	DUP-6-4Q22	Lab Matrix:	Water			
	Sampled By:	BTST	Sample Type:	Water			
				Delivery Work Order:			
				Global ID:	0000000000		
				Location ID (FieldPoint):	DUP-6-4Q22		
				Matrix:	W		
				Sample QC Type (SACode):	CS		
			Cooler ID:				
2225921-09	COC Number:	---	Receive Date:	10/27/2022 19:15			
	Project Number:	JPL	Sampling Date:	10/27/2022 12:50			
	Sampling Location:	---	Sample Depth:	---			
	Sampling Point:	MW3-3	Lab Matrix:	Water			
	Sampled By:	BTST	Sample Type:	Water			
				Delivery Work Order:			
				Global ID:	0000000000		
				Location ID (FieldPoint):	MW3-3		
				Matrix:	W		
				Sample QC Type (SACode):	CS		
			Cooler ID:				

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

Reported: 11/22/2022 13:40
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
2225921-10	COC Number:	---	Receive Date: 10/27/2022 19:15
	Project Number:	JPL	Sampling Date: 10/27/2022 13:15
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	MW3-2	Lab Matrix: Water
	Sampled By:	BTST	Sample Type: Water
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): MW3-2
			Matrix: W
			Sample QC Type (SACode): CS
		Cooler ID:	
2225921-11	COC Number:	---	Receive Date: 10/27/2022 19:15
	Project Number:	JPL	Sampling Date: 10/27/2022 13:30
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	EB-4-102722	Lab Matrix: Water
	Sampled By:	BTST	Sample Type: Water
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): EB-4-102722
			Matrix: W
			Sample QC Type (SACode): CS
		Cooler ID:	

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

Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225921-01	Client Sample Name: JPL, TB-4-102722, 10/27/2022 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Tidewater Inc. - Powell
 3761 Attucks Drive
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Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225921-01 **Client Sample Name:** JPL, TB-4-102722, 10/27/2022 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	V11	1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225921-01	Client Sample Name: JPL, TB-4-102722, 10/27/2022 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)	97.0	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.8	%	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	11/04/22 12:00	11/04/22 17:07	RCC	MS-V5	1	B153142	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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 Powell, OH 43065

Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225921-01	Client Sample Name: JPL, TB-4-102722, 10/27/2022 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	11/04/22 12:00	11/04/22	17:07	RCC	MS-V5	1	B153142	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225921-02	Client Sample Name:	JPL, MW-17-5, 10/27/2022 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.67	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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 3761 Attucks Drive
 Powell, OH 43065

Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225921-02	Client Sample Name: JPL, MW-17-5, 10/27/2022 8:20:00AM
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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	0.44	ug/L	0.50	0.23	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	0.50	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	V11	1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND	V11	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: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225921-02	Client Sample Name: JPL, MW-17-5, 10/27/2022 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	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	V11	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)	94.1	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.2	%	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	11/04/22 12:00	11/06/22 15:40	RCC	MS-V5	1	B153142	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225921-02	Client Sample Name: JPL, MW-17-5, 10/27/2022 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	11/04/22 12:00	11/06/22	15:40	RCC	MS-V5	1	B153142	EPA 524.2

DCN = Data Continuation Number

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Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225921-02	Client Sample Name: JPL, MW-17-5, 10/27/2022 8:20:00AM
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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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	11/16/22 13:00	11/17/22 00:28	SAV	IC6	1	B154065	No Prep

DCN = Data Continuation Number

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Reported: 11/22/2022 13:40
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225921-02	Client Sample Name: JPL, MW-17-5, 10/27/2022 8:20:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.0017	mg/L	0.00020	0.000020	EPA-218.6	0.000025		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	11/02/22 08:00	11/02/22 10:09		RC1	IC-4	1	B152801	No Prep
2	EPA-200.8	11/07/22 19:55	11/08/22 15:35		ARD	PE-EL4	1	B153319	EPA 200.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225921-03		Client Sample Name: JPL, MW-17-4, 10/27/2022 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.57	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: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225921-03	Client Sample Name:	JPL, MW-17-4, 10/27/2022 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	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	0.29	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	V11	1	
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND	V11	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: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225921-03	Client Sample Name: JPL, MW-17-4, 10/27/2022 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	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	V11	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)	95.8	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.8	%	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	11/04/22 12:00	11/06/22 16:04	RCC	MS-V5	1	B153142	EPA 524.2

DCN = Data Continuation Number



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Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225921-03	Client Sample Name: JPL, MW-17-4, 10/27/2022 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	11/04/22 12:00	11/06/22	16:04	RCC	MS-V5	1	B153142	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 11/22/2022 13:40
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225921-03	Client Sample Name: JPL, MW-17-4, 10/27/2022 9:05:00AM
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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	11/16/22 13:00	11/17/22 00:43	SAV	IC6	1	B154065	No Prep

DCN = Data Continuation Number

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Reported: 11/22/2022 13:40
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225921-03	Client Sample Name: JPL, MW-17-4, 10/27/2022 9:05:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.0017	mg/L	0.00020	0.000020	EPA-218.6	0.000025		1
Total Recoverable Chromium	2.4	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	11/02/22 08:00	11/02/22 10:19		RC1	IC-4	1	B152801	No Prep
2	EPA-200.8	11/07/22 19:55	11/08/22 15:37		ARD	PE-EL4	1	B153319	EPA 200.2

DCN = Data Continuation Number



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Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225921-04 **Client Sample Name:** JPL, MW-17-3, 10/27/2022 9:35:00AM

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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225921-04 **Client Sample Name:** JPL, MW-17-3, 10/27/2022 9:35:00AM

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	0.77	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	V11	1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND	V11	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: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225921-04	Client Sample Name: JPL, MW-17-3, 10/27/2022 9:35:00AM
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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	V11	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)	98.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.0	%	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	11/04/22 12:00	11/06/22 16:28	RCC	MS-V5	1	B153142	EPA 524.2

DCN = Data Continuation Number



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

Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225921-04	Client Sample Name: JPL, MW-17-3, 10/27/2022 9:35:00AM
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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	11/04/22 12:00	11/06/22	16:28	RCC	MS-V5	1	B153142	EPA 524.2

DCN = Data Continuation Number



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

Reported: 11/22/2022 13:40
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225921-04	Client Sample Name: JPL, MW-17-3, 10/27/2022 9:35:00AM
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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	11/16/22 13:00	11/17/22 00:59	SAV	IC6	1	B154065	No Prep

DCN = Data Continuation Number

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Tidewater Inc. - Powell
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Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225921-04	Client Sample Name: JPL, MW-17-3, 10/27/2022 9:35:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.000099	mg/L	0.00020	0.000020	EPA-218.6	0.000025	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	11/02/22 08:00	11/02/22 10:28		RC1	IC-4	1	B152801	No Prep
2	EPA-200.8	11/07/22 19:55	11/08/22 15:39		ARD	PE-EL4	1	B153319	EPA 200.2

DCN = Data Continuation Number

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Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225921-05	Client Sample Name: JPL, MW-17-2, 10/27/2022 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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

Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225921-05	Client Sample Name: JPL, MW-17-2, 10/27/2022 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	V11	1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND	V11	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: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225921-05	Client Sample Name: JPL, MW-17-2, 10/27/2022 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		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND	V11	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)	99.0	%	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	11/04/22 12:00	11/06/22 13:16	RCC	MS-V5	1	B153142	EPA 524.2

DCN = Data Continuation Number



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

Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225921-05	Client Sample Name: JPL, MW-17-2, 10/27/2022 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	11/04/22 12:00	11/06/22	13:16	RCC	MS-V5	1	B153142	EPA 524.2

DCN = Data Continuation Number



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

Reported: 11/22/2022 13:40
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225921-05	Client Sample Name: JPL, MW-17-2, 10/27/2022 10:05:00AM
----------------------------------	--

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	11/16/22 13:00	11/16/22 19:21	KSA	IC6	1	B154065	No Prep

DCN = Data Continuation Number

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Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225921-05	Client Sample Name: JPL, MW-17-2, 10/27/2022 10:05:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.000081	mg/L	0.00020	0.000020	EPA-218.6	0.000025	J	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	11/02/22 08:00	11/02/22 09:31		RC1	IC-4	1	B152801	No Prep
2	EPA-200.8	11/07/22 19:55	11/08/22 15:14		ARD	PE-EL4	1	B153319	EPA 200.2

DCN = Data Continuation Number

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Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225921-06	Client Sample Name: JPL, MW-3-5, 10/27/2022 11:25:00AM
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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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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 Powell, OH 43065

Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225921-06	Client Sample Name: JPL, MW-3-5, 10/27/2022 11:25:00AM
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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	V11	1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND	V11	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: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225921-06	Client Sample Name: JPL, MW-3-5, 10/27/2022 11:25:00AM
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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		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND	V11	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)	99.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.3	%	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	11/04/22 12:00	11/06/22 16:52	RCC	MS-V5	1	B153142	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225921-06	Client Sample Name: JPL, MW-3-5, 10/27/2022 11:25:00AM
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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	11/04/22 12:00	11/06/22	16:52	RCC	MS-V5	1	B153142	EPA 524.2

DCN = Data Continuation Number

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Reported: 11/22/2022 13:40
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225921-06	Client Sample Name: JPL, MW-3-5, 10/27/2022 11:25:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	6.1	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	11/16/22 13:00	11/17/22 12:15	SAV	IC6	1	B154065	No Prep

DCN = Data Continuation Number

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Reported: 11/22/2022 13:40
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225921-06	Client Sample Name: JPL, MW-3-5, 10/27/2022 11:25:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00044	mg/L	0.00020	0.000020	EPA-218.6	0.000025		1
Total Recoverable Chromium	42	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	11/02/22 08:00	11/02/22 10:38		RC1	IC-4	1	B152801	No Prep
2	EPA-200.8	11/07/22 19:55	11/08/22 15:40		ARD	PE-EL4	1	B153319	EPA 200.2

DCN = Data Continuation Number

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Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225921-07	Client Sample Name: JPL, MW-3-4, 10/27/2022 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225921-07	Client Sample Name:	JPL, MW-3-4, 10/27/2022 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	V11	1	
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND	V11	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: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225921-07	Client Sample Name: JPL, MW-3-4, 10/27/2022 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		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND	V11	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)	98.1	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.6	%	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	11/04/22 12:00	11/06/22 17:16	RCC	MS-V5	1	B153142	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225921-07	Client Sample Name: JPL, MW-3-4, 10/27/2022 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	11/04/22 12:00	11/06/22	17:16	RCC	MS-V5	1	B153142	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 11/22/2022 13:40
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225921-07	Client Sample Name: JPL, MW-3-4, 10/27/2022 12:00:00PM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	5.0	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	11/16/22 13:00	11/17/22 01:30	SAV	IC6	1	B154065	No Prep

DCN = Data Continuation Number

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Reported: 11/22/2022 13:40
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225921-07	Client Sample Name: JPL, MW-3-4, 10/27/2022 12:00:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00027	mg/L	0.00020	0.000020	EPA-218.6	0.000025		1
Total Recoverable Chromium	14	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	11/02/22 08:00	11/02/22 11:07		RC1	IC-4	1	B152801	No Prep
2	EPA-200.8	11/07/22 19:55	11/08/22 15:42		ARD	PE-EL4	1	B153319	EPA 200.2

DCN = Data Continuation Number

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Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225921-08	Client Sample Name: JPL, DUP-6-4Q22, 10/27/2022 12:10:00PM
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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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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

Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225921-08	Client Sample Name:	JPL, DUP-6-4Q22, 10/27/2022 12:10:00PM						
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	V11	1	
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND	V11	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: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225921-08	Client Sample Name: JPL, DUP-6-4Q22, 10/27/2022 12:10:00PM
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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	V11	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)	95.5	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.0	%	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	11/04/22 12:00	11/06/22 17:40	RCC	MS-V5	1	B153142	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225921-08	Client Sample Name: JPL, DUP-6-4Q22, 10/27/2022 12:10:00PM
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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	11/04/22 12:00	11/06/22	17:40	RCC	MS-V5	1	B153142	EPA 524.2

DCN = Data Continuation Number

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Reported: 11/22/2022 13:40
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225921-08	Client Sample Name: JPL, DUP-6-4Q22, 10/27/2022 12:10:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	4.9	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	11/16/22 13:00	11/17/22 01:45	SAV	IC6	1	B154065	No Prep

DCN = Data Continuation Number

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Tidewater Inc. - Powell
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Reported: 11/22/2022 13:40
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225921-08	Client Sample Name: JPL, DUP-6-4Q22, 10/27/2022 12:10:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00026	mg/L	0.00020	0.000020	EPA-218.6	0.000025		1
Total Recoverable Chromium	12	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	11/02/22 08:00	11/02/22 11:16		RC1	IC-4	1	B152801	No Prep
2	EPA-200.8	11/07/22 19:55	11/08/22 15:44		ARD	PE-EL4	1	B153319	EPA 200.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225921-09	Client Sample Name: JPL, MW3-3, 10/27/2022 12:50:00PM
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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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225921-09 **Client Sample Name:** JPL, MW3-3, 10/27/2022 12:50:00PM

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	V11	1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND	V11	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: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225921-09	Client Sample Name: JPL, MW3-3, 10/27/2022 12:50:00PM
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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	V11	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)	99.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.8	%	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	11/04/22 12:00	11/06/22 18:04	RCC	MS-V5	1	B153142	EPA 524.2

DCN = Data Continuation Number



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

Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225921-09	Client Sample Name: JPL, MW3-3, 10/27/2022 12:50:00PM
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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	11/04/22 12:00	11/06/22	18:04	RCC	MS-V5	1	B153142	EPA 524.2

DCN = Data Continuation Number



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

Reported: 11/22/2022 13:40
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225921-09	Client Sample Name: JPL, MW3-3, 10/27/2022 12:50:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	6.0	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	11/18/22 11:00	11/18/22 13:07	SAV	IC6	1	B154204	No Prep

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Tidewater Inc. - Powell
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Reported: 11/22/2022 13:40
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225921-09	Client Sample Name: JPL, MW3-3, 10/27/2022 12:50:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00053	mg/L	0.00020	0.000020	EPA-218.6	0.000025		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	11/02/22 08:00	11/02/22 11:26		RC1	IC-4	1	B152801	No Prep
2	EPA-200.8	11/07/22 19:55	11/08/22 15:46		ARD	PE-EL4	1	B153319	EPA 200.2

DCN = Data Continuation Number

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Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225921-10	Client Sample Name: JPL, MW3-2, 10/27/2022 1:15:00PM
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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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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 3761 Attucks Drive
 Powell, OH 43065

Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225921-10 **Client Sample Name:** JPL, MW3-2, 10/27/2022 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	V11	1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND	V11	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: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225921-10	Client Sample Name: JPL, MW3-2, 10/27/2022 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	V11	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)	98.0	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.9	%	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	11/04/22 12:00	11/06/22 18:28	RCC	MS-V5	1	B153142	EPA 524.2

DCN = Data Continuation Number



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

Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225921-10	Client Sample Name: JPL, MW3-2, 10/27/2022 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	11/04/22 12:00	11/06/22	18:28	RCC	MS-V5	1	B153142	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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 Powell, OH 43065

Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225921-10	Client Sample Name: JPL, MW3-2, 10/27/2022 1:15:00PM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	4.6	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	11/08/22 17:00	11/09/22 00:13	SAV	IC6	1	B153451	No Prep

DCN = Data Continuation Number

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Reported: 11/22/2022 13:40
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225921-10	Client Sample Name: JPL, MW3-2, 10/27/2022 1:15:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00046	mg/L	0.00020	0.000020	EPA-218.6	0.000025		1
Total Recoverable Chromium	0.85	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	11/02/22 08:00	11/02/22 11:36		RC1	IC-4	1	B152801	No Prep
2	EPA-200.8	11/07/22 19:55	11/09/22 10:09		KHS	PE-EL4	1	B153320	EPA 200.2

DCN = Data Continuation Number

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Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225921-11 **Client Sample Name:** JPL, EB-4-102722, 10/27/2022 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225921-11 **Client Sample Name:** JPL, EB-4-102722, 10/27/2022 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	V11	1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND	V11	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: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225921-11	Client Sample Name: JPL, EB-4-102722, 10/27/2022 1:30:00PM
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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		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND	V11	1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	99.0	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.4	%	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	11/04/22 12:00	11/06/22 18:52	RCC	MS-V5	1	B153142	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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 Powell, OH 43065

Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225921-11	Client Sample Name: JPL, EB-4-102722, 10/27/2022 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	11/04/22 12:00	11/06/22	18:52	RCC	MS-V5	1	B153142	EPA 524.2

DCN = Data Continuation Number

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Reported: 11/22/2022 13:40
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225921-11	Client Sample Name: JPL, EB-4-102722, 10/27/2022 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	11/08/22 17:00	11/09/22 00:29	SAV	IC6	1	B153451	No Prep

DCN = Data Continuation Number

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Reported: 11/22/2022 13:40
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225921-11	Client Sample Name: JPL, EB-4-102722, 10/27/2022 1:30:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00010	mg/L	0.00020	0.000020	EPA-218.6	0.000025	J	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	11/02/22 08:00	11/02/22 11:45		RC1	IC-4	1	B152801	No Prep
2	EPA-200.8	11/07/22 19:55	11/09/22 10:11		KHS	PE-EL4	1	B153320	EPA 200.2

DCN = Data Continuation Number

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Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
QC Batch ID: B153142							
Benzene	B153142-BLK1	ND	ug/L	0.50	0.11		1
Bromobenzene	B153142-BLK1	ND	ug/L	0.50	0.15		1
Bromochloromethane	B153142-BLK1	ND	ug/L	0.50	0.27		1
Bromodichloromethane	B153142-BLK1	ND	ug/L	0.50	0.20		1
Bromoform	B153142-BLK1	ND	ug/L	0.50	0.46		1
Bromomethane	B153142-BLK1	ND	ug/L	0.50	0.20		1
n-Butylbenzene	B153142-BLK1	ND	ug/L	0.50	0.15		1
sec-Butylbenzene	B153142-BLK1	ND	ug/L	0.50	0.13		1
tert-Butylbenzene	B153142-BLK1	ND	ug/L	0.50	0.18		1
Carbon tetrachloride	B153142-BLK1	ND	ug/L	0.50	0.17		1
Chlorobenzene	B153142-BLK1	ND	ug/L	0.50	0.14		1
Chloroethane	B153142-BLK1	ND	ug/L	0.50	0.17		1
Chloroform	B153142-BLK1	ND	ug/L	0.50	0.14		1
Chloromethane	B153142-BLK1	ND	ug/L	0.50	0.11		1
2-Chlorotoluene	B153142-BLK1	ND	ug/L	0.50	0.14		1
4-Chlorotoluene	B153142-BLK1	ND	ug/L	0.50	0.093		1
Dibromochloromethane	B153142-BLK1	ND	ug/L	0.50	0.22		1
1,2-Dibromo-3-chloropropane	B153142-BLK1	ND	ug/L	1.0	0.89		1
1,2-Dibromoethane	B153142-BLK1	ND	ug/L	0.50	0.22		1
Dibromomethane	B153142-BLK1	ND	ug/L	0.50	0.23		1
1,2-Dichlorobenzene	B153142-BLK1	ND	ug/L	0.50	0.21		1
1,3-Dichlorobenzene	B153142-BLK1	ND	ug/L	0.50	0.16		1
1,4-Dichlorobenzene	B153142-BLK1	ND	ug/L	0.50	0.15		1
Dichlorodifluoromethane	B153142-BLK1	ND	ug/L	0.50	0.15		1
1,1-Dichloroethane	B153142-BLK1	ND	ug/L	0.50	0.15		1
1,2-Dichloroethane	B153142-BLK1	ND	ug/L	0.50	0.17		1
1,1-Dichloroethene	B153142-BLK1	ND	ug/L	0.50	0.27		1
cis-1,2-Dichloroethene	B153142-BLK1	ND	ug/L	0.50	0.27		1
trans-1,2-Dichloroethene	B153142-BLK1	ND	ug/L	0.50	0.17		1
1,2-Dichloropropane	B153142-BLK1	ND	ug/L	0.50	0.15		1
1,3-Dichloropropane	B153142-BLK1	ND	ug/L	0.50	0.13		1
2,2-Dichloropropane	B153142-BLK1	ND	ug/L	0.50	0.18		1
1,1-Dichloropropene	B153142-BLK1	ND	ug/L	0.50	0.19		1
cis-1,3-Dichloropropene	B153142-BLK1	ND	ug/L	0.50	0.14		1

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Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
QC Batch ID: B153142							
trans-1,3-Dichloropropene	B153142-BLK1	ND	ug/L	0.50	0.13		1
Ethylbenzene	B153142-BLK1	ND	ug/L	0.50	0.15		1
Hexachlorobutadiene	B153142-BLK1	ND	ug/L	0.50	0.20		1
Isopropylbenzene	B153142-BLK1	ND	ug/L	0.50	0.14		1
p-Isopropyltoluene	B153142-BLK1	ND	ug/L	0.50	0.14		1
Methylene chloride	B153142-BLK1	ND	ug/L	0.50	0.21		1
Methyl t-butyl ether	B153142-BLK1	ND	ug/L	0.50	0.14		1
Naphthalene	B153142-BLK1	ND	ug/L	0.50	0.16		1
n-Propylbenzene	B153142-BLK1	ND	ug/L	0.50	0.12		1
Styrene	B153142-BLK1	ND	ug/L	0.50	0.12		1
1,1,1,2-Tetrachloroethane	B153142-BLK1	ND	ug/L	0.50	0.21		1
1,1,1,2,2-Tetrachloroethane	B153142-BLK1	ND	ug/L	0.50	0.17		1
Tetrachloroethene	B153142-BLK1	ND	ug/L	0.50	0.23		1
Toluene	B153142-BLK1	ND	ug/L	0.50	0.17		1
1,2,3-Trichlorobenzene	B153142-BLK1	ND	ug/L	0.50	0.19		1
1,2,4-Trichlorobenzene	B153142-BLK1	ND	ug/L	0.50	0.15		1
1,1,1-Trichloroethane	B153142-BLK1	ND	ug/L	0.50	0.21		1
1,1,2-Trichloroethane	B153142-BLK1	ND	ug/L	0.50	0.21		1
Trichloroethene	B153142-BLK1	ND	ug/L	0.50	0.19		1
Trichlorofluoromethane	B153142-BLK1	ND	ug/L	0.50	0.14		1
1,2,3-Trichloropropane	B153142-BLK1	ND	ug/L	1.0	0.78		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B153142-BLK1	ND	ug/L	0.50	0.19		1
1,2,4-Trimethylbenzene	B153142-BLK1	ND	ug/L	0.50	0.17		1
1,3,5-Trimethylbenzene	B153142-BLK1	ND	ug/L	0.50	0.14		1
Vinyl chloride	B153142-BLK1	ND	ug/L	0.50	0.18		1
Acetone	B153142-BLK1	ND	ug/L	10	6.6		1
Acrylonitrile	B153142-BLK1	ND	ug/L	5.0	1.5		1
Allyl chloride	B153142-BLK1	ND	ug/L	5.0	0.47		1
t-Amyl Methyl ether	B153142-BLK1	ND	ug/L	0.50	0.19		1
t-Butyl alcohol	B153142-BLK1	ND	ug/L	2.0	2.0		1
Carbon disulfide	B153142-BLK1	ND	ug/L	0.50	0.48		1
trans-1,4-Dichloro-2-butene	B153142-BLK1	ND	ug/L	5.0	1.8		1
Diethyl ether	B153142-BLK1	ND	ug/L	2.0	0.33		1
Ethyl methacrylate	B153142-BLK1	ND	ug/L	4.0	1.3		1

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Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
QC Batch ID: B153142							
Ethyl t-butyl ether	B153142-BLK1	ND	ug/L	0.50	0.32		1
Hexachloroethane	B153142-BLK1	ND	ug/L	0.50	0.11		1
2-Hexanone	B153142-BLK1	ND	ug/L	10	5.0		1
Methacrylonitrile	B153142-BLK1	ND	ug/L	10	2.3		1
Methyl ethyl ketone	B153142-BLK1	ND	ug/L	5.0	3.3		1
Methyl iodide	B153142-BLK1	ND	ug/L	2.0	1.1		1
Methyl isobutyl ketone	B153142-BLK1	ND	ug/L	5.0	2.4		1
Methyl methacrylate	B153142-BLK1	ND	ug/L	5.0	1.2		1
Pentachloroethane	B153142-BLK1	ND	ug/L	2.0	0.63		1
Propionitrile	B153142-BLK1	ND	ug/L	20	6.2		1
Tetrahydrofuran	B153142-BLK1	ND	ug/L	20	5.2		1
p- & m-Xylenes	B153142-BLK1	ND	ug/L	0.50	0.34		1
o-Xylene	B153142-BLK1	ND	ug/L	0.50	0.13		1
1,2-Dichloroethane-d4 (Surrogate)	B153142-BLK1	93.5	%	75 - 125 (LCL - UCL)			1
Toluene-d8 (Surrogate)	B153142-BLK1	99.7	%	80 - 120 (LCL - UCL)			1
4-Bromofluorobenzene (Surrogate)	B153142-BLK1	93.2	%	80 - 120 (LCL - UCL)			1

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Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
								Percent Recovery	RPD		
QC Batch ID: B153142											
Benzene	B153142-BS1	LCS	22.080	25.000	ug/L	88.3		70 - 130			1
Bromodichloromethane	B153142-BS1	LCS	26.900	25.000	ug/L	108		70 - 130			1
Chlorobenzene	B153142-BS1	LCS	25.100	25.000	ug/L	100		70 - 130			1
Chloroethane	B153142-BS1	LCS	22.700	25.000	ug/L	90.8		70 - 130			1
1,4-Dichlorobenzene	B153142-BS1	LCS	26.790	25.000	ug/L	107		70 - 130			1
1,1-Dichloroethane	B153142-BS1	LCS	22.560	25.000	ug/L	90.2		70 - 130			1
1,1-Dichloroethene	B153142-BS1	LCS	24.140	25.000	ug/L	96.6		70 - 130			1
Toluene	B153142-BS1	LCS	23.470	25.000	ug/L	93.9		70 - 130			1
Trichloroethene	B153142-BS1	LCS	23.340	25.000	ug/L	93.4		70 - 130			1
1,2-Dichloroethane-d4 (Surrogate)	B153142-BS1	LCS	9.6200	10.000	ug/L	96.2		75 - 125			1
Toluene-d8 (Surrogate)	B153142-BS1	LCS	9.9900	10.000	ug/L	99.9		80 - 120			1
4-Bromofluorobenzene (Surrogate)	B153142-BS1	LCS	9.9800	10.000	ug/L	99.8		80 - 120			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B153142-BS1	LCS	EPA-524.2	11/04/22	11/06/22	13:40	RCC	MS-V5	1
1	B153142-BS1	LCS	EPA-524.2	11/04/22	11/06/22	13:40	RCC	MS-V5	1
1	B153142-BS1	LCS	EPA-524.2	11/04/22	11/06/22	13:40	RCC	MS-V5	1
1	B153142-BS1	LCS	EPA-524.2	11/04/22	11/06/22	13:40	RCC	MS-V5	1
1	B153142-BS1	LCS	EPA-524.2	11/04/22	11/06/22	13:40	RCC	MS-V5	1
1	B153142-BS1	LCS	EPA-524.2	11/04/22	11/06/22	13:40	RCC	MS-V5	1
1	B153142-BS1	LCS	EPA-524.2	11/04/22	11/06/22	13:40	RCC	MS-V5	1
1	B153142-BS1	LCS	EPA-524.2	11/04/22	11/06/22	13:40	RCC	MS-V5	1
1	B153142-BS1	LCS	EPA-524.2	11/04/22	11/06/22	13:40	RCC	MS-V5	1
1	B153142-BS1	LCS	EPA-524.2	11/04/22	11/06/22	13:40	RCC	MS-V5	1
1	B153142-BS1	LCS	EPA-524.2	11/04/22	11/06/22	13:40	RCC	MS-V5	1
1	B153142-BS1	LCS	EPA-524.2	11/04/22	11/06/22	13:40	RCC	MS-V5	1
1	B153142-BS1	LCS	EPA-524.2	11/04/22	11/06/22	13:40	RCC	MS-V5	1
1	B153142-BS1	LCS	EPA-524.2	11/04/22	11/06/22	13:40	RCC	MS-V5	1

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Tidewater Inc. - Powell
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 Powell, OH 43065

Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	R#
									RPD	Percent Recovery		
QC Batch ID: B153142		Used client sample: Y - Description: MW-17-2, 10/27/2022 10:05										
Benzene	MS	2225921-05	ND	22.210	25.000	ug/L		88.8		70 - 130		1
	MSD	2225921-05	ND	22.480	25.000	ug/L	1.2	89.9	20	70 - 130		2
Bromodichloromethane	MS	2225921-05	ND	27.160	25.000	ug/L		109		70 - 130		1
	MSD	2225921-05	ND	28.350	25.000	ug/L	4.3	113	20	70 - 130		2
Chlorobenzene	MS	2225921-05	ND	25.590	25.000	ug/L		102		70 - 130		1
	MSD	2225921-05	ND	25.630	25.000	ug/L	0.2	103	20	70 - 130		2
Chloroethane	MS	2225921-05	ND	22.840	25.000	ug/L		91.4		70 - 130		1
	MSD	2225921-05	ND	22.990	25.000	ug/L	0.7	92.0	20	70 - 130		2
1,4-Dichlorobenzene	MS	2225921-05	ND	27.540	25.000	ug/L		110		70 - 130		1
	MSD	2225921-05	ND	27.990	25.000	ug/L	1.6	112	20	70 - 130		2
1,1-Dichloroethane	MS	2225921-05	ND	22.750	25.000	ug/L		91.0		70 - 130		1
	MSD	2225921-05	ND	22.980	25.000	ug/L	1.0	91.9	20	70 - 130		2
1,1-Dichloroethene	MS	2225921-05	ND	24.190	25.000	ug/L		96.8		70 - 130		1
	MSD	2225921-05	ND	24.480	25.000	ug/L	1.2	97.9	20	70 - 130		2
Toluene	MS	2225921-05	ND	23.710	25.000	ug/L		94.8		70 - 130		1
	MSD	2225921-05	ND	24.250	25.000	ug/L	2.3	97.0	20	70 - 130		2
Trichloroethene	MS	2225921-05	ND	23.310	25.000	ug/L		93.2		70 - 130		1
	MSD	2225921-05	ND	24.020	25.000	ug/L	3.0	96.1	20	70 - 130		2
1,2-Dichloroethane-d4 (Surrogate)	MS	2225921-05	ND	9.6900	10.000	ug/L		96.9		75 - 125		1
	MSD	2225921-05	ND	9.3400	10.000	ug/L	3.7	93.4		75 - 125		2
Toluene-d8 (Surrogate)	MS	2225921-05	ND	9.9700	10.000	ug/L		99.7		80 - 120		1
	MSD	2225921-05	ND	9.9900	10.000	ug/L	0.2	99.9		80 - 120		2
4-Bromofluorobenzene (Surrogate)	MS	2225921-05	ND	10.210	10.000	ug/L		102		80 - 120		1
	MSD	2225921-05	ND	9.7300	10.000	ug/L	4.8	97.3		80 - 120		2

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

Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
QC Batch ID: B153142							
Nitrobenzene	B153142-BLK1	0	ug/L				1
Methyl acrylate	B153142-BLK1	0	ug/L				1
Chloroacetonitrile	B153142-BLK1	0	ug/L				1
2-Nitropropane	B153142-BLK1	0	ug/L				1
1-Chlorobutane	B153142-BLK1	0	ug/L				1
1,1-Dichloropropanone	B153142-BLK1	0	ug/L				1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B153142-BLK1	PB	EPA-524.2	11/04/22	11/06/22	12:52	RCC	MS-V5	1
1	B153142-BLK1	PB	EPA-524.2	11/04/22	11/06/22	12:52	RCC	MS-V5	1
1	B153142-BLK1	PB	EPA-524.2	11/04/22	11/06/22	12:52	RCC	MS-V5	1
1	B153142-BLK1	PB	EPA-524.2	11/04/22	11/06/22	12:52	RCC	MS-V5	1
1	B153142-BLK1	PB	EPA-524.2	11/04/22	11/06/22	12:52	RCC	MS-V5	1
1	B153142-BLK1	PB	EPA-524.2	11/04/22	11/06/22	12:52	RCC	MS-V5	1

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

Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
-------------	--------------	-----------	-------	-----	-----	-----------	-------

QC Batch ID: B153451							
Perchlorate	B153451-BLK1	ND	ug/L	2.0	0.81		1

QC Batch ID: B154065							
Perchlorate	B154065-BLK1	ND	ug/L	2.0	0.81		2

QC Batch ID: B154204							
Perchlorate	B154204-BLK1	ND	ug/L	2.0	0.81		3

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B153451-BLK1	PB	EPA-314.0	11/08/22	11/08/22	19:53	SAV	IC6	1
2	B154065-BLK1	PB	EPA-314.0	11/16/22	11/16/22	18:51	KSA	IC6	1
3	B154204-BLK1	PB	EPA-314.0	11/18/22	11/18/22	12:36	SAV	IC6	1

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

Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
								Percent Recovery	RPD		
QC Batch ID: B153451											
Perchlorate	B153451-BS1	LCS	9.5537	10.000	ug/L	95.5		85 - 115			1
QC Batch ID: B154065											
Perchlorate	B154065-BS1	LCS	9.9484	10.000	ug/L	99.5		85 - 115			2
QC Batch ID: B154204											
Perchlorate	B154204-BS1	LCS	10.814	10.000	ug/L	108		85 - 115			3

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B153451-BS1	LCS	EPA-314.0	11/08/22	11/08/22	20:08	SAV	IC6	1
2	B154065-BS1	LCS	EPA-314.0	11/16/22	11/16/22	19:06	KSA	IC6	1
3	B154204-BS1	LCS	EPA-314.0	11/18/22	11/18/22	12:52	SAV	IC6	1

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

Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Source Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals	R#
									RPD	Percent Recovery		
QC Batch ID: B153451		Used client sample: N										
Perchlorate	DUP	2225521-09	3.7288	3.7754		ug/L	1.2		15			1
	MS	2225521-09	3.7288	13.010	10.000	ug/L		92.8		80 - 120		2
	MSD	2225521-09	3.7288	13.248	10.000	ug/L	1.8	95.2	15	80 - 120		3
QC Batch ID: B154065		Used client sample: Y - Description: MW-17-2, 10/27/2022 10:05										
Perchlorate	DUP	2225921-05	ND	ND		ug/L			15			4
	MS	2225921-05	ND	9.4551	10.101	ug/L		93.6		80 - 120		5
	MSD	2225921-05	ND	9.2983	10.101	ug/L	1.7	92.1	15	80 - 120		6
QC Batch ID: B154204		Used client sample: Y - Description: MW3-3, 10/27/2022 12:50										
Perchlorate	DUP	2225921-09	6.0409	6.0386		ug/L	0.0		15			7
	MS	2225921-09	6.0409	15.913	10.101	ug/L		97.7		80 - 120		8
	MSD	2225921-09	6.0409	16.004	10.101	ug/L	0.6	98.6	15	80 - 120		9

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B153451-DUP1	DUP	EPA-314.0	11/08/22	11/08/22 20:39	SAV	IC6	1
2	B153451-MS1	MS	EPA-314.0	11/08/22	11/08/22 20:54	SAV	IC6	1
3	B153451-MSD1	MSD	EPA-314.0	11/08/22	11/08/22 21:09	SAV	IC6	1
4	B154065-DUP1	DUP	EPA-314.0	11/16/22	11/16/22 19:37	KSA	IC6	1
5	B154065-MS1	MS	EPA-314.0	11/16/22	11/16/22 19:52	SAV	IC6	1.010
6	B154065-MSD1	MSD	EPA-314.0	11/16/22	11/16/22 20:07	SAV	IC6	1.010
7	B154204-DUP1	DUP	EPA-314.0	11/18/22	11/18/22 13:22	SAV	IC6	1
8	B154204-MS1	MS	EPA-314.0	11/18/22	11/18/22 13:38	SAV	IC6	1.010
9	B154204-MSD1	MSD	EPA-314.0	11/18/22	11/18/22 13:53	SAV	IC6	1.010

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 Powell, OH 43065

Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
-------------	--------------	-----------	-------	-----	-----	-----------	-------

QC Batch ID: B152801							
Hexavalent Chromium	B152801-BLK1	0.000025000	mg/L	0.00020	0.000020	J	1

QC Batch ID: B153319							
Total Recoverable Chromium	B153319-BLK1	ND	ug/L	3.0	0.50		2

QC Batch ID: B153320							
Total Recoverable Chromium	B153320-BLK1	ND	ug/L	3.0	0.50		3

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B152801-BLK1	PB	EPA-218.6	11/02/22	11/02/22	09:12	RC1	IC-4	1
2	B153319-BLK1	PB	EPA-200.8	11/07/22	11/08/22	15:12	ARD	PE-EL4	1
3	B153320-BLK1	PB	EPA-200.8	11/07/22	11/09/22	09:45	KHS	PE-EL4	1

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Tidewater Inc. - Powell
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Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
								Percent Recovery	RPD		
QC Batch ID: B152801											
Hexavalent Chromium	B152801-BS1	LCS	0.019320	0.020000	mg/L	96.6		90 - 110			1
QC Batch ID: B153319											
Total Recoverable Chromium	B153319-BS1	LCS	41.272	40.000	ug/L	103		85 - 115			2
QC Batch ID: B153320											
Total Recoverable Chromium	B153320-BS1	LCS	42.107	40.000	ug/L	105		85 - 115			3

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B152801-BS1	LCS	EPA-218.6	11/02/22	11/02/22	09:21	RC1	IC-4	1
2	B153319-BS1	LCS	EPA-200.8	11/07/22	11/08/22	15:19	ARD	PE-EL4	1
3	B153320-BS1	LCS	EPA-200.8	11/07/22	11/09/22	09:53	KHS	PE-EL4	1

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Tidewater Inc. - Powell
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 Powell, OH 43065

Reported: 11/22/2022 13:40
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	R#
									RPD	Percent Recovery		
QC Batch ID: B152801		Used client sample: Y - Description: MW-17-2, 10/27/2022 10:05										
Hexavalent Chromium	DUP	2225921-05	0.000081000	0.000099000		mg/L	20.0		10		J,A02	1
	MS	2225921-05	0.000081000	0.020681	0.020202	mg/L		102		90 - 110		2
	MSD	2225921-05	0.000081000	0.019708	0.020202	mg/L	4.8	97.2	10	90 - 110		3
QC Batch ID: B153319		Used client sample: Y - Description: MW-17-2, 10/27/2022 10:05										
Total Recoverable Chromium	DUP	2225921-05	ND	ND		ug/L			20			4
	MS	2225921-05	ND	38.206	40.000	ug/L		95.5		70 - 130		5
	MSD	2225921-05	ND	38.124	40.000	ug/L	0.2	95.3	20	70 - 130		6
QC Batch ID: B153320		Used client sample: N										
Total Recoverable Chromium	DUP	2225926-05	1.9210	2.0430		ug/L	6.2		20		J	7
	MS	2225926-05	1.9210	42.230	40.000	ug/L		101		70 - 130		8
	MSD	2225926-05	1.9210	41.596	40.000	ug/L	1.5	99.2	20	70 - 130		9

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B152801-DUP1	DUP	EPA-218.6	11/02/22	11/02/22 09:41	RC1	IC-4	1
2	B152801-MS1	MS	EPA-218.6	11/02/22	11/02/22 09:50	RC1	IC-4	1.010
3	B152801-MSD1	MSD	EPA-218.6	11/02/22	11/02/22 10:00	RC1	IC-4	1.010
4	B153319-DUP1	DUP	EPA-200.8	11/07/22	11/08/22 15:16	ARD	PE-EL4	1
5	B153319-MS1	MS	EPA-200.8	11/07/22	11/08/22 15:21	ARD	PE-EL4	1
6	B153319-MSD1	MSD	EPA-200.8	11/07/22	11/08/22 15:23	ARD	PE-EL4	1
7	B153320-DUP1	DUP	EPA-200.8	11/07/22	11/09/22 09:49	KHS	PE-EL4	1
8	B153320-MS1	MS	EPA-200.8	11/07/22	11/09/22 09:55	KHS	PE-EL4	1
9	B153320-MSD1	MSD	EPA-200.8	11/07/22	11/09/22 09:57	KHS	PE-EL4	1

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

Reported: 11/22/2022 13:40
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A02 The difference between duplicate readings is less than the quantitation limit.
- V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.



Date of Report: 11/21/2022

David Conner

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

Client Project: [none]
BCL Project: JPL- GW Monitoring Wells-CLP
BCL Work Order: 2225926
Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 10/28/2022. 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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261-03-10/28/22-3A-1cooler

Chain of Custody Form

BC Laboratories, Inc.

Page 1 of 2

*Required Fields 22-25926

Client: Tidewater, 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@tidewat.net		Project Description: JPL-GW Monitoring Project Code: 4Q22 Sampler (s): Blaine Tech		Analysis Requested Orthophosphate 365.1 Cl, NO3, NO2, SO4 Hexavalent Cr6 -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? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No *Standard Turnaround = 10	
Sample #	Sample Description	Date	Time	Matrix*	Notes	Global ID:	
-1	TB-5-108822	10/28/22	0700	W	Laboratory, please select 2 SDOs for level IV validation	1 Received By: [Signature] Date: 10/28/22 Time: 1330	
-2	MW-23-5		0805	W		2. Requisitioned By: [Signature] Date: 10/28/22 Time: 1630	
-3	MW-23-4		0840	W		3. Requisitioned By: [Signature] Date: 10/28/22 Time: 1630	
-4	MW-23-3		0915	W			
-5	MW-23-2		0945	W			
-6	MW-26-2		1200	W			
-7	EB-5-108822		1815	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)

Cost Center:
 1. Being Quisited By: [Signature] Date: 10/28/22 Time: 1330
 2. Requisitioned By: [Signature] Date: 10/28/22 Time: 1630
 3. Requisitioned By: [Signature] Date: 10/28/22 Time: 1630

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.pacelabs.com

CHK BY: [Signature] **DISTRIBUTION:** [Signature] **SUB-OUT:**

HOLDING TIME: DO Cl₂ BOD MBAS COT SS

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u> </u> Of <u> </u>	
Submission #: <u>22-29926</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> / 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>0.98</u> Container: <u>PE</u> Thermometer ID: <u>337</u>		Date/Time: <u>10-28-22</u>	
		Temperature: (A) <u>2.5</u> °C / (C) <u>2.4</u> °C		Analyst Init: <u>SmtH 16:30</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / QT PE UNPRES		D	D	D	G,H	D	D			
2oz Cr*		E	E	E	I,J	E	E			
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / (Cap)		F	F	F	K,L	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-C	A-C	A-F	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										
5oz EPA 548.1										
QT EPA 549.2										
QT EPA 8915M										
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: JCD Date/Time: 10/29/22 1400 Rev 23 05/20/22
 A = Actual / C = Corrected [S:\WP\Dev\Veri\Ref\FJAR_DOC\FORMS\SAMR2Crev 20]



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

Reported: 11/21/2022 10:47
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information					
2225926-01	COC Number:	---	Receive Date:	10/28/2022 16:30		
	Project Number:	JPL	Sampling Date:	10/28/2022 07:00		
	Sampling Location:	---	Sample Depth:	---		
	Sampling Point:	TB-5-102822	Lab Matrix:	Water		
	Sampled By:	BTST	Sample Type:	Water		
	Delivery Work Order:					
	Global ID: 0000000000					
	Location ID (FieldPoint): TB-5-102822					
	Matrix: W					
	Sample QC Type (SACode): CS					
Cooler ID:						
2225926-02	COC Number:	---	Receive Date:	10/28/2022 16:30		
	Project Number:	JPL	Sampling Date:	10/28/2022 08:05		
	Sampling Location:	---	Sample Depth:	---		
	Sampling Point:	MW-23-5	Lab Matrix:	Water		
	Sampled By:	BTST	Sample Type:	Water		
	Delivery Work Order:					
	Global ID: 0000000000					
	Location ID (FieldPoint): MW-23-5					
	Matrix: W					
	Sample QC Type (SACode): CS					
Cooler ID:						
2225926-03	COC Number:	---	Receive Date:	10/28/2022 16:30		
	Project Number:	JPL	Sampling Date:	10/28/2022 08:40		
	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: W					
	Sample QC Type (SACode): CS					
Cooler ID:						

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

Reported: 11/21/2022 10:47
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information					
2225926-04	COC Number:	---	Receive Date:	10/28/2022 16:30		
	Project Number:	JPL	Sampling Date:	10/28/2022 09:15		
	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: W					
	Sample QC Type (SACode): CS					
Cooler ID:						
2225926-05	COC Number:	---	Receive Date:	10/28/2022 16:30		
	Project Number:	JPL	Sampling Date:	10/28/2022 09:45		
	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: W					
	Sample QC Type (SACode): CS					
Cooler ID:						
2225926-06	COC Number:	---	Receive Date:	10/28/2022 16:30		
	Project Number:	JPL	Sampling Date:	10/28/2022 12:00		
	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: W					
	Sample QC Type (SACode): CS					
Cooler ID:						

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

Reported: 11/21/2022 10:47
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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2225926-07	COC Number:	---	Receive Date:	10/28/2022 16:30
	Project Number:	JPL	Sampling Date:	10/28/2022 12:15
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	EB-5-102822	Lab Matrix:	Water
	Sampled By:	BTST	Sample Type:	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): EB-5-102822	
			Matrix: W	
			Sample QC Type (SACode): CS	
		Cooler ID:		

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

Reported: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225926-01 **Client Sample Name:** JPL, TB-5-102822, 10/28/2022 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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

Reported: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225926-01		Client Sample Name: JPL, TB-5-102822, 10/28/2022 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	V11	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: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225926-01	Client Sample Name: JPL, TB-5-102822, 10/28/2022 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)	96.0	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.0	%	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	11/04/22 12:00	11/07/22 02:51	RCC	MS-V5	1	B153143	EPA 524.2

DCN = Data Continuation Number



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

Reported: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225926-01	Client Sample Name: JPL, TB-5-102822, 10/28/2022 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	11/04/22 12:00	11/07/22	02:51	RCC	MS-V5	1	B153143	EPA 524.2

DCN = Data Continuation Number



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

Reported: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225926-02 **Client Sample Name:** JPL, MW-23-5, 10/28/2022 8:05:00AM

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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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

Reported: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225926-02	Client Sample Name:	JPL, MW-23-5, 10/28/2022 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	ND	ug/L	0.50	0.12	EPA-524.2	ND		1	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1	
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1	
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1	
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1	
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
t-Butyl alcohol	ND	ug/L	2.0	2.0	EPA-524.2	ND		1	
Carbon disulfide	0.64	ug/L	0.50	0.48	EPA-524.2	ND	V11	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: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225926-02	Client Sample Name: JPL, MW-23-5, 10/28/2022 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	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)	96.8	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.9	%	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	11/04/22 12:00	11/07/22 03:15	RCC	MS-V5	1	B153143	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225926-02	Client Sample Name: JPL, MW-23-5, 10/28/2022 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	11/04/22 12:00	11/07/22	03:15	RCC	MS-V5	1	B153143	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
 3761 Attucks Drive
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Reported: 11/21/2022 10:47
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225926-02	Client Sample Name: JPL, MW-23-5, 10/28/2022 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	11/08/22 17:00	11/09/22 00:44	SAV	IC6	1	B153451	No Prep

DCN = Data Continuation Number

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Reported: 11/21/2022 10:47
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225926-02	Client Sample Name: JPL, MW-23-5, 10/28/2022 8:05:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.000073	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	11/02/22 08:00	11/02/22 13:31		RC1	IC-4	1	B152802	No Prep
2	EPA-200.8	11/07/22 19:55	11/09/22 10:13		KHS	PE-EL4	1	B153320	EPA 200.2

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Reported: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225926-03	Client Sample Name:	JPL, MW-23-4, 10/28/2022 8:40:00AM						
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	V11	1	
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1	
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1	
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1	
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	

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Reported: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225926-03 **Client Sample Name:** JPL, MW-23-4, 10/28/2022 8:40:00AM

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	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	V11	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: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225926-03 **Client Sample Name:** JPL, MW-23-4, 10/28/2022 8:40:00AM

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)	99.4	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.7	%	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	11/04/22 12:00	11/07/22 03:39	RCC	MS-V5	1	B153143	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225926-03	Client Sample Name: JPL, MW-23-4, 10/28/2022 8:40:00AM
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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	11/04/22 12:00	11/07/22	03:39	RCC	MS-V5	1	B153143	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 11/21/2022 10:47
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225926-03	Client Sample Name: JPL, MW-23-4, 10/28/2022 8:40:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	1.9	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	11/08/22 17:00	11/09/22 01:30	SAV	IC6	1	B153451	No Prep

DCN = Data Continuation Number

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Reported: 11/21/2022 10:47
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225926-03	Client Sample Name: JPL, MW-23-4, 10/28/2022 8:40:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.0041	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Chromium	4.2	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	11/02/22 08:00	11/02/22 13:40		RC1	IC-4	1	B152802	No Prep
2	EPA-200.8	11/07/22 19:55	11/09/22 10:15		KHS	PE-EL4	1	B153320	EPA 200.2

DCN = Data Continuation Number

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Reported: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225926-04	Client Sample Name:	JPL, MW-23-3, 10/28/2022 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	V11	1	
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1	
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1	
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1	
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	

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

Reported: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225926-04	Client Sample Name:	JPL, MW-23-3, 10/28/2022 9:15:00AM						
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	V11	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: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225926-04 **Client Sample Name:** JPL, MW-23-3, 10/28/2022 9:15:00AM

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)	97.6	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.3	%	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	11/04/22 12:00	11/07/22 04:03	RCC	MS-V5	1	B153143	EPA 524.2

DCN = Data Continuation Number



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Reported: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225926-04	Client Sample Name: JPL, MW-23-3, 10/28/2022 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	11/04/22 12:00	11/07/22	04:03	RCC	MS-V5	1	B153143	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 11/21/2022 10:47
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225926-04	Client Sample Name: JPL, MW-23-3, 10/28/2022 9:15:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	4.6	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	11/08/22 17:00	11/09/22 01:46	SAV	IC6	1	B153451	No Prep

DCN = Data Continuation Number

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Reported: 11/21/2022 10:47
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225926-04	Client Sample Name: JPL, MW-23-3, 10/28/2022 9:15:00AM							
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	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	11/02/22 08:00	11/02/22 13:50		RC1	IC-4	1	B152802	No Prep
2	EPA-200.8	11/07/22 19:55	11/09/22 10:17		KHS	PE-EL4	1	B153320	EPA 200.2

DCN = Data Continuation Number

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Reported: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225926-05	Client Sample Name:	JPL, MW-23-2, 10/28/2022 9:45:00AM						
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	V11	1	
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chloroform	0.46	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: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225926-05	Client Sample Name:	JPL, MW-23-2, 10/28/2022 9:45:00AM						
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	0.33	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	0.76	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	V11	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: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225926-05 **Client Sample Name:** JPL, MW-23-2, 10/28/2022 9:45:00AM

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	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)	99.2	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.2	%	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	11/04/22 12:00	11/07/22 00:27	RCC	MS-V5	1	B153143	EPA 524.2

DCN = Data Continuation Number



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

Reported: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225926-05	Client Sample Name: JPL, MW-23-2, 10/28/2022 9:45:00AM
---------------------------	--

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	11/04/22 12:00	11/07/22	00:27	RCC	MS-V5	1	B153143	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
 3761 Attucks Drive
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Reported: 11/21/2022 10:47
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225926-05	Client Sample Name: JPL, MW-23-2, 10/28/2022 9:45:00AM
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	5.2	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	11/08/22 17:00	11/09/22 11:02	RC1	IC6	1	B153884	No Prep

DCN = Data Continuation Number

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Reported: 11/21/2022 10:47
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225926-05	Client Sample Name: JPL, MW-23-2, 10/28/2022 9:45:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.0019	mg/L	0.00020	0.000020	EPA-218.6	ND		1
Total Recoverable Chromium	1.9	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	11/02/22 08:00	11/02/22 12:14		RC1	IC-4	1	B152802	No Prep
2	EPA-200.8	11/07/22 19:55	11/09/22 09:47		KHS	PE-EL4	1	B153320	EPA 200.2

DCN = Data Continuation Number

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Reported: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225926-06	Client Sample Name:	JPL, MW-26-2, 10/28/2022 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	1.4	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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 3761 Attucks Drive
 Powell, OH 43065

Reported: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2225926-06	Client Sample Name:	JPL, MW-26-2, 10/28/2022 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	1.5	ug/L	0.50	0.23	EPA-524.2	ND		1	
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
Trichloroethene	0.26	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	V11	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: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225926-06	Client Sample Name: JPL, MW-26-2, 10/28/2022 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)	97.3	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.7	%	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	11/04/22 12:00	11/07/22 04:27	RCC	MS-V5	1	B153143	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
 3761 Attucks Drive
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Reported: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225926-06	Client Sample Name: JPL, MW-26-2, 10/28/2022 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	11/04/22 12:00	11/07/22	04:27	RCC	MS-V5	1	B153143	EPA 524.2

DCN = Data Continuation Number

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Reported: 11/21/2022 10:47
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225926-06	Client Sample Name: JPL, MW-26-2, 10/28/2022 12:00:00PM
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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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	11/08/22 17:00	11/09/22 02:16	SAV	IC6	1	B153451	No Prep

DCN = Data Continuation Number

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Reported: 11/21/2022 10:47
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225926-06	Client Sample Name: JPL, MW-26-2, 10/28/2022 12:00:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00052	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		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	11/02/22 08:00	11/02/22 13:59		RC1	IC-4	1	B152802	No Prep
2	EPA-200.8	11/07/22 19:55	11/09/22 10:19		KHS	PE-EL4	1	B153320	EPA 200.2

DCN = Data Continuation Number

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Reported: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225926-07 **Client Sample Name:** JPL, EB-5-102822, 10/28/2022 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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 Powell, OH 43065

Reported: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225926-07 **Client Sample Name:** JPL, EB-5-102822, 10/28/2022 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	V11	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: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2225926-07	Client Sample Name: JPL, EB-5-102822, 10/28/2022 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)	97.4	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.1	%	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	11/04/22 12:00	11/07/22 04:51	RCC	MS-V5	1	B153143	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2225926-07	Client Sample Name: JPL, EB-5-102822, 10/28/2022 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	11/04/22 12:00	11/07/22	04:51	RCC	MS-V5	1	B153143	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
 3761 Attucks Drive
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Reported: 11/21/2022 10:47
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2225926-07	Client Sample Name: JPL, EB-5-102822, 10/28/2022 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	11/08/22 17:00	11/09/22 02:32	SAV	IC6	1	B153451	No Prep

DCN = Data Continuation Number

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Reported: 11/21/2022 10:47
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2225926-07	Client Sample Name: JPL, EB-5-102822, 10/28/2022 12:15:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.000055	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	11/02/22 08:00	11/02/22 14:09		RC1	IC-4	1	B152802	No Prep
2	EPA-200.8	11/07/22 19:55	11/09/22 10:20		KHS	PE-EL4	1	B153320	EPA 200.2

DCN = Data Continuation Number

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Reported: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 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	Run #
QC Batch ID: B153143							
Benzene	B153143-BLK1	ND	ug/L	0.50	0.11		1
Bromobenzene	B153143-BLK1	ND	ug/L	0.50	0.15		1
Bromochloromethane	B153143-BLK1	ND	ug/L	0.50	0.27		1
Bromodichloromethane	B153143-BLK1	ND	ug/L	0.50	0.20		1
Bromoform	B153143-BLK1	ND	ug/L	0.50	0.46		1
Bromomethane	B153143-BLK1	ND	ug/L	0.50	0.20		1
n-Butylbenzene	B153143-BLK1	ND	ug/L	0.50	0.15		1
sec-Butylbenzene	B153143-BLK1	ND	ug/L	0.50	0.13		1
tert-Butylbenzene	B153143-BLK1	ND	ug/L	0.50	0.18		1
Carbon tetrachloride	B153143-BLK1	ND	ug/L	0.50	0.17		1
Chlorobenzene	B153143-BLK1	ND	ug/L	0.50	0.14		1
Chloroethane	B153143-BLK1	ND	ug/L	0.50	0.17		1
Chloroform	B153143-BLK1	ND	ug/L	0.50	0.14		1
Chloromethane	B153143-BLK1	ND	ug/L	0.50	0.11		1
2-Chlorotoluene	B153143-BLK1	ND	ug/L	0.50	0.14		1
4-Chlorotoluene	B153143-BLK1	ND	ug/L	0.50	0.093		1
Dibromochloromethane	B153143-BLK1	ND	ug/L	0.50	0.22		1
1,2-Dibromo-3-chloropropane	B153143-BLK1	ND	ug/L	1.0	0.89		1
1,2-Dibromoethane	B153143-BLK1	ND	ug/L	0.50	0.22		1
Dibromomethane	B153143-BLK1	ND	ug/L	0.50	0.23		1
1,2-Dichlorobenzene	B153143-BLK1	ND	ug/L	0.50	0.21		1
1,3-Dichlorobenzene	B153143-BLK1	ND	ug/L	0.50	0.16		1
1,4-Dichlorobenzene	B153143-BLK1	ND	ug/L	0.50	0.15		1
Dichlorodifluoromethane	B153143-BLK1	ND	ug/L	0.50	0.15		1
1,1-Dichloroethane	B153143-BLK1	ND	ug/L	0.50	0.15		1
1,2-Dichloroethane	B153143-BLK1	ND	ug/L	0.50	0.17		1
1,1-Dichloroethene	B153143-BLK1	ND	ug/L	0.50	0.27		1
cis-1,2-Dichloroethene	B153143-BLK1	ND	ug/L	0.50	0.27		1
trans-1,2-Dichloroethene	B153143-BLK1	ND	ug/L	0.50	0.17		1
1,2-Dichloropropane	B153143-BLK1	ND	ug/L	0.50	0.15		1
1,3-Dichloropropane	B153143-BLK1	ND	ug/L	0.50	0.13		1
2,2-Dichloropropane	B153143-BLK1	ND	ug/L	0.50	0.18		1
1,1-Dichloropropene	B153143-BLK1	ND	ug/L	0.50	0.19		1
cis-1,3-Dichloropropene	B153143-BLK1	ND	ug/L	0.50	0.14		1

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Reported: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 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	Run #
QC Batch ID: B153143							
trans-1,3-Dichloropropene	B153143-BLK1	ND	ug/L	0.50	0.13		1
Ethylbenzene	B153143-BLK1	ND	ug/L	0.50	0.15		1
Hexachlorobutadiene	B153143-BLK1	ND	ug/L	0.50	0.20		1
Isopropylbenzene	B153143-BLK1	ND	ug/L	0.50	0.14		1
p-Isopropyltoluene	B153143-BLK1	ND	ug/L	0.50	0.14		1
Methylene chloride	B153143-BLK1	ND	ug/L	0.50	0.21		1
Methyl t-butyl ether	B153143-BLK1	ND	ug/L	0.50	0.14		1
Naphthalene	B153143-BLK1	ND	ug/L	0.50	0.16		1
n-Propylbenzene	B153143-BLK1	ND	ug/L	0.50	0.12		1
Styrene	B153143-BLK1	ND	ug/L	0.50	0.12		1
1,1,1,2-Tetrachloroethane	B153143-BLK1	ND	ug/L	0.50	0.21		1
1,1,1,2,2-Tetrachloroethane	B153143-BLK1	ND	ug/L	0.50	0.17		1
Tetrachloroethene	B153143-BLK1	ND	ug/L	0.50	0.23		1
Toluene	B153143-BLK1	ND	ug/L	0.50	0.17		1
1,2,3-Trichlorobenzene	B153143-BLK1	ND	ug/L	0.50	0.19		1
1,2,4-Trichlorobenzene	B153143-BLK1	ND	ug/L	0.50	0.15		1
1,1,1-Trichloroethane	B153143-BLK1	ND	ug/L	0.50	0.21		1
1,1,2-Trichloroethane	B153143-BLK1	ND	ug/L	0.50	0.21		1
Trichloroethene	B153143-BLK1	ND	ug/L	0.50	0.19		1
Trichlorofluoromethane	B153143-BLK1	ND	ug/L	0.50	0.14		1
1,2,3-Trichloropropane	B153143-BLK1	ND	ug/L	1.0	0.78		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B153143-BLK1	ND	ug/L	0.50	0.19		1
1,2,4-Trimethylbenzene	B153143-BLK1	ND	ug/L	0.50	0.17		1
1,3,5-Trimethylbenzene	B153143-BLK1	ND	ug/L	0.50	0.14		1
Vinyl chloride	B153143-BLK1	ND	ug/L	0.50	0.18		1
Acetone	B153143-BLK1	ND	ug/L	10	6.6		1
Acrylonitrile	B153143-BLK1	ND	ug/L	5.0	1.5		1
Allyl chloride	B153143-BLK1	ND	ug/L	5.0	0.47		1
t-Amyl Methyl ether	B153143-BLK1	ND	ug/L	0.50	0.19		1
t-Butyl alcohol	B153143-BLK1	ND	ug/L	2.0	2.0		1
Carbon disulfide	B153143-BLK1	ND	ug/L	0.50	0.48		1
trans-1,4-Dichloro-2-butene	B153143-BLK1	ND	ug/L	5.0	1.8		1
Diethyl ether	B153143-BLK1	ND	ug/L	2.0	0.33		1
Ethyl methacrylate	B153143-BLK1	ND	ug/L	4.0	1.3		1

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 Powell, OH 43065

Reported: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 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	Run #
QC Batch ID: B153143							
Ethyl t-butyl ether	B153143-BLK1	ND	ug/L	0.50	0.32		1
Hexachloroethane	B153143-BLK1	ND	ug/L	0.50	0.11		1
2-Hexanone	B153143-BLK1	ND	ug/L	10	5.0		1
Methacrylonitrile	B153143-BLK1	ND	ug/L	10	2.3		1
Methyl ethyl ketone	B153143-BLK1	ND	ug/L	5.0	3.3		1
Methyl iodide	B153143-BLK1	ND	ug/L	2.0	1.1		1
Methyl isobutyl ketone	B153143-BLK1	ND	ug/L	5.0	2.4		1
Methyl methacrylate	B153143-BLK1	ND	ug/L	5.0	1.2		1
Pentachloroethane	B153143-BLK1	ND	ug/L	2.0	0.63		1
Propionitrile	B153143-BLK1	ND	ug/L	20	6.2		1
Tetrahydrofuran	B153143-BLK1	ND	ug/L	20	5.2		1
p- & m-Xylenes	B153143-BLK1	ND	ug/L	0.50	0.34		1
o-Xylene	B153143-BLK1	ND	ug/L	0.50	0.13		1
1,2-Dichloroethane-d4 (Surrogate)	B153143-BLK1	96.2	%	75 - 125 (LCL - UCL)			1
Toluene-d8 (Surrogate)	B153143-BLK1	99.1	%	80 - 120 (LCL - UCL)			1
4-Bromofluorobenzene (Surrogate)	B153143-BLK1	92.7	%	80 - 120 (LCL - UCL)			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B153143-BLK1	PB	EPA-524.2	11/04/22	11/07/22 00:03	RCC	MS-V5	1

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Reported: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 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	Run #
								Percent Recovery	RPD		
QC Batch ID: B153143											
Benzene	B153143-BS1	LCS	22.580	25.000	ug/L	90.3		70 - 130			1
Bromodichloromethane	B153143-BS1	LCS	27.110	25.000	ug/L	108		70 - 130			1
Chlorobenzene	B153143-BS1	LCS	25.420	25.000	ug/L	102		70 - 130			1
Chloroethane	B153143-BS1	LCS	22.430	25.000	ug/L	89.7		70 - 130			1
1,4-Dichlorobenzene	B153143-BS1	LCS	27.070	25.000	ug/L	108		70 - 130			1
1,1-Dichloroethane	B153143-BS1	LCS	22.940	25.000	ug/L	91.8		70 - 130			1
1,1-Dichloroethene	B153143-BS1	LCS	24.200	25.000	ug/L	96.8		70 - 130			1
Toluene	B153143-BS1	LCS	23.980	25.000	ug/L	95.9		70 - 130			1
Trichloroethene	B153143-BS1	LCS	24.140	25.000	ug/L	96.6		70 - 130			1
1,2-Dichloroethane-d4 (Surrogate)	B153143-BS1	LCS	9.6700	10.000	ug/L	96.7		75 - 125			1
Toluene-d8 (Surrogate)	B153143-BS1	LCS	10.100	10.000	ug/L	101		80 - 120			1
4-Bromofluorobenzene (Surrogate)	B153143-BS1	LCS	9.8500	10.000	ug/L	98.5		80 - 120			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B153143-BS1	LCS	EPA-524.2	11/04/22	11/07/22 00:51	RCC	MS-V5	1

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 Powell, OH 43065

Reported: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 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	R#
									RPD	Percent Recovery		
QC Batch ID: B153143		Used client sample: Y - Description: MW-23-2, 10/28/2022 09:45										
Benzene	MS	2225926-05	ND	22.820	25.000	ug/L		91.3		70 - 130		1
	MSD	2225926-05	ND	22.730	25.000	ug/L	0.4	90.9	20	70 - 130		2
Bromodichloromethane	MS	2225926-05	ND	27.960	25.000	ug/L		112		70 - 130		1
	MSD	2225926-05	ND	27.910	25.000	ug/L	0.2	112	20	70 - 130		2
Chlorobenzene	MS	2225926-05	ND	26.090	25.000	ug/L		104		70 - 130		1
	MSD	2225926-05	ND	25.690	25.000	ug/L	1.5	103	20	70 - 130		2
Chloroethane	MS	2225926-05	ND	22.570	25.000	ug/L		90.3		70 - 130		1
	MSD	2225926-05	ND	22.560	25.000	ug/L	0.0	90.2	20	70 - 130		2
1,4-Dichlorobenzene	MS	2225926-05	ND	27.980	25.000	ug/L		112		70 - 130		1
	MSD	2225926-05	ND	27.660	25.000	ug/L	1.2	111	20	70 - 130		2
1,1-Dichloroethane	MS	2225926-05	ND	23.090	25.000	ug/L		92.4		70 - 130		1
	MSD	2225926-05	ND	23.280	25.000	ug/L	0.8	93.1	20	70 - 130		2
1,1-Dichloroethene	MS	2225926-05	ND	24.220	25.000	ug/L		96.9		70 - 130		1
	MSD	2225926-05	ND	24.300	25.000	ug/L	0.3	97.2	20	70 - 130		2
Toluene	MS	2225926-05	ND	24.280	25.000	ug/L		97.1		70 - 130		1
	MSD	2225926-05	ND	23.990	25.000	ug/L	1.2	96.0	20	70 - 130		2
Trichloroethene	MS	2225926-05	0.76000	24.430	25.000	ug/L		94.7		70 - 130		1
	MSD	2225926-05	0.76000	24.720	25.000	ug/L	1.2	95.8	20	70 - 130		2
1,2-Dichloroethane-d4 (Surrogate)	MS	2225926-05	ND	9.7400	10.000	ug/L		97.4		75 - 125		1
	MSD	2225926-05	ND	9.8900	10.000	ug/L	1.5	98.9		75 - 125		2
Toluene-d8 (Surrogate)	MS	2225926-05	ND	10.050	10.000	ug/L		100		80 - 120		1
	MSD	2225926-05	ND	10.110	10.000	ug/L	0.6	101		80 - 120		2
4-Bromofluorobenzene (Surrogate)	MS	2225926-05	ND	10.270	10.000	ug/L		103		80 - 120		1
	MSD	2225926-05	ND	10.050	10.000	ug/L	2.2	100		80 - 120		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B153143-MS1	MS	EPA-524.2	11/04/22	11/07/22 01:15	RCC	MS-V5	1
2	B153143-MSD1	MSD	EPA-524.2	11/04/22	11/07/22 01:39	RCC	MS-V5	1

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

Reported: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 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	Run #
QC Batch ID: B153143							
Nitrobenzene	B153143-BLK1	0	ug/L				1
Methyl acrylate	B153143-BLK1	0	ug/L				1
Chloroacetonitrile	B153143-BLK1	0	ug/L				1
2-Nitropropane	B153143-BLK1	0	ug/L				1
1-Chlorobutane	B153143-BLK1	0	ug/L				1
1,1-Dichloropropanone	B153143-BLK1	0	ug/L				1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B153143-BLK1	PB	EPA-524.2	11/04/22	11/07/22	00:03	RCC	MS-V5	1

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

Reported: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 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	Run #
-------------	--------------	-----------	-------	-----	-----	-----------	-------

QC Batch ID: B153451

Perchlorate	B153451-BLK1	ND	ug/L	2.0	0.81		1
-------------	--------------	----	------	-----	------	--	---

QC Batch ID: B153884

Perchlorate	B153884-BLK1	ND	ug/L	2.0	0.81		2
-------------	--------------	----	------	-----	------	--	---

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B153451-BLK1	PB	EPA-314.0	11/08/22	11/08/22 19:53	SAV	IC6	1
2	B153884-BLK1	PB	EPA-314.0	11/08/22	11/09/22 12:34	RC1	IC6	1

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

Reported: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 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	Run #
								Percent Recovery	RPD		
QC Batch ID: B153451											
Perchlorate	B153451-BS1	LCS	9.5537	10.000	ug/L	95.5		85 - 115			1

QC Batch ID: B153884											
Perchlorate	B153884-BS1	LCS	9.8049	10.000	ug/L	98.0		85 - 115			2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B153451-BS1	LCS	EPA-314.0	11/08/22	11/08/22 20:08	SAV	IC6	1
2	B153884-BS1	LCS	EPA-314.0	11/08/22	11/09/22 12:49	RC1	IC6	1

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

Reported: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Source Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals	R#
									RPD	Percent Recovery		
QC Batch ID: B153451		Used client sample: N										
Perchlorate	DUP	2225521-09	3.7288	3.7754		ug/L	1.2		15			1
	MS	2225521-09	3.7288	13.010	10.000	ug/L		92.8		80 - 120		2
	MSD	2225521-09	3.7288	13.248	10.000	ug/L	1.8	95.2	15	80 - 120		3
QC Batch ID: B153884		Used client sample: Y - Description: MW-23-2, 10/28/2022 09:45										
Perchlorate	DUP	'225926-05RE'	5.1573	5.7405		ug/L	10.7		15			4
	MS	'225926-05RE'	5.1573	15.607	10.101	ug/L		103		80 - 120		5
	MSD	'225926-05RE'	5.1573	14.446	10.101	ug/L	7.7	92.0	15	80 - 120		6
Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution				
1	B153451-DUP1	DUP	EPA-314.0	11/08/22	11/08/22 20:39	SAV	IC6	1				
2	B153451-MS1	MS	EPA-314.0	11/08/22	11/08/22 20:54	SAV	IC6	1				
3	B153451-MSD1	MSD	EPA-314.0	11/08/22	11/08/22 21:09	SAV	IC6	1				
4	B153884-DUP1	DUP	EPA-314.0	11/08/22	11/09/22 13:05	RC1	IC6	1				
5	B153884-MS1	MS	EPA-314.0	11/08/22	11/09/22 13:20	RC1	IC6	1.010				
6	B153884-MSD1	MSD	EPA-314.0	11/08/22	11/09/22 13:35	RC1	IC6	1.010				

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

Reported: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
-------------	--------------	-----------	-------	-----	-----	-----------	-------

QC Batch ID: B152802

Hexavalent Chromium	B152802-BLK1	ND	mg/L	0.00020	0.000020		1
---------------------	--------------	----	------	---------	----------	--	---

QC Batch ID: B153320

Total Recoverable Chromium	B153320-BLK1	ND	ug/L	3.0	0.50		2
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Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B152802-BLK1	PB	EPA-218.6	11/02/22	11/02/22	11:55	RC1	IC-4	1
2	B153320-BLK1	PB	EPA-200.8	11/07/22	11/09/22	09:45	KHS	PE-EL4	1

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

Reported: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 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	Run #
								Percent Recovery	RPD		
QC Batch ID: B152802											
Hexavalent Chromium	B152802-BS1	LCS	0.019472	0.020000	mg/L	97.4		90 - 110			1

QC Batch ID: B153320											
Total Recoverable Chromium	B153320-BS1	LCS	42.107	40.000	ug/L	105		85 - 115			2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B152802-BS1	LCS	EPA-218.6	11/02/22	11/02/22 12:04	RC1	IC-4	1
2	B153320-BS1	LCS	EPA-200.8	11/07/22	11/09/22 09:53	KHS	PE-EL4	1

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

Reported: 11/21/2022 10:47
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 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	R#
									RPD	Percent Recovery		
QC Batch ID: B152802		Used client sample: Y - Description: MW-23-2, 10/28/2022 09:45										
Hexavalent Chromium	DUP	2225926-05	0.0018510	0.0018460		mg/L	0.3		10			1
	MS	2225926-05	0.0018510	0.021685	0.020202	mg/L		98.2		90 - 110		2
	MSD	2225926-05	0.0018510	0.021824	0.020202	mg/L	0.6	98.9	10	90 - 110		3

QC Batch ID: B153320		Used client sample: Y - Description: MW-23-2, 10/28/2022 09:45										
Total Recoverable Chromium	DUP	2225926-05	1.9210	2.0430		ug/L	6.2		20		J	4
	MS	2225926-05	1.9210	42.230	40.000	ug/L		101		70 - 130		5
	MSD	2225926-05	1.9210	41.596	40.000	ug/L	1.5	99.2	20	70 - 130		6

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B152802-DUP1	DUP	EPA-218.6	11/02/22	11/02/22	12:24	RC1	IC-4	1
2	B152802-MS1	MS	EPA-218.6	11/02/22	11/02/22	12:33	RC1	IC-4	1.010
3	B152802-MSD1	MSD	EPA-218.6	11/02/22	11/02/22	13:02	RC1	IC-4	1.010
4	B153320-DUP1	DUP	EPA-200.8	11/07/22	11/09/22	09:49	KHS	PE-EL4	1
5	B153320-MS1	MS	EPA-200.8	11/07/22	11/09/22	09:55	KHS	PE-EL4	1
6	B153320-MSD1	MSD	EPA-200.8	11/07/22	11/09/22	09:57	KHS	PE-EL4	1

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

Reported: 11/21/2022 10:47
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
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: 12/13/2022

David Conner

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

Client Project: 4Q22
BCL Project: JPL- GW Monitoring Wells-CLP
BCL Work Order: 2226304
Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 11/1/2022. 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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WDD 11-1-22
2A 2 of 2

Page 1 of 2

Chain of Custody Form



Request To: **TideWater, Inc.**
 Client: **David Corrier**
 Attn: **David Corrier**
 Street Address: **3761 Attucks Drive**
 City: **Powell** State: **OH** Zip: **43065**
 Phone: **614 288 1288** Fax: **614 792-2897**
 Email Address: **david.corrier@tidewater.net**
 Submission #: _____

Project Description: **JPL-GW Monitoring**
 Project Code: **4022**
 Sampler (s): **Blaine Tech**

Sample #	Sample Description	Date	Time	Matrix*
1	TB-7-110122	11/01/22	0700	W
2	MW-21-5		0825	W
3	MW-21-4		0850	W
4	MW-21-3		0915	W
5	MW-21-2		1010	W
6	MIN-11-5		1145	W
7	MW-11-4		1230	W
8	MW-11-3		1255	W
9	MW-11-2		1325	W
10	DUP-8-4622		1335	W
11	MW-11-1		1355	W

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

Matrix Types: S = Soil SL = Sludge DW = Drinking Water WW = Wastewater GW = Groundwater L = Liquid
 24 Hr Rush 48 Hr Rush 3-5 Day Rush Normal (10 - Days)
 Lab TAT Approval: _____ *Additional Charges May Apply

Billing
 Client: **TideWater**
 Attn: **David Corrier**
 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
 Lubrication please collect 2
 SDOS for final ETV verification
 MS/MSD
 10.6
 SHORT HOLDING TIME
 Cr6 (NO2) (NO3) (OP) SS
 DO Cl6 BOD MBAS COT
 M = Miscellaneous DISTRIBUTION
 SUB OUT

Global ID:
 1. Relinquished By: _____ Date: 11-1-22 Time: 1415
 2. Relinquished By: **Walter Sweath** Date: 11-1-22 Time: 1425
 3. Relinquished By: **Walter Sweath** Date: 11-1-22 Time: 1410
 4. Relinquished By: **Walter Sweath** Date: 11-1-22 Time: 1405

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

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

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

Chain of Custody Form

Page 2 of 2

Report To: Tidewater, Inc.
Client: David Conner
Attn: David Conner
Street Address: 3781 Attucks Drive
City: Powell **State:** OH **Zip:** 43065
Phone: 626 | 298 - 5715 **Fax:** 614 | 792 - 2897
Email Address: david.conner@tidshzo.net

Project Description: JPL-GW Monitoring
Project Code: 4Q22
Sampler(s): Blaine Tech

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

Analysis Requested

Analysis	Requested
Orthophosphate 365.1	<input type="checkbox"/>
Cl, NO3, NO2, SO4	<input type="checkbox"/>
Hexavalent Cr6 - 218.6 (mg/L)	<input type="checkbox"/>
Perchlorate	<input type="checkbox"/>
TRM- Cr	<input type="checkbox"/>
VOCs EPA 524.2	<input type="checkbox"/>

Notes:
Laboratory please select 2 SDBs for Level IV Validation

Matrix: MBU Site CVA RCMA Geotracker 5 File (CA Default) Geotracker 2 File Other (Specify) _____

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: 11-1-22 Time: 1425
 2. Relinquished By: *Walter Smith* Date: 11-1-22 Time: 1425
 3. Relinquished By: *TODD* Date: 11-1-22 Time: 1010

Global ID:
 1. Received By: _____ Date: _____ Time: _____
 2. Received By: _____ Date: _____ Time: _____
 3. Received By: _____ Date: _____ Time: _____

Billing:
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?
 Yes No
 *Standard Turnaround = 10

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 <u>1</u> Of <u>3</u>							
Submission #: <u>22-26304</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>0.95</u> Container: <u>PE</u> Thermometer ID: <u>277</u>		Date/Time: <u>11/22/22</u>							
		Temperature: (A) <u>3.0</u> °C / (C) <u>3.0</u> °C		Analyst Init: <u>SC</u>							
SAMPLE CONTAINERS		SAMPLE NUMBERS									
		1234 46 58 68 78 88 98 108 118									
QT PE UNPRES											
4oz / Box (16oz) PE UNPRES		D	D	G,H	D	D	D	D	D	D	D
3oz Cr ⁶		E	E	J,S	E	E	E	E	E	E	J
QT INORGANIC CHEMICAL METALS											J
INORGANIC CHEMICAL METALS 4oz / Box / 16oz		F	F	K,L	F	F	F	F	F	F	J
PT CYANIDE											J
PT NITROGEN FORMS											J
PT TOTAL SULFIDE											J
3oz. NITRATE / NITRITE											J
PT TOTAL ORGANIC CARBON											J
PT CHEMICAL OXYGEN DEMAND											J
P1A PHENOLICS											J
40ml VOA VIAL TRAVEL BLANK											J
40ml VOA VIAL											J
QT EPA 1664B											J
PT ODOR											J
RADIOLOGICAL											J
BACTERIOLOGICAL											J
40 ml VOA VIAL- 504											J
QT EPA 508/508.3/5081A											J
QT EPA 515.1/5151A											J
QT EPA 525.2											J
QT EPA 525.2 TRAVEL BLANK											J
40ml EPA 547											J
40ml EPA 531.1											J
8oz EPA 548.1											J
QT EPA 549.2											J
QT EPA 8015M											J
QT EPA 8270C											J
Box / 16oz / 32oz AMBER											J
8oz / 16oz / 32oz JAR											J
SOIL SLEEVE											J
PCB VIAL											J
PLASTIC BAG											J
TEDLAR BAG											J
FERROUS IRON											J
ENCORE											J
SMART KIT											J
SUMMA CANISTER											J

Comments: _____
 Sample Numbering Completed By: JLD Date/Time: 11/22/22 1140
 A = Actual / C = Corrected

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PACE ANALYTICAL COOLER RECEIPT FORM Page 2 OF 3

Submission #: 22-26304

SHIPPING INFORMATION: Fed Ex UPS GSO / GLS Hand Delivery Pace Lab Field Service Other (Specify) _____

SHIPPING CONTAINER: Ice Chest None Box Other (Specify) _____

FREE LIQUID: YES NO W / S

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Intact? Yes No Intact? Yes No Comments: _____

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

COC Received: YES NO Emissivity: 0.95 Container: PE Thermometer ID: 277 Date/Time: 11/3/22 174
Temperature: (A) 3.0 °C / (C) 3.0 °C Analyst Init: JJC

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz / 16oz PE UNPRES										
2oz Cr ⁶										
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										
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	<u>A</u>	<u>A-1</u>	<u>A-1</u>	<u>A-F</u>	<u>A-1</u>	<u>A-1</u>	<u>A-C</u>	<u>A-C</u>	<u>A-C</u>	<u>A-C</u>
40ml VOA VIAL Travel Blank	<u>A</u>									
QT EPA 1661B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL - SM										
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 527C										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDIAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____
 Sample Numbering Completed By: XJP Date/Time: 11/3/22 1146
 A = Actual / C = Corrected

PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>3</u> Of <u>7</u>	
Submission #: <u>22-26304</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"/>
Pace Lab Field Service <input checked="" type="checkbox"/>			Other <input type="checkbox"/> (Specify) _____		Other <input type="checkbox"/> (Specify) _____
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 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>0.95</u> Container: <u>PE</u> Thermometer ID: <u>271</u>		Date/Time <u>11/12/22 1140</u>	
		Temperature: (A) <u>3.0</u> °C / (C) <u>3.0</u> °C		Analyst Init <u>SSC</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							
2oz Cr ⁶⁺	E	E	E							
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz	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										
40ml VOA VIAL	A-C	A-C	A-C							
QT EPA 1661B										
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 543.2										
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: SSC Date/Time: 11/3/22 1140
 A = Actual / C = Corrected



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

Reported: 12/13/2022 8:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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2226304-01	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: TB-7-110122 Sampled By: Blaine Tech of BTST	Receive Date: 11/01/2022 19:00 Sampling Date: 11/01/2022 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:
-------------------	---	---

2226304-02	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW-21-5 Sampled By: Blaine Tech of BTST	Receive Date: 11/01/2022 19:00 Sampling Date: 11/01/2022 08:25 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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2226304-03	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW-21-4 Sampled By: Blaine Tech of BTST	Receive Date: 11/01/2022 19:00 Sampling Date: 11/01/2022 08:50 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-21-4 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc. - Powell
 3761 Attucks Drive
 Powell, OH 43065

Reported: 12/13/2022 8:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information					
2226304-04	COC Number:	---	Receive Date:	11/01/2022 19:00		
	Project Number:	JPL GW	Sampling Date:	11/01/2022 09:15		
	Sampling Location:	---	Sample Depth:	---		
	Sampling Point:	MW-21-3	Lab Matrix:	Water		
	Sampled By:	Blaine Tech of 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:				
2226304-05	COC Number:	---	Receive Date:	11/01/2022 19:00		
	Project Number:	JPL GW	Sampling Date:	11/01/2022 10:10		
	Sampling Location:	---	Sample Depth:	---		
	Sampling Point:	MW-21-2	Lab Matrix:	Water		
	Sampled By:	Blaine Tech of BTST	Sample Type:	Groundwater		
			Delivery Work Order:			
			Global ID:	0000000000		
			Location ID (FieldPoint):	MW-21-2		
			Matrix:	WG		
			Sample QC Type (SACode):	CS		
		Cooler ID:				
2226304-06	COC Number:	---	Receive Date:	11/01/2022 19:00		
	Project Number:	JPL GW	Sampling Date:	11/01/2022 11:45		
	Sampling Location:	---	Sample Depth:	---		
	Sampling Point:	MW-11-5	Lab Matrix:	Water		
	Sampled By:	Blaine Tech of BTST	Sample Type:	Groundwater		
			Delivery Work Order:			
			Global ID:	0000000000		
			Location ID (FieldPoint):	MW-11-5		
			Matrix:	WG		
			Sample QC Type (SACode):	CS		
		Cooler ID:				

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

Reported: 12/13/2022 8:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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2226304-07	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW-11-4 Sampled By: Blaine Tech of BTST	Receive Date: 11/01/2022 19:00 Sampling Date: 11/01/2022 12:30 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:
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2226304-08	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW-11-3 Sampled By: Blaine Tech of BTST	Receive Date: 11/01/2022 19:00 Sampling Date: 11/01/2022 12:55 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:
-------------------	--	---

2226304-09	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW-11-2 Sampled By: Blaine Tech of BTST	Receive Date: 11/01/2022 19:00 Sampling Date: 11/01/2022 13:25 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:
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Tidewater Inc. - Powell
 3761 Attucks Drive
 Powell, OH 43065

Reported: 12/13/2022 8:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
2226304-10	COC Number:	---	Receive Date: 11/01/2022 19:00
	Project Number:	JPL GW	Sampling Date: 11/01/2022 13:35
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	DUP-8-4Q22	Lab Matrix: Water
	Sampled By:	Blaine Tech of BTST	Sample Type: Groundwater
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): DUP-8-4Q22
			Matrix: WG
			Sample QC Type (SACode): CS
		Cooler ID:	
2226304-11	COC Number:	---	Receive Date: 11/01/2022 19:00
	Project Number:	JPL GW	Sampling Date: 11/01/2022 13:35
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	MW-11-1	Lab Matrix: Water
	Sampled By:	Blaine Tech of BTST	Sample Type: Groundwater
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): MW-11-1
			Matrix: WG
			Sample QC Type (SACode): CS
		Cooler ID:	
2226304-12	COC Number:	---	Receive Date: 11/01/2022 19:00
	Project Number:	NASA/JPL	Sampling Date: 11/01/2022 14:05
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	EB-7-110122	Lab Matrix: Water
	Sampled By:	Blaine Tech of BTST	Sample Type: Blank Water
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): EB-7
			Matrix: WG
			Sample QC Type (SACode): CS
		Cooler ID:	

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3761 Attucks Drive
Powell, OH 43065

Reported: 12/13/2022 8:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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2226304-13	COC Number: ---	Receive Date: 11/01/2022 19:00
	Project Number: NASA/JPL	Sampling Date: 11/01/2022 14:15
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: SB-2-110122	Lab Matrix: Water
	Sampled By: Blaine Tech of BTST	Sample Type: Blank Water
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): SB-2
		Matrix: WG
		Sample QC Type (SACode): CS
		Cooler ID:

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 3761 Attucks Drive
 Powell, OH 43065

Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226304-01	Client Sample Name: JPL, TB-7-110122, 11/1/2022 7:00:00AM, 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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

Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226304-01 **Client Sample Name:** JPL, TB-7-110122, 11/1/2022 7:00:00AM, 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	V11	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: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226304-01	Client Sample Name: JPL, TB-7-110122, 11/1/2022 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)	96.5	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	89.4	%	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	11/06/22 10:00	11/07/22 12:28	RCC	MS-V5	1	B153222	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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 Powell, OH 43065

Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2226304-01	Client Sample Name: JPL, TB-7-110122, 11/1/2022 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	11/06/22 10:00	11/07/22	12:28	RCC	MS-V5	1	B153222	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
 3761 Attucks Drive
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Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226304-02	Client Sample Name: JPL GW, MW-21-5, 11/1/2022 8:25:00AM, 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	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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Tidewater Inc. - Powell
 3761 Attucks Drive
 Powell, OH 43065

Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2226304-02	Client Sample Name:	JPL GW, MW-21-5, 11/1/2022 8:25:00AM, 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	0.70	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	V11	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: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226304-02	Client Sample Name: JPL GW, MW-21-5, 11/1/2022 8:25:00AM, 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)	93.9	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	89.6	%	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	11/06/22 10:00	11/07/22 15:16	RCC	MS-V5	1	B153222	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
 3761 Attucks Drive
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Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2226304-02	Client Sample Name: JPL GW, MW-21-5, 11/1/2022 8:25:00AM, 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	11/06/22 10:00	11/07/22	15:16	RCC	MS-V5	1	B153222	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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 Powell, OH 43065

Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2226304-02	Client Sample Name: JPL GW, MW-21-5, 11/1/2022 8:25:00AM, Blaine Tech
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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	11/22/22 08:00	11/22/22	14:32	SAV	IC6	1	B154372	No Prep

DCN = Data Continuation Number

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Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2226304-02	Client Sample Name: JPL GW, MW-21-5, 11/1/2022 8:25:00AM, Blaine Tech								
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN	
Hexavalent Chromium	0.0011	mg/L	0.00020	0.000020	EPA-218.6	ND		1	
Total Recoverable Chromium	1.3	ug/L	3.0	0.50	EPA-200.8	ND	J	2	

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	11/08/22 11:00	11/08/22	15:23	RC1	IC-4	1	B153374	No Prep
2	EPA-200.8	11/14/22 18:10	11/15/22	12:14	ARD	PE-EL4	1	B153830	EPA 200.2

DCN = Data Continuation Number

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Tidewater Inc. - Powell
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Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226304-03 **Client Sample Name:** JPL GW, MW-21-4, 11/1/2022 8:50:00AM, 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	3.4	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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 Powell, OH 43065

Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226304-03	Client Sample Name: JPL GW, MW-21-4, 11/1/2022 8:50:00AM, 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	0.63	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	V11	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: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226304-03	Client Sample Name: JPL GW, MW-21-4, 11/1/2022 8:50:00AM, 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)	98.8	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.3	%	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	11/06/22 10:00	11/07/22 15:40	RCC	MS-V5	1	B153222	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2226304-03	Client Sample Name: JPL GW, MW-21-4, 11/1/2022 8:50:00AM, 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	11/06/22 10:00	11/07/22	15:40	RCC	MS-V5	1	B153222	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
 3761 Attucks Drive
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Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2226304-03	Client Sample Name: JPL GW, MW-21-4, 11/1/2022 8:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	3.3	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	11/22/22 08:00	11/22/22	15:33	SAV	IC6	1	B154372	No Prep

DCN = Data Continuation Number

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Tidewater Inc. - Powell
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Reported: 12/13/2022 8:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2226304-03	Client Sample Name: JPL GW, MW-21-4, 11/1/2022 8:50:00AM, Blaine Tech							
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	1.6	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	11/08/22 11:00	11/08/22	15:32	RC1	IC-4	1	B153374	No Prep
2	EPA-200.8	11/14/22 18:10	11/15/22	12:16	ARD	PE-EL4	1	B153830	EPA 200.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226304-04 **Client Sample Name:** JPL GW, MW-21-3, 11/1/2022 9:15:00AM, 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.42	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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 3761 Attucks Drive
 Powell, OH 43065

Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226304-04	Client Sample Name: JPL GW, MW-21-3, 11/1/2022 9:15:00AM, 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	0.52	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	V11	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: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226304-04	Client Sample Name: JPL GW, MW-21-3, 11/1/2022 9:15:00AM, 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)	97.8	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.1	%	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	11/06/22 10:00	11/07/22 12:52	RCC	MS-V5	1	B153222	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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 Powell, OH 43065

Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2226304-04	Client Sample Name: JPL GW, MW-21-3, 11/1/2022 9:15:00AM, 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	11/06/22 10:00	11/07/22	12:52	RCC	MS-V5	1	B153222	EPA 524.2

DCN = Data Continuation Number



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

Reported: 12/13/2022 8:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2226304-04	Client Sample Name: JPL GW, MW-21-3, 11/1/2022 9:15:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	3.0	ug/L	4.0	1.6	EPA-314.0	ND	J,A10	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	11/22/22 08:00	11/22/22 15:49	SAV	IC6	2	B154372	No Prep

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Tidewater Inc. - Powell
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Reported: 12/13/2022 8:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2226304-04	Client Sample Name: JPL GW, MW-21-3, 11/1/2022 9:15:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00046	mg/L	0.00020	0.000020	EPA-218.6	0.00015		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	Date/Time				Batch ID	Prep Method
1	EPA-218.6	11/07/22 18:00	11/07/22 18:00	11/07/22 19:34	KSA	IC-4	1	B153329	No Prep
2	EPA-200.8	11/14/22 18:10	11/14/22 18:10	11/15/22 11:54	ARD	PE-EL4	1	B153830	EPA 200.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226304-05	Client Sample Name: JPL GW, MW-21-2, 11/1/2022 10:10:00AM, 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.22	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: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2226304-05	Client Sample Name:	JPL GW, MW-21-2, 11/1/2022 10:10:00AM, 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	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	V11	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: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226304-05	Client Sample Name: JPL GW, MW-21-2, 11/1/2022 10:10:00AM, 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)	94.9	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.0	%	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	11/06/22 10:00	11/07/22 16:04	RCC	MS-V5	1	B153222	EPA 524.2

DCN = Data Continuation Number



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 Powell, OH 43065

Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2226304-05	Client Sample Name: JPL GW, MW-21-2, 11/1/2022 10:10:00AM, 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	11/06/22 10:00	11/07/22	16:04	RCC	MS-V5	1	B153222	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 12/13/2022 8:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2226304-05	Client Sample Name: JPL GW, MW-21-2, 11/1/2022 10:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	ND	ug/L	4.0	1.6	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	11/22/22 08:00	11/22/22 16:35	SAV	IC6	2	B154372	No Prep

DCN = Data Continuation Number

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Tidewater Inc. - Powell
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Reported: 12/13/2022 8:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2226304-05	Client Sample Name: JPL GW, MW-21-2, 11/1/2022 10:10:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00018	mg/L	0.00020	0.000020	EPA-218.6	ND	J	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	11/08/22 11:00	11/08/22	13:18	RC1	IC-4	1	B153374	No Prep
2	EPA-200.8	11/14/22 18:10	11/15/22	12:18	ARD	PE-EL4	1	B153830	EPA 200.2

DCN = Data Continuation Number

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Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226304-06	Client Sample Name: JPL GW, MW-11-5, 11/1/2022 11:45:00AM, 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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 Powell, OH 43065

Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226304-06 **Client Sample Name:** JPL GW, MW-11-5, 11/1/2022 11:45:00AM, 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	V11	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: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226304-06	Client Sample Name: JPL GW, MW-11-5, 11/1/2022 11:45:00AM, 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)	99.6	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.6	%	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	11/06/22 10:00	11/07/22 16:27	RCC	MS-V5	1	B153222	EPA 524.2

DCN = Data Continuation Number



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

Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2226304-06	Client Sample Name: JPL GW, MW-11-5, 11/1/2022 11:45:00AM, 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	11/06/22 10:00	11/07/22	16:27	RCC	MS-V5	1	B153222	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
 3761 Attucks Drive
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Reported: 12/13/2022 8:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2226304-06	Client Sample Name: JPL GW, MW-11-5, 11/1/2022 11:45:00AM, 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	11/22/22 08:00	11/22/22	16:50	SAV	IC6	1	B154372	No Prep

DCN = Data Continuation Number

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Reported: 12/13/2022 8:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2226304-06	Client Sample Name: JPL GW, MW-11-5, 11/1/2022 11:45:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00014	mg/L	0.00020	0.000020	EPA-218.6	0.00015	J	1
Total Recoverable Chromium	3.4	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	11/07/22	18:00	11/07/22	20:12	KSA	IC-4	1	B153329	No Prep
2	EPA-200.8	11/14/22	18:10	11/15/22	12:20	ARD	PE-EL4	1	B153830	EPA 200.2

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Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226304-07	Client Sample Name: JPL GW, MW-11-4, 11/1/2022 12:30:00PM, 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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 3761 Attucks Drive
 Powell, OH 43065

Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2226304-07	Client Sample Name:	JPL GW, MW-11-4, 11/1/2022 12:30:00PM, 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	0.30	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	V11	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: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226304-07	Client Sample Name: JPL GW, MW-11-4, 11/1/2022 12:30:00PM, 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)	97.1	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.1	%	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	11/06/22 10:00	11/07/22 16:52	RCC	MS-V5	1	B153222	EPA 524.2

DCN = Data Continuation Number



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

Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2226304-07	Client Sample Name: JPL GW, MW-11-4, 11/1/2022 12:30:00PM, 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	11/06/22 10:00	11/07/22	16:52	RCC	MS-V5	1	B153222	EPA 524.2

DCN = Data Continuation Number



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

Reported: 12/13/2022 8:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2226304-07	Client Sample Name: JPL GW, MW-11-4, 11/1/2022 12:30:00PM, 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	11/22/22 08:00	11/22/22 17:05	SAV	IC6	1	B154372	No Prep

DCN = Data Continuation Number

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Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2226304-07	Client Sample Name: JPL GW, MW-11-4, 11/1/2022 12:30:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.000036	mg/L	0.00020	0.000020	EPA-218.6	0.00015	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	11/07/22 18:00	11/07/22	20:22	KSA	IC-4	1	B153329	No Prep
2	EPA-200.8	11/14/22 18:10	11/15/22	12:22	ARD	PE-EL4	1	B153830	EPA 200.2

DCN = Data Continuation Number

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Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226304-08	Client Sample Name: JPL GW, MW-11-3, 11/1/2022 12:55:00PM, 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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 Powell, OH 43065

Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2226304-08	Client Sample Name:	JPL GW, MW-11-3, 11/1/2022 12:55:00PM, 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	0.76	ug/L	0.50	0.48	EPA-524.2	ND	V11	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: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226304-08	Client Sample Name: JPL GW, MW-11-3, 11/1/2022 12:55:00PM, 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)	97.1	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	89.7	%	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	11/06/22 10:00	11/07/22 17:15	RCC	MS-V5	1	B153222	EPA 524.2

DCN = Data Continuation Number



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

Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2226304-08	Client Sample Name: JPL GW, MW-11-3, 11/1/2022 12:55:00PM, 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	11/06/22 10:00	11/07/22	17:15	RCC	MS-V5	1	B153222	EPA 524.2

DCN = Data Continuation Number



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

Reported: 12/13/2022 8:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2226304-08	Client Sample Name: JPL GW, MW-11-3, 11/1/2022 12:55:00PM, 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	11/22/22 08:00	11/22/22 17:21	SAV	IC6	1	B154372	No Prep

DCN = Data Continuation Number

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Tidewater Inc. - Powell
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Reported: 12/13/2022 8:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2226304-08	Client Sample Name: JPL GW, MW-11-3, 11/1/2022 12:55:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.000072	mg/L	0.00020	0.000020	EPA-218.6	0.00015	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	11/07/22 18:00	11/07/22	20:31	KSA	IC-4	1	B153329	No Prep
2	EPA-200.8	11/14/22 18:10	11/15/22	12:23	ARD	PE-EL4	1	B153830	EPA 200.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226304-09	Client Sample Name: JPL GW, MW-11-2, 11/1/2022 1:25:00PM, 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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

Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226304-09 **Client Sample Name:** JPL GW, MW-11-2, 11/1/2022 1:25:00PM, 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	V11	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: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226304-09	Client Sample Name: JPL GW, MW-11-2, 11/1/2022 1:25:00PM, 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)	96.2	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	89.7	%	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	11/06/22 10:00	11/07/22 17:39	RCC	MS-V5	1	B153222	EPA 524.2

DCN = Data Continuation Number



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

Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2226304-09	Client Sample Name: JPL GW, MW-11-2, 11/1/2022 1:25:00PM, 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	11/06/22 10:00	11/07/22	17:39	RCC	MS-V5	1	B153222	EPA 524.2

DCN = Data Continuation Number



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

Reported: 12/13/2022 8:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2226304-09	Client Sample Name: JPL GW, MW-11-2, 11/1/2022 1:25:00PM, 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	11/22/22 08:00	11/22/22 17:36	SAV	IC6	1	B154372	No Prep

DCN = Data Continuation Number

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Tidewater Inc. - Powell
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Reported: 12/13/2022 8:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2226304-09	Client Sample Name: JPL GW, MW-11-2, 11/1/2022 1:25:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00013	mg/L	0.00020	0.000020	EPA-218.6	0.00015	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	11/07/22 18:00	11/07/22	20:41	KSA	IC-4	1	B153329	No Prep
2	EPA-200.8	11/14/22 18:10	11/15/22	12:25	ARD	PE-EL4	1	B153830	EPA 200.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226304-10 **Client Sample Name:** JPL GW, DUP-8-4Q22, 11/1/2022 1:35:00PM, 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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

Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2226304-10	Client Sample Name:	JPL GW, DUP-8-4Q22, 11/1/2022 1:35:00PM, 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	V11	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: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226304-10 **Client Sample Name:** JPL GW, DUP-8-4Q22, 11/1/2022 1:35:00PM, 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)	96.4	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.4	%	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	11/06/22 10:00	11/07/22 18:03	RCC	MS-V5	1	B153222	EPA 524.2

DCN = Data Continuation Number



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

Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2226304-10	Client Sample Name: JPL GW, DUP-8-4Q22, 11/1/2022 1:35:00PM, 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	11/06/22 10:00	11/07/22	18:03	RCC	MS-V5	1	B153222	EPA 524.2

DCN = Data Continuation Number



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

Reported: 12/13/2022 8:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2226304-10	Client Sample Name: JPL GW, DUP-8-4Q22, 11/1/2022 1:35:00PM, 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	11/22/22 08:00	11/22/22 17:51	SAV	IC6	1	B154372	No Prep

DCN = Data Continuation Number

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Tidewater Inc. - Powell
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Reported: 12/13/2022 8:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2226304-10	Client Sample Name: JPL GW, DUP-8-4Q22, 11/1/2022 1:35:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.000081	mg/L	0.00020	0.000020	EPA-218.6	0.00015	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	11/07/22 18:00	11/07/22 21:10		KSA	IC-4	1	B153329	No Prep
2	EPA-200.8	11/14/22 18:10	11/15/22 12:27		ARD	PE-EL4	1	B153830	EPA 200.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226304-11	Client Sample Name: JPL GW, MW-11-1, 11/1/2022 1:55:00PM, 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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

Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226304-11 **Client Sample Name:** JPL GW, MW-11-1, 11/1/2022 1:55:00PM, 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	V11	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: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226304-11 **Client Sample Name:** JPL GW, MW-11-1, 11/1/2022 1:55:00PM, 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)	96.7	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	87.9	%	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	11/06/22 10:00	11/07/22 18:27	RCC	MS-V5	1	B153222	EPA 524.2

DCN = Data Continuation Number



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

Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2226304-11	Client Sample Name: JPL GW, MW-11-1, 11/1/2022 1:55:00PM, 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	11/06/22 10:00	11/07/22	18:27	RCC	MS-V5	1	B153222	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2226304-11	Client Sample Name: JPL GW, MW-11-1, 11/1/2022 1:55:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Chloride	21	mg/L	0.50	0.13	EPA-300.0	0.16		1
Nitrate as N	0.21	mg/L	0.10	0.024	EPA-300.0	ND		1
Sulfate	45	mg/L	1.0	0.14	EPA-300.0	0.25		1
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		2
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND		3
ortho-Phosphate as P	0.030	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	11/03/22 12:00	11/03/22	13:31	KSA	IC1	1	B153196	No Prep
2	EPA-353.2	11/03/22 12:00	11/03/22	13:34	MC1	KONE-1	1	B153418	No Prep
3	EPA-314.0	11/22/22 08:00	11/22/22	18:07	SAV	IC6	1	B154372	No Prep
4	EPA-365.1	11/03/22 13:00	11/03/22	13:15	MC1	SC-1	1	B153728	No Prep

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Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2226304-11	Client Sample Name: JPL GW, MW-11-1, 11/1/2022 1:55:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00017	mg/L	0.00020	0.000020	EPA-218.6	0.00015	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	11/07/22 18:00	11/07/22	21:19	KSA	IC-4	1	B153329	No Prep
2	EPA-200.8	11/14/22 18:10	11/15/22	12:29	ARD	PE-EL4	1	B153830	EPA 200.2

DCN = Data Continuation Number

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Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226304-12 **Client Sample Name:** NASA/JPL, EB-7-110122, 11/1/2022 2:05:00PM, 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2226304-12	Client Sample Name:	NASA/JPL, EB-7-110122, 11/1/2022 2:05:00PM, 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	V11	1	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1	

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Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226304-12	Client Sample Name: NASA/JPL, EB-7-110122, 11/1/2022 2:05:00PM, 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)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	88.2	%	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	11/06/22 10:00	11/07/22 18:51	RCC	MS-V5	1	B153222	EPA 524.2

DCN = Data Continuation Number



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Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2226304-12	Client Sample Name: NASA/JPL, EB-7-110122, 11/1/2022 2:05:00PM, 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	11/06/22 10:00	11/07/22	18:51	RCC	MS-V5	1	B153222	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 12/13/2022 8:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2226304-12	Client Sample Name: NASA/JPL, EB-7-110122, 11/1/2022 2:05:00PM, 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	11/22/22 08:00	11/22/22 18:22	SAV	IC6	1	B154372	No Prep

DCN = Data Continuation Number

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Reported: 12/13/2022 8:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2226304-12	Client Sample Name: NASA/JPL, EB-7-110122, 11/1/2022 2:05:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00050	mg/L	0.00020	0.000020	EPA-218.6	0.00015		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	11/07/22 18:00	11/07/22	21:29	KSA	IC-4	1	B153329	No Prep
2	EPA-200.8	11/14/22 18:10	11/15/22	12:46	ARD	PE-EL4	1	B153831	EPA 200.2

DCN = Data Continuation Number

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Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226304-13	Client Sample Name: NASA/JPL, SB-2-110122, 11/1/2022 2:15:00PM, 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2226304-13	Client Sample Name:	NASA/JPL, SB-2-110122, 11/1/2022 2:15:00PM, 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	V11	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: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226304-13	Client Sample Name: NASA/JPL, SB-2-110122, 11/1/2022 2:15:00PM, 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)	100	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.7	%	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	11/06/22 10:00	11/07/22 19:15	RCC	MS-V5	1	B153222	EPA 524.2

DCN = Data Continuation Number



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Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2226304-13	Client Sample Name: NASA/JPL, SB-2-110122, 11/1/2022 2:15:00PM, 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	11/06/22 10:00	11/07/22	19:15	RCC	MS-V5	1	B153222	EPA 524.2

DCN = Data Continuation Number



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Reported: 12/13/2022 8:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2226304-13	Client Sample Name: NASA/JPL, SB-2-110122, 11/1/2022 2:15:00PM, 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	11/22/22 08:00	11/22/22 18:37	SAV	IC6	1	B154372	No Prep

DCN = Data Continuation Number

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Reported: 12/13/2022 8:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2226304-13	Client Sample Name: NASA/JPL, SB-2-110122, 11/1/2022 2:15:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00016	mg/L	0.00020	0.000020	EPA-218.6	0.00015	J	1
Total Recoverable Chromium	0.57	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	11/07/22	18:00	11/07/22	21:38	KSA	IC-4	1	B153329	No Prep
2	EPA-200.8	11/14/22	18:10	11/15/22	13:09	ARD	PE-EL4	1	B153831	EPA 200.2

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Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
QC Batch ID: B153222							
Benzene	B153222-BLK1	ND	ug/L	0.50	0.11		1
Bromobenzene	B153222-BLK1	ND	ug/L	0.50	0.15		1
Bromochloromethane	B153222-BLK1	ND	ug/L	0.50	0.27		1
Bromodichloromethane	B153222-BLK1	ND	ug/L	0.50	0.20		1
Bromoform	B153222-BLK1	ND	ug/L	0.50	0.46		1
Bromomethane	B153222-BLK1	ND	ug/L	0.50	0.20		1
n-Butylbenzene	B153222-BLK1	ND	ug/L	0.50	0.15		1
sec-Butylbenzene	B153222-BLK1	ND	ug/L	0.50	0.13		1
tert-Butylbenzene	B153222-BLK1	ND	ug/L	0.50	0.18		1
Carbon tetrachloride	B153222-BLK1	ND	ug/L	0.50	0.17		1
Chlorobenzene	B153222-BLK1	ND	ug/L	0.50	0.14		1
Chloroethane	B153222-BLK1	ND	ug/L	0.50	0.17		1
Chloroform	B153222-BLK1	ND	ug/L	0.50	0.14		1
Chloromethane	B153222-BLK1	ND	ug/L	0.50	0.11		1
2-Chlorotoluene	B153222-BLK1	ND	ug/L	0.50	0.14		1
4-Chlorotoluene	B153222-BLK1	ND	ug/L	0.50	0.093		1
Dibromochloromethane	B153222-BLK1	ND	ug/L	0.50	0.22		1
1,2-Dibromo-3-chloropropane	B153222-BLK1	ND	ug/L	1.0	0.89		1
1,2-Dibromoethane	B153222-BLK1	ND	ug/L	0.50	0.22		1
Dibromomethane	B153222-BLK1	ND	ug/L	0.50	0.23		1
1,2-Dichlorobenzene	B153222-BLK1	ND	ug/L	0.50	0.21		1
1,3-Dichlorobenzene	B153222-BLK1	ND	ug/L	0.50	0.16		1
1,4-Dichlorobenzene	B153222-BLK1	ND	ug/L	0.50	0.15		1
Dichlorodifluoromethane	B153222-BLK1	ND	ug/L	0.50	0.15		1
1,1-Dichloroethane	B153222-BLK1	ND	ug/L	0.50	0.15		1
1,2-Dichloroethane	B153222-BLK1	ND	ug/L	0.50	0.17		1
1,1-Dichloroethene	B153222-BLK1	ND	ug/L	0.50	0.27		1
cis-1,2-Dichloroethene	B153222-BLK1	ND	ug/L	0.50	0.27		1
trans-1,2-Dichloroethene	B153222-BLK1	ND	ug/L	0.50	0.17		1
1,2-Dichloropropane	B153222-BLK1	ND	ug/L	0.50	0.15		1
1,3-Dichloropropane	B153222-BLK1	ND	ug/L	0.50	0.13		1
2,2-Dichloropropane	B153222-BLK1	ND	ug/L	0.50	0.18		1
1,1-Dichloropropene	B153222-BLK1	ND	ug/L	0.50	0.19		1
cis-1,3-Dichloropropene	B153222-BLK1	ND	ug/L	0.50	0.14		1

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Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
QC Batch ID: B153222							
trans-1,3-Dichloropropene	B153222-BLK1	ND	ug/L	0.50	0.13		1
Ethylbenzene	B153222-BLK1	ND	ug/L	0.50	0.15		1
Hexachlorobutadiene	B153222-BLK1	ND	ug/L	0.50	0.20		1
Isopropylbenzene	B153222-BLK1	ND	ug/L	0.50	0.14		1
p-Isopropyltoluene	B153222-BLK1	ND	ug/L	0.50	0.14		1
Methylene chloride	B153222-BLK1	ND	ug/L	0.50	0.21		1
Methyl t-butyl ether	B153222-BLK1	ND	ug/L	0.50	0.14		1
Naphthalene	B153222-BLK1	ND	ug/L	0.50	0.16		1
n-Propylbenzene	B153222-BLK1	ND	ug/L	0.50	0.12		1
Styrene	B153222-BLK1	ND	ug/L	0.50	0.12		1
1,1,1,2-Tetrachloroethane	B153222-BLK1	ND	ug/L	0.50	0.21		1
1,1,1,2,2-Tetrachloroethane	B153222-BLK1	ND	ug/L	0.50	0.17		1
Tetrachloroethene	B153222-BLK1	ND	ug/L	0.50	0.23		1
Toluene	B153222-BLK1	ND	ug/L	0.50	0.17		1
1,2,3-Trichlorobenzene	B153222-BLK1	ND	ug/L	0.50	0.19		1
1,2,4-Trichlorobenzene	B153222-BLK1	ND	ug/L	0.50	0.15		1
1,1,1-Trichloroethane	B153222-BLK1	ND	ug/L	0.50	0.21		1
1,1,2-Trichloroethane	B153222-BLK1	ND	ug/L	0.50	0.21		1
Trichloroethene	B153222-BLK1	ND	ug/L	0.50	0.19		1
Trichlorofluoromethane	B153222-BLK1	ND	ug/L	0.50	0.14		1
1,2,3-Trichloropropane	B153222-BLK1	ND	ug/L	1.0	0.78		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B153222-BLK1	ND	ug/L	0.50	0.19		1
1,2,4-Trimethylbenzene	B153222-BLK1	ND	ug/L	0.50	0.17		1
1,3,5-Trimethylbenzene	B153222-BLK1	ND	ug/L	0.50	0.14		1
Vinyl chloride	B153222-BLK1	ND	ug/L	0.50	0.18		1
Acetone	B153222-BLK1	ND	ug/L	10	6.6		1
Acrylonitrile	B153222-BLK1	ND	ug/L	5.0	1.5		1
Allyl chloride	B153222-BLK1	ND	ug/L	5.0	0.47		1
t-Amyl Methyl ether	B153222-BLK1	ND	ug/L	0.50	0.19		1
t-Butyl alcohol	B153222-BLK1	ND	ug/L	2.0	2.0		1
Carbon disulfide	B153222-BLK1	ND	ug/L	0.50	0.48		1
trans-1,4-Dichloro-2-butene	B153222-BLK1	ND	ug/L	5.0	1.8		1
Diethyl ether	B153222-BLK1	ND	ug/L	2.0	0.33		1
Ethyl methacrylate	B153222-BLK1	ND	ug/L	4.0	1.3		1

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Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
QC Batch ID: B153222							
Ethyl t-butyl ether	B153222-BLK1	ND	ug/L	0.50	0.32		1
Hexachloroethane	B153222-BLK1	ND	ug/L	0.50	0.11		1
2-Hexanone	B153222-BLK1	ND	ug/L	10	5.0		1
Methacrylonitrile	B153222-BLK1	ND	ug/L	10	2.3		1
Methyl ethyl ketone	B153222-BLK1	ND	ug/L	5.0	3.3		1
Methyl iodide	B153222-BLK1	ND	ug/L	2.0	1.1		1
Methyl isobutyl ketone	B153222-BLK1	ND	ug/L	5.0	2.4		1
Methyl methacrylate	B153222-BLK1	ND	ug/L	5.0	1.2		1
Pentachloroethane	B153222-BLK1	ND	ug/L	2.0	0.63		1
Propionitrile	B153222-BLK1	ND	ug/L	20	6.2		1
Tetrahydrofuran	B153222-BLK1	ND	ug/L	20	5.2		1
p- & m-Xylenes	B153222-BLK1	ND	ug/L	0.50	0.34		1
o-Xylene	B153222-BLK1	ND	ug/L	0.50	0.13		1
1,2-Dichloroethane-d4 (Surrogate)	B153222-BLK1	95.3	%	75 - 125 (LCL - UCL)			1
Toluene-d8 (Surrogate)	B153222-BLK1	99.4	%	80 - 120 (LCL - UCL)			1
4-Bromofluorobenzene (Surrogate)	B153222-BLK1	92.0	%	80 - 120 (LCL - UCL)			1

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Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
								Percent Recovery	RPD		
QC Batch ID: B153222											
Benzene	B153222-BS1	LCS	23.150	25.000	ug/L	92.6		70 - 130			1
Bromodichloromethane	B153222-BS1	LCS	27.120	25.000	ug/L	108		70 - 130			1
Chlorobenzene	B153222-BS1	LCS	26.100	25.000	ug/L	104		70 - 130			1
Chloroethane	B153222-BS1	LCS	23.250	25.000	ug/L	93.0		70 - 130			1
1,4-Dichlorobenzene	B153222-BS1	LCS	28.290	25.000	ug/L	113		70 - 130			1
1,1-Dichloroethane	B153222-BS1	LCS	23.400	25.000	ug/L	93.6		70 - 130			1
1,1-Dichloroethene	B153222-BS1	LCS	25.420	25.000	ug/L	102		70 - 130			1
Toluene	B153222-BS1	LCS	24.610	25.000	ug/L	98.4		70 - 130			1
Trichloroethene	B153222-BS1	LCS	24.650	25.000	ug/L	98.6		70 - 130			1
1,2-Dichloroethane-d4 (Surrogate)	B153222-BS1	LCS	9.5600	10.000	ug/L	95.6		75 - 125			1
Toluene-d8 (Surrogate)	B153222-BS1	LCS	10.060	10.000	ug/L	101		80 - 120			1
4-Bromofluorobenzene (Surrogate)	B153222-BS1	LCS	9.7800	10.000	ug/L	97.8		80 - 120			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B153222-BS1	LCS	EPA-524.2	11/06/22	11/07/22	13:16	RCC	MS-V5	1
1	B153222-BS1	LCS	EPA-524.2	11/06/22	11/07/22	13:16	RCC	MS-V5	1
1	B153222-BS1	LCS	EPA-524.2	11/06/22	11/07/22	13:16	RCC	MS-V5	1
1	B153222-BS1	LCS	EPA-524.2	11/06/22	11/07/22	13:16	RCC	MS-V5	1
1	B153222-BS1	LCS	EPA-524.2	11/06/22	11/07/22	13:16	RCC	MS-V5	1
1	B153222-BS1	LCS	EPA-524.2	11/06/22	11/07/22	13:16	RCC	MS-V5	1
1	B153222-BS1	LCS	EPA-524.2	11/06/22	11/07/22	13:16	RCC	MS-V5	1
1	B153222-BS1	LCS	EPA-524.2	11/06/22	11/07/22	13:16	RCC	MS-V5	1
1	B153222-BS1	LCS	EPA-524.2	11/06/22	11/07/22	13:16	RCC	MS-V5	1
1	B153222-BS1	LCS	EPA-524.2	11/06/22	11/07/22	13:16	RCC	MS-V5	1
1	B153222-BS1	LCS	EPA-524.2	11/06/22	11/07/22	13:16	RCC	MS-V5	1
1	B153222-BS1	LCS	EPA-524.2	11/06/22	11/07/22	13:16	RCC	MS-V5	1
1	B153222-BS1	LCS	EPA-524.2	11/06/22	11/07/22	13:16	RCC	MS-V5	1
1	B153222-BS1	LCS	EPA-524.2	11/06/22	11/07/22	13:16	RCC	MS-V5	1
1	B153222-BS1	LCS	EPA-524.2	11/06/22	11/07/22	13:16	RCC	MS-V5	1

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Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	R#
									RPD	Percent Recovery		
QC Batch ID: B153222		Used client sample: Y - Description: MW-21-3, 11/01/2022 09:15										
Benzene	MS	2226304-04	ND	23.020	25.000	ug/L		92.1		70 - 130		1
	MSD	2226304-04	ND	22.630	25.000	ug/L	1.7	90.5	20	70 - 130		2
Bromodichloromethane	MS	2226304-04	ND	27.920	25.000	ug/L		112		70 - 130		1
	MSD	2226304-04	ND	27.600	25.000	ug/L	1.2	110	20	70 - 130		2
Chlorobenzene	MS	2226304-04	ND	25.500	25.000	ug/L		102		70 - 130		1
	MSD	2226304-04	ND	25.530	25.000	ug/L	0.1	102	20	70 - 130		2
Chloroethane	MS	2226304-04	ND	23.210	25.000	ug/L		92.8		70 - 130		1
	MSD	2226304-04	ND	22.660	25.000	ug/L	2.4	90.6	20	70 - 130		2
1,4-Dichlorobenzene	MS	2226304-04	ND	27.540	25.000	ug/L		110		70 - 130		1
	MSD	2226304-04	ND	28.370	25.000	ug/L	3.0	113	20	70 - 130		2
1,1-Dichloroethane	MS	2226304-04	ND	23.510	25.000	ug/L		94.0		70 - 130		1
	MSD	2226304-04	ND	23.040	25.000	ug/L	2.0	92.2	20	70 - 130		2
1,1-Dichloroethene	MS	2226304-04	ND	25.160	25.000	ug/L		101		70 - 130		1
	MSD	2226304-04	ND	24.560	25.000	ug/L	2.4	98.2	20	70 - 130		2
Toluene	MS	2226304-04	ND	24.490	25.000	ug/L		98.0		70 - 130		1
	MSD	2226304-04	ND	24.360	25.000	ug/L	0.5	97.4	20	70 - 130		2
Trichloroethene	MS	2226304-04	0.96000	25.070	25.000	ug/L		96.4		70 - 130		1
	MSD	2226304-04	0.96000	24.930	25.000	ug/L	0.6	95.9	20	70 - 130		2
1,2-Dichloroethane-d4 (Surrogate)	MS	2226304-04	ND	9.7200	10.000	ug/L		97.2		75 - 125		1
	MSD	2226304-04	ND	9.4600	10.000	ug/L	2.7	94.6		75 - 125		2
Toluene-d8 (Surrogate)	MS	2226304-04	ND	10.170	10.000	ug/L		102		80 - 120		1
	MSD	2226304-04	ND	10.190	10.000	ug/L	0.2	102		80 - 120		2
4-Bromofluorobenzene (Surrogate)	MS	2226304-04	ND	9.6700	10.000	ug/L		96.7		80 - 120		1
	MSD	2226304-04	ND	9.7900	10.000	ug/L	1.2	97.9		80 - 120		2

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

Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
QC Batch ID: B153222							
Nitrobenzene	B153222-BLK1	0	ug/L				1
Methyl acrylate	B153222-BLK1	0	ug/L				1
Chloroacetonitrile	B153222-BLK1	0	ug/L				1
2-Nitropropane	B153222-BLK1	0	ug/L				1
1-Chlorobutane	B153222-BLK1	0	ug/L				1
1,1-Dichloropropanone	B153222-BLK1	0	ug/L				1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B153222-BLK1	PB	EPA-524.2	11/06/22	11/07/22	12:04	RCC	MS-V5	1
1	B153222-BLK1	PB	EPA-524.2	11/06/22	11/07/22	12:04	RCC	MS-V5	1
1	B153222-BLK1	PB	EPA-524.2	11/06/22	11/07/22	12:04	RCC	MS-V5	1
1	B153222-BLK1	PB	EPA-524.2	11/06/22	11/07/22	12:04	RCC	MS-V5	1
1	B153222-BLK1	PB	EPA-524.2	11/06/22	11/07/22	12:04	RCC	MS-V5	1
1	B153222-BLK1	PB	EPA-524.2	11/06/22	11/07/22	12:04	RCC	MS-V5	1

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Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
QC Batch ID: B153196							
Chloride	B153196-BLK1	0.16200	mg/L	0.50	0.13	J	1
Nitrate as N	B153196-BLK1	ND	mg/L	0.10	0.024		1
Sulfate	B153196-BLK1	0.24800	mg/L	1.0	0.14	J	1
QC Batch ID: B153418							
Nitrite as N	B153418-BLK1	ND	mg/L	0.050	0.010		2
QC Batch ID: B153728							
ortho-Phosphate as P	B153728-BLK1	ND	mg/L	0.050	0.017		3
QC Batch ID: B154372							
Perchlorate	B154372-BLK1	ND	ug/L	2.0	0.81		4

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B153196-BLK1	PB	EPA-300.0	11/03/22	11/03/22 12:48	RC1	IC1	1
1	B153196-BLK1	PB	EPA-300.0	11/03/22	11/03/22 12:48	RC1	IC1	1
1	B153196-BLK1	PB	EPA-300.0	11/03/22	11/03/22 12:48	RC1	IC1	1
2	B153418-BLK1	PB	EPA-353.2	11/03/22	11/03/22 13:34	MC1	KONE-1	1
3	B153728-BLK1	PB	EPA-365.1	11/03/22	11/03/22 13:15	MC1	SC-1	1
4	B154372-BLK1	PB	EPA-314.0	11/22/22	11/22/22 14:01	SAV	IC6	1

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Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
								Percent Recovery	RPD		
QC Batch ID: B153196											
Chloride	B153196-BS1	LCS	51.476	50.000	mg/L	103		90 - 110			1
Nitrate as N	B153196-BS1	LCS	5.1380	5.0000	mg/L	103		90 - 110			1
Sulfate	B153196-BS1	LCS	100.82	100.00	mg/L	101		90 - 110			1
QC Batch ID: B153418											
Nitrite as N	B153418-BS1	LCS	0.49756	0.50000	mg/L	99.5		90 - 110			2
QC Batch ID: B153728											
ortho-Phosphate as P	B153728-BS1	LCS	0.48300	0.50000	mg/L	96.6		90 - 110			3
QC Batch ID: B154372											
Perchlorate	B154372-BS1	LCS	10.547	10.000	ug/L	105		85 - 115			4

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B153196-BS1	LCS	EPA-300.0	11/03/22	11/03/22	13:09	RC1	IC1	1
1	B153196-BS1	LCS	EPA-300.0	11/03/22	11/03/22	13:09	RC1	IC1	1
1	B153196-BS1	LCS	EPA-300.0	11/03/22	11/03/22	13:09	RC1	IC1	1
2	B153418-BS1	LCS	EPA-353.2	11/03/22	11/03/22	13:34	MC1	KONE-1	1
3	B153728-BS1	LCS	EPA-365.1	11/03/22	11/03/22	13:14	MC1	SC-1	1
4	B154372-BS1	LCS	EPA-314.0	11/22/22	11/22/22	14:17	SAV	IC6	1

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Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	R#
									RPD	Percent Recovery		
QC Batch ID: B153196		Used client sample: Y - Description: MW-11-1, 11/01/2022 13:55										
Chloride	DUP	2226304-11	21.164	21.258		mg/L	0.4		10			1
	MS	2226304-11	21.164	76.568	50.505	mg/L		110		80 - 120		2
	MSD	2226304-11	21.164	76.739	50.505	mg/L	0.2	110	10	80 - 120		3
Nitrate as N	DUP	2226304-11	0.21200	0.18800		mg/L	12.0		10		A02	1
	MS	2226304-11	0.21200	5.4081	5.0505	mg/L		103		80 - 120		2
	MSD	2226304-11	0.21200	5.3737	5.0505	mg/L	0.6	102	10	80 - 120		3
Sulfate	DUP	2226304-11	44.596	44.661		mg/L	0.1		10			1
	MS	2226304-11	44.596	152.56	101.01	mg/L		107		80 - 120		2
	MSD	2226304-11	44.596	152.54	101.01	mg/L	0.0	107	10	80 - 120		3
QC Batch ID: B153418		Used client sample: Y - Description: MW-11-1, 11/01/2022 13:55										
Nitrite as N	DUP	2226304-11	ND	ND		mg/L			10			4
	MS	2226304-11	ND	0.52901	0.52632	mg/L		101		90 - 110		5
	MSD	2226304-11	ND	0.51373	0.52632	mg/L	2.9	97.6	10	90 - 110		6
QC Batch ID: B153728		Used client sample: Y - Description: MW-11-1, 11/01/2022 13:55										
ortho-Phosphate as P	DUP	2226304-11	0.029800	0.030500		mg/L	2.3		10		J	7
	MS	2226304-11	0.029800	0.53590	0.50000	mg/L		101		90 - 110		8
	MSD	2226304-11	0.029800	0.53840	0.50000	mg/L	0.5	102	10	90 - 110		9
QC Batch ID: B154372		Used client sample: Y - Description: MW-21-5, 11/01/2022 08:25										
Perchlorate	DUP	2226304-02	3.0092	3.2671		ug/L	8.2		15			10
	MS	2226304-02	3.0092	13.752	10.101	ug/L		106		80 - 120		11
	MSD	2226304-02	3.0092	13.754	10.101	ug/L	0.0	106	15	80 - 120		12

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Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B153196-DUP1	DUP	EPA-300.0	11/03/22	11/03/22 13:52	KSA	IC1	1
1	B153196-DUP1	DUP	EPA-300.0	11/03/22	11/03/22 13:52	KSA	IC1	1
1	B153196-DUP1	DUP	EPA-300.0	11/03/22	11/03/22 13:52	KSA	IC1	1
2	B153196-MS1	MS	EPA-300.0	11/03/22	11/03/22 14:13	KSA	IC1	1.010
2	B153196-MS1	MS	EPA-300.0	11/03/22	11/03/22 14:13	KSA	IC1	1.010
2	B153196-MS1	MS	EPA-300.0	11/03/22	11/03/22 14:13	KSA	IC1	1.010
3	B153196-MSD1	MSD	EPA-300.0	11/03/22	11/03/22 14:35	KSA	IC1	1.010
3	B153196-MSD1	MSD	EPA-300.0	11/03/22	11/03/22 14:35	KSA	IC1	1.010
3	B153196-MSD1	MSD	EPA-300.0	11/03/22	11/03/22 14:35	KSA	IC1	1.010
4	B153418-DUP1	DUP	EPA-353.2	11/03/22	11/03/22 13:34	MC1	KONE-1	1
5	B153418-MS1	MS	EPA-353.2	11/03/22	11/03/22 13:34	MC1	KONE-1	1.053
6	B153418-MSD1	MSD	EPA-353.2	11/03/22	11/03/22 13:34	MC1	KONE-1	1.053
7	B153728-DUP1	DUP	EPA-365.1	11/03/22	11/03/22 13:16	MC1	SC-1	1
8	B153728-MS1	MS	EPA-365.1	11/03/22	11/03/22 13:16	MC1	SC-1	1
9	B153728-MSD1	MSD	EPA-365.1	11/03/22	11/03/22 13:17	MC1	SC-1	1
10	B154372-DUP1	DUP	EPA-314.0	11/22/22	11/23/22 08:54	SAV	IC6	1
11	B154372-MS1	MS	EPA-314.0	11/22/22	11/23/22 09:09	SAV	IC6	1.010
12	B154372-MSD1	MSD	EPA-314.0	11/22/22	11/23/22 09:24	SAV	IC6	1.010

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Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B153329							
Hexavalent Chromium	B153329-BLK1	0.00015200	mg/L	0.00020	0.000020	J,M02	1
QC Batch ID: B153374							
Hexavalent Chromium	B153374-BLK1	ND	mg/L	0.00020	0.000020		2
QC Batch ID: B153830							
Total Recoverable Chromium	B153830-BLK1	ND	ug/L	3.0	0.50		3
QC Batch ID: B153831							
Total Recoverable Chromium	B153831-BLK1	ND	ug/L	3.0	0.50		4

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B153329-BLK1	PB	EPA-218.6	11/07/22	11/07/22 19:15	KSA	IC-4	1
2	B153374-BLK1	PB	EPA-218.6	11/08/22	11/08/22 12:59	RC1	IC-4	1
3	B153830-BLK1	PB	EPA-200.8	11/14/22	11/15/22 11:52	ARD	PE-EL4	1
4	B153831-BLK1	PB	EPA-200.8	11/14/22	11/15/22 12:44	ARD	PE-EL4	1

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Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
								Percent Recovery	RPD		
QC Batch ID: B153329											
Hexavalent Chromium	B153329-BS1	LCS	0.020393	0.020000	mg/L	102		90 - 110			1
QC Batch ID: B153374											
Hexavalent Chromium	B153374-BS1	LCS	0.021292	0.020000	mg/L	106		90 - 110			2
QC Batch ID: B153830											
Total Recoverable Chromium	B153830-BS1	LCS	41.635	40.000	ug/L	104		85 - 115			3
QC Batch ID: B153831											
Total Recoverable Chromium	B153831-BS1	LCS	40.243	40.000	ug/L	101		85 - 115			4

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B153329-BS1	LCS	EPA-218.6	11/07/22	11/07/22 19:24	KSA	IC-4	1
2	B153374-BS1	LCS	EPA-218.6	11/08/22	11/08/22 13:08	RC1	IC-4	1
3	B153830-BS1	LCS	EPA-200.8	11/14/22	11/15/22 11:59	ARD	PE-EL4	1
4	B153831-BS1	LCS	EPA-200.8	11/14/22	11/15/22 12:54	ARD	PE-EL4	1

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Reported: 12/13/2022 8:21
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	R#
									RPD	Percent Recovery		
QC Batch ID: B153329		Used client sample: Y - Description: MW-21-3, 11/01/2022 09:15										
Hexavalent Chromium	DUP	2226304-04	0.00045900	0.00043400		mg/L	5.6		10			1
	MS	2226304-04	0.00045900	0.019667	0.020202	mg/L		95.1		90 - 110		2
	MSD	2226304-04	0.00045900	0.020618	0.020202	mg/L	4.7	99.8	10	90 - 110		3
QC Batch ID: B153374		Used client sample: Y - Description: MW-21-2, 11/01/2022 10:10										
Hexavalent Chromium	DUP	2226304-05	0.00017900	0.00018000		mg/L	0.6		10		J	4
	MS	2226304-05	0.00017900	0.019305	0.020202	mg/L		94.7		90 - 110		5
	MSD	2226304-05	0.00017900	0.019422	0.020202	mg/L	0.6	95.3	10	90 - 110		6
QC Batch ID: B153830		Used client sample: Y - Description: MW-21-3, 11/01/2022 09:15										
Total Recoverable Chromium	DUP	2226304-04	ND	0.52900		ug/L			20		J	7
	MS	2226304-04	ND	40.870	40.000	ug/L		102		70 - 130		8
	MSD	2226304-04	ND	42.792	40.000	ug/L	4.6	107	20	70 - 130		9
QC Batch ID: B153831		Used client sample: Y - Description: EB-7-110122, 11/01/2022 14:05										
Total Recoverable Chromium	DUP	2226304-12	ND	ND		ug/L			20			10
	MS	2226304-12	ND	41.363	40.000	ug/L		103		70 - 130		11
	MSD	2226304-12	ND	43.388	40.000	ug/L	4.8	108	20	70 - 130		12

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B153329-DUP1	DUP	EPA-218.6	11/07/22	11/07/22	19:43	KSA	IC-4	1
2	B153329-MS1	MS	EPA-218.6	11/07/22	11/07/22	19:53	KSA	IC-4	1.010
3	B153329-MSD1	MSD	EPA-218.6	11/07/22	11/07/22	20:03	KSA	IC-4	1.010
4	B153374-DUP1	DUP	EPA-218.6	11/08/22	11/08/22	13:28	RC1	IC-4	1
5	B153374-MS1	MS	EPA-218.6	11/08/22	11/08/22	13:37	RC1	IC-4	1.010
6	B153374-MSD1	MSD	EPA-218.6	11/08/22	11/08/22	13:47	RC1	IC-4	1.010
7	B153830-DUP1	DUP	EPA-200.8	11/14/22	11/15/22	11:56	ARD	PE-EL4	1
8	B153830-MS1	MS	EPA-200.8	11/14/22	11/15/22	12:01	ARD	PE-EL4	1
9	B153830-MSD1	MSD	EPA-200.8	11/14/22	11/15/22	12:03	ARD	PE-EL4	1
10	B153831-DUP1	DUP	EPA-200.8	11/14/22	11/15/22	12:52	ARD	PE-EL4	1
11	B153831-MS1	MS	EPA-200.8	11/14/22	11/15/22	12:56	ARD	PE-EL4	1
12	B153831-MSD1	MSD	EPA-200.8	11/14/22	11/15/22	12:57	ARD	PE-EL4	1

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Reported: 12/13/2022 8:21
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected
PQL	Practical Quantitation Limit
A02	The difference between duplicate readings is less than the quantitation limit.
A10	Detection and quantitation limits were raised due to matrix interference.
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: 11/30/2022

David Conner

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

Client Project: [none]
BCL Project: JPL- GW Monitoring Wells-CLP
BCL Work Order: 2226382
Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 10/31/2022. 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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Case Narratives

Case Narrative for Work Order 2226382

Advised client Cr6 samples run past hold time.

261-01-10/31/22-1A-1 cooler

Page 1 of 2

Chain of Custody Form



Client: Tidewater, Inc. **City:** Powell **State:** OH **Zip:** 43065
Address: 3761 Allucks Drive
Phone: (626) 288-5715 **Fax:** 614 792-2887
Email: david.comner@tidwh2o.net

Project Description: JPL-GW Monitoring
Project Code: 4Q22
Sampler(s): Blaine Tech

Matrix: Wastewater Groundwater Liquid Other

Turnaround # of working days: 24 Hr Rush 48 Hr Rush 3-5 Day Rush

Lab TAT Approval: _____

Sample #	Sample Description	Date	Time	Matrix
-1	TB-6-103122	10/31/22	0700	GW
-2	MW-4-5		0745	GW
-3	MW-4-4		0510	GW
-4	MW-4-3		0835	GW
-5	DUP-7-4612		0845	GW
-6	MW-4-2		0930	GW
-7	MW-12-5		1050	GW
-8	MW-12-4		1125	GW
-9	MW-12-3		1210	GW
-10	MW-12-2		1245	GW
-11	EB-6-103122		1300	GW

Analysis Requested:
 Orthophosphate 365.1
 Cl, NO3, NO2, SO4
 Hexavalent Cr-2186 (mg/L)
 Perchlorate
 TRM-Cr
 VOCs EPA 524.2

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

Notes:
 Laboratory please select 2 subs for level IV validation

Global ID: _____
1. Relinquished By: _____ **Date:** 10/31/22 **Time:** 1345
2. Relinquished By: _____ **Date:** 10/31/22 **Time:** 1745
3. Relinquished By: _____ **Date:** 10/31/22 **Time:** 1745

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

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

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page 1 of 2							
Submission #: <u>22-26382</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 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>0.98</u> Container: <u>VOA</u> Thermometer ID: <u>221</u>		Date/Time <u>10/31/05</u>							
		Temperature: (A) <u>0.3</u> °C / (C) <u>0.1</u> °C		Analyst Init <u>TCL</u>							
SAMPLE CONTAINERS		SAMPLE NUMBERS									
		1	2	3	4	5	6	7	8	9	10
QT PE UNPRES		D	D	D	D	D	D	D	D	D	D
4oz / 8oz / 16oz PE UNPRES		D	D	D	D	D	D	D	D	D	D
2oz Cr ⁶		E	E	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	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	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 508/608.3/8051A											
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 3015M											
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: TODD L. Date/Time: 11-3-22 1930 Rev 23 05/20/22
 A = Actual / C = Corrected (S:\WP\Doc\Work\PerfectLAB_DOC\FORMS\3485REV20)

PACE ANALYTICAL		COOLER RECEIPT FORM		Page <u>3</u> Of <u>2</u>	
Submission #: <u>22-26382</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 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"/> 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>0.96</u> Container: <u>VOA</u> Thermometer ID: <u>374</u>		Date/Time <u>10/31/18</u>	
		Temperature: (A) <u>0.3</u> °C / (C) <u>0.1</u> °C		Analyst Init <u>TCL</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 ⁶⁺	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										
PTA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A-C									
40ml VOA VIAL										
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL - 50c										
QT EPA 508/608,3/8/51A										
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: TCL Date/Time: 11-3-22 1930 (Rev 23 05/20/22)
 A = Actual / C = Corrected [S:\WPDoc\Word\PerfectLAB_DOC\0805151A\FREDev 20]



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

Reported: 11/30/2022 9:58
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
2226382-01	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: TB-6-103122 Sampled By: Blaine Tech of BTST	Receive Date: 10/31/2022 17:45 Sampling Date: 10/31/2022 07:00 Sample Depth: --- Lab Matrix: Water Sample Type: Trip Blank Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-6 Matrix: WG Sample QC Type (SACode): CS Cooler ID:	
2226382-02	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: MW-4-5 Sampled By: Blaine Tech of BTST	Receive Date: 10/31/2022 17:45 Sampling Date: 10/31/2022 07:45 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-4-5 Matrix: WG Sample QC Type (SACode): CS Cooler ID:	
2226382-03	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: MW-4-4 Sampled By: Blaine Tech of BTST	Receive Date: 10/31/2022 17:45 Sampling Date: 10/31/2022 08:10 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-4-4 Matrix: WG Sample QC Type (SACode): CS Cooler ID:	

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

Reported: 11/30/2022 9:58
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
2226382-04	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: MW-4-3 Sampled By: Blaine Tech of BTST	Receive Date: 10/31/2022 17:45 Sampling Date: 10/31/2022 08:35 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-4-3 Matrix: WG Sample QC Type (SACode): CS Cooler ID:	
2226382-05	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: DUP-7-4Q22 Sampled By: Blaine Tech of BTST	Receive Date: 10/31/2022 17:45 Sampling Date: 10/31/2022 08:45 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): DUP-7-4Q22 Matrix: WG Sample QC Type (SACode): CS Cooler ID:	
2226382-06	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: MW-4-2 Sampled By: Blaine Tech of BTST	Receive Date: 10/31/2022 17:45 Sampling Date: 10/31/2022 09:30 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 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: 11/30/2022 9:58
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
2226382-07	COC Number:	---	Receive Date: 10/31/2022 17:45
	Project Number:	NASA/JPL	Sampling Date: 10/31/2022 10:50
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	MW-12-5	Lab Matrix: Water
	Sampled By:	Blaine Tech of BTST	Sample Type: Groundwater
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): MW-12-5
			Matrix: WG
			Sample QC Type (SACode): CS
		Cooler ID:	
2226382-08	COC Number:	---	Receive Date: 10/31/2022 17:45
	Project Number:	NASA/JPL	Sampling Date: 10/31/2022 11:25
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	MW-12-4	Lab Matrix: Water
	Sampled By:	Blaine Tech of BTST	Sample Type: Groundwater
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): MW-12-4
			Matrix: WG
			Sample QC Type (SACode): CS
		Cooler ID:	
2226382-09	COC Number:	---	Receive Date: 10/31/2022 17:45
	Project Number:	NASA/JPL	Sampling Date: 10/31/2022 12:10
	Sampling Location:	---	Sample Depth: ---
	Sampling Point:	MW-12-3	Lab Matrix: Water
	Sampled By:	Blaine Tech of BTST	Sample Type: Groundwater
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): MW-12-3
			Matrix: WG
			Sample QC Type (SACode): CS
		Cooler ID:	

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

Reported: 11/30/2022 9:58
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
2226382-10	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: MW-12-2 Sampled By: Blaine Tech of BTST	Receive Date: 10/31/2022 17:45 Sampling Date: 10/31/2022 12:45 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-12-2 Matrix: WG Sample QC Type (SACode): CS Cooler ID:	
2226382-11	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: EB-6-103122 Sampled By: Blaine Tech of BTST	Receive Date: 10/31/2022 17:45 Sampling Date: 10/31/2022 13:00 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-6 Matrix: WG Sample QC Type (SACode): CS Cooler ID:	

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

Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226382-01	Client Sample Name: JPL, TB-6-103122, 10/31/2022 7:00:00AM, 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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

Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226382-01 **Client Sample Name:** JPL, TB-6-103122, 10/31/2022 7:00:00AM, 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	0.59	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	V11	1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226382-01	Client Sample Name: JPL, TB-6-103122, 10/31/2022 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)	97.0	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	88.8	%	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	11/07/22 08:00	11/07/22 20:03	RCC	MS-V5	1	B153223	EPA 524.2

DCN = Data Continuation Number



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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2226382-01	Client Sample Name: JPL, TB-6-103122, 10/31/2022 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	11/07/22 08:00	11/07/22	20:03	RCC	MS-V5	1	B153223	EPA 524.2

DCN = Data Continuation Number



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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226382-02	Client Sample Name: NASA/JPL, MW-4-5, 10/31/2022 7:45:00AM, 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226382-02 **Client Sample Name:** NASA/JPL, MW-4-5, 10/31/2022 7:45:00AM, 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	V11	1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226382-02 **Client Sample Name:** NASA/JPL, MW-4-5, 10/31/2022 7:45:00AM, 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		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)	94.5	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.6	%	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	11/08/22 08:00	11/08/22 14:45	RCC	MS-V5	1	B153223	EPA 524.2

DCN = Data Continuation Number

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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2226382-02	Client Sample Name: NASA/JPL, MW-4-5, 10/31/2022 7:45:00AM, 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	11/08/22 08:00	11/08/22	14:45	RCC	MS-V5	1	B153223	EPA 524.2

DCN = Data Continuation Number



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Reported: 11/30/2022 9:58
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2226382-02	Client Sample Name: NASA/JPL, MW-4-5, 10/31/2022 7:45:00AM, 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	11/22/22 08:00	11/22/22	18:53	SAV	IC6	1	B154372	No Prep

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Reported: 11/30/2022 9:58
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2226382-02	Client Sample Name: NASA/JPL, MW-4-5, 10/31/2022 7:45:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.000055	mg/L	0.00020	0.000020	EPA-218.6	0.000025	J,S05	1
Total Recoverable Chromium	1.2	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	11/15/22 15:00	11/16/22 16:01		KSA	IC-4	1	B154006	No Prep
2	EPA-200.8	11/14/22 20:20	11/15/22 15:03		ARD	PE-EL4	1	B153833	EPA 200.2

DCN = Data Continuation Number

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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226382-03	Client Sample Name: NASA/JPL, MW-4-4, 10/31/2022 8:10:00AM, 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226382-03 **Client Sample Name:** NASA/JPL, MW-4-4, 10/31/2022 8:10:00AM, 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	V11	1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226382-03	Client Sample Name: NASA/JPL, MW-4-4, 10/31/2022 8:10:00AM, 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)	96.7	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	86.2	%	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	11/07/22 08:00	11/07/22 20:27	RCC	MS-V5	1	B153223	EPA 524.2

DCN = Data Continuation Number



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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2226382-03	Client Sample Name: NASA/JPL, MW-4-4, 10/31/2022 8:10:00AM, 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	11/07/22 08:00	11/07/22	20:27	RCC	MS-V5	1	B153223	EPA 524.2

DCN = Data Continuation Number



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Reported: 11/30/2022 9:58
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2226382-03	Client Sample Name: NASA/JPL, MW-4-4, 10/31/2022 8:10:00AM, Blaine Tech
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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	11/22/22 08:00	11/22/22 19:39	SAV	IC6	1	B154372	No Prep

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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2226382-03	Client Sample Name: NASA/JPL, MW-4-4, 10/31/2022 8:10:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00021	mg/L	0.00020	0.000020	EPA-218.6	0.000025	S05	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	11/15/22 15:00	11/16/22 16:11		KSA	IC-4	1	B154006	No Prep
2	EPA-200.8	11/14/22 20:20	11/15/22 15:22		ARD	PE-EL4	1	B153833	EPA 200.2

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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226382-04 **Client Sample Name:** NASA/JPL, MW-4-3, 10/31/2022 8:35:00AM, 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226382-04 **Client Sample Name:** NASA/JPL, MW-4-3, 10/31/2022 8:35:00AM, 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	V11	1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226382-04	Client Sample Name: NASA/JPL, MW-4-3, 10/31/2022 8:35:00AM, 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)	97.7	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.0	%	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	11/07/22 08:00	11/07/22 20:51	RCC	MS-V5	1	B153223	EPA 524.2

DCN = Data Continuation Number



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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2226382-04	Client Sample Name: NASA/JPL, MW-4-3, 10/31/2022 8:35:00AM, 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	11/07/22 08:00	11/07/22	20:51	RCC	MS-V5	1	B153223	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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 Powell, OH 43065

Reported: 11/30/2022 9:58
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2226382-04	Client Sample Name: NASA/JPL, MW-4-3, 10/31/2022 8:35:00AM, Blaine Tech
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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	11/22/22 08:00	11/22/22 19:54	SAV	IC6	1	B154372	No Prep

DCN = Data Continuation Number

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Reported: 11/30/2022 9:58
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2226382-04	Client Sample Name: NASA/JPL, MW-4-3, 10/31/2022 8:35:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00016	mg/L	0.00020	0.000020	EPA-218.6	0.000025	J,S05	1
Total Recoverable Chromium	1.0	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	11/15/22 15:00	11/16/22 16:21		KSA	IC-4	1	B154006	No Prep
2	EPA-200.8	11/14/22 20:20	11/15/22 15:23		ARD	PE-EL4	1	B153833	EPA 200.2

DCN = Data Continuation Number



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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226382-05	Client Sample Name: JPL, DUP-7-4Q22, 10/31/2022 8:45:00AM, 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226382-05 **Client Sample Name:** JPL, DUP-7-4Q22, 10/31/2022 8:45:00AM, 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	V11	1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226382-05	Client Sample Name: JPL, DUP-7-4Q22, 10/31/2022 8:45:00AM, 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		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)	97.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.1	%	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	11/08/22 08:00	11/08/22 12:22	RCC	MS-V5	1	B153223	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2226382-05	Client Sample Name: JPL, DUP-7-4Q22, 10/31/2022 8:45:00AM, 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	11/08/22 08:00	11/08/22	12:22	RCC	MS-V5	1	B153223	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 11/30/2022 9:58
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2226382-05	Client Sample Name: JPL, DUP-7-4Q22, 10/31/2022 8:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	1.3	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	11/22/22 08:00	11/22/22	20:10	SAV	IC6	1	B154372	No Prep

DCN = Data Continuation Number

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Reported: 11/30/2022 9:58
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2226382-05	Client Sample Name: JPL, DUP-7-4Q22, 10/31/2022 8:45:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00037	mg/L	0.00020	0.000020	EPA-218.6	0.000025	S05	1
Total Recoverable Chromium	2.4	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	11/15/22 15:00	11/16/22 16:30		KSA	IC-4	1	B154006	No Prep
2	EPA-200.8	11/14/22 20:20	11/15/22 15:25		ARD	PE-EL4	1	B153833	EPA 200.2

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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226382-06	Client Sample Name: NASA/JPL, MW-4-2, 10/31/2022 9:30:00AM, 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.59	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2226382-06	Client Sample Name:	NASA/JPL, MW-4-2, 10/31/2022 9:30:00AM, 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	0.23	ug/L	0.50	0.23	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	0.29	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	V11	1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226382-06	Client Sample Name: NASA/JPL, MW-4-2, 10/31/2022 9:30:00AM, 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		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)	95.7	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.9	%	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	11/08/22 08:00	11/08/22 15:09	RCC	MS-V5	1	B153223	EPA 524.2

DCN = Data Continuation Number

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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2226382-06	Client Sample Name: NASA/JPL, MW-4-2, 10/31/2022 9:30:00AM, 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	11/08/22 08:00	11/08/22	15:09	RCC	MS-V5	1	B153223	EPA 524.2

DCN = Data Continuation Number



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Reported: 11/30/2022 9:58
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2226382-06	Client Sample Name: NASA/JPL, MW-4-2, 10/31/2022 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	36	ug/L	10	4.0	EPA-314.0	ND	A10	1

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-314.0	11/22/22 08:00	11/23/22	11:43	SAV	IC6	5	B154372	No Prep

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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2226382-06	Client Sample Name: NASA/JPL, MW-4-2, 10/31/2022 9:30:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.000085	mg/L	0.00020	0.000020	EPA-218.6	0.000025	J,S05	1
Total Recoverable Chromium	0.53	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	11/15/22 15:00	11/16/22 16:59		KSA	IC-4	1	B154006	No Prep
2	EPA-200.8	11/14/22 20:20	11/15/22 15:27		ARD	PE-EL4	1	B153833	EPA 200.2

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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226382-07	Client Sample Name: NASA/JPL, MW-12-5, 10/31/2022 10:50:00AM, 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.17	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: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226382-07	Client Sample Name: NASA/JPL, MW-12-5, 10/31/2022 10:50:00AM, 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	V11	1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226382-07	Client Sample Name: NASA/JPL, MW-12-5, 10/31/2022 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		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)	97.3	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	89.2	%	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	11/08/22 08:00	11/08/22 15:33	RCC	MS-V5	1	B153223	EPA 524.2

DCN = Data Continuation Number



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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2226382-07	Client Sample Name: NASA/JPL, MW-12-5, 10/31/2022 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	11/08/22 08:00	11/08/22	15:33	RCC	MS-V5	1	B153223	EPA 524.2

DCN = Data Continuation Number



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Reported: 11/30/2022 9:58
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2226382-07	Client Sample Name: NASA/JPL, MW-12-5, 10/31/2022 10:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	1.5	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	11/22/22 08:00	11/22/22	20:40	SAV	IC6	1	B154372	No Prep

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Reported: 11/30/2022 9:58
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2226382-07	Client Sample Name: NASA/JPL, MW-12-5, 10/31/2022 10:50:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.0011	mg/L	0.00020	0.000020	EPA-218.6	0.000025	S05	1
Total Recoverable Chromium	1.1	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	11/15/22	15:00	11/16/22	17:09	KSA	IC-4	1	B154006	No Prep
2	EPA-200.8	11/14/22	20:20	11/15/22	15:29	ARD	PE-EL4	1	B153833	EPA 200.2

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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2226382-08	Client Sample Name:	NASA/JPL, MW-12-4, 10/31/2022 11:25:00AM, 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	V11	1	
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chloroform	0.28	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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Tidewater Inc. - Powell
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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2226382-08	Client Sample Name:	NASA/JPL, MW-12-4, 10/31/2022 11:25:00AM, 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	V11	1	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1	

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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226382-08	Client Sample Name: NASA/JPL, MW-12-4, 10/31/2022 11:25:00AM, 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		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)	97.3	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	89.1	%	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	11/08/22 08:00	11/08/22 15:57	RCC	MS-V5	1	B153223	EPA 524.2

DCN = Data Continuation Number



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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2226382-08	Client Sample Name: NASA/JPL, MW-12-4, 10/31/2022 11:25:00AM, 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	11/08/22 08:00	11/08/22	15:57	RCC	MS-V5	1	B153223	EPA 524.2

DCN = Data Continuation Number



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Reported: 11/30/2022 9:58
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2226382-08	Client Sample Name: NASA/JPL, MW-12-4, 10/31/2022 11:25:00AM, Blaine Tech
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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		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-314.0	11/22/22 08:00	11/22/22	20:56	SAV	IC6	1	B154372	No Prep

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Reported: 11/30/2022 9:58
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2226382-08	Client Sample Name: NASA/JPL, MW-12-4, 10/31/2022 11:25:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00059	mg/L	0.00020	0.000020	EPA-218.6	0.000025	S05	1
Total Recoverable Chromium	0.52	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	11/15/22 15:00	11/16/22 17:18		KSA	IC-4	1	B154006	No Prep
2	EPA-200.8	11/14/22 20:20	11/15/22 15:31		ARD	PE-EL4	1	B153833	EPA 200.2

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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2226382-09							
Client Sample Name:	NASA/JPL, MW-12-3, 10/31/2022 12:10:00PM, 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.58	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: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2226382-09	Client Sample Name:	NASA/JPL, MW-12-3, 10/31/2022 12:10:00PM, 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	V11	1	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1	

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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226382-09	Client Sample Name: NASA/JPL, MW-12-3, 10/31/2022 12:10:00PM, 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		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)	98.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	86.6	%	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	11/08/22 08:00	11/08/22 16:21	RCC	MS-V5	1	B153223	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2226382-09	Client Sample Name: NASA/JPL, MW-12-3, 10/31/2022 12:10:00PM, 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	11/08/22 08:00	11/08/22	16:21	RCC	MS-V5	1	B153223	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 11/30/2022 9:58
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2226382-09	Client Sample Name: NASA/JPL, MW-12-3, 10/31/2022 12:10:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	1.7	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	11/22/22 08:00	11/22/22	21:11	SAV	IC6	1	B154372	No Prep

DCN = Data Continuation Number

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Reported: 11/30/2022 9:58
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2226382-09	Client Sample Name: NASA/JPL, MW-12-3, 10/31/2022 12:10:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00028	mg/L	0.00020	0.000020	EPA-218.6	0.000025	S05	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	11/15/22 15:00	11/16/22 17:28		KSA	IC-4	1	B154006	No Prep
2	EPA-200.8	11/14/22 20:20	11/15/22 15:33		ARD	PE-EL4	1	B153833	EPA 200.2

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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226382-10 **Client Sample Name:** NASA/JPL, MW-12-2, 10/31/2022 12:45:00PM, 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2226382-10	Client Sample Name:	NASA/JPL, MW-12-2, 10/31/2022 12:45:00PM, 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	V11	1	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1	

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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226382-10	Client Sample Name: NASA/JPL, MW-12-2, 10/31/2022 12:45:00PM, 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		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)	97.3	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	86.6	%	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	11/08/22 08:00	11/08/22 16:45	RCC	MS-V5	1	B153223	EPA 524.2

DCN = Data Continuation Number



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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2226382-10	Client Sample Name: NASA/JPL, MW-12-2, 10/31/2022 12:45:00PM, 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	11/08/22 08:00	11/08/22	16:45	RCC	MS-V5	1	B153223	EPA 524.2

DCN = Data Continuation Number



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Reported: 11/30/2022 9:58
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2226382-10	Client Sample Name: NASA/JPL, MW-12-2, 10/31/2022 12:45:00PM, 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	11/23/22 14:00	11/23/22	18:44	KSA	IC6	1	B154631	No Prep

DCN = Data Continuation Number

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Reported: 11/30/2022 9:58
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2226382-10	Client Sample Name: NASA/JPL, MW-12-2, 10/31/2022 12:45:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00020	mg/L	0.00020	0.000020	EPA-218.6	0.000025	S05	1
Total Recoverable Chromium	1.5	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	11/15/22 15:00	11/16/22 17:57		KSA	IC-4	1	B154006	No Prep
2	EPA-200.8	11/14/22 20:20	11/15/22 15:35		ARD	PE-EL4	1	B153833	EPA 200.2

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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226382-11 **Client Sample Name:** JPL, EB-6-103122, 10/31/2022 1:00:00PM, 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	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226382-11 **Client Sample Name:** JPL, EB-6-103122, 10/31/2022 1:00:00PM, 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	V11	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: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226382-11	Client Sample Name: JPL, EB-6-103122, 10/31/2022 1:00:00PM, 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		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)	99.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.0	%	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	11/08/22 08:00	11/08/22 17:09	RCC	MS-V5	1	B153223	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2226382-11	Client Sample Name: JPL, EB-6-103122, 10/31/2022 1:00:00PM, 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	11/08/22 08:00	11/08/22	17:09	RCC	MS-V5	1	B153223	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 11/30/2022 9:58
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2226382-11	Client Sample Name: JPL, EB-6-103122, 10/31/2022 1:00:00PM, 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	11/23/22 14:00	11/23/22	17:42	KSA	IC6	1	B154631	No Prep

DCN = Data Continuation Number

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Reported: 11/30/2022 9:58
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2226382-11	Client Sample Name: JPL, EB-6-103122, 10/31/2022 1:00:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00011	mg/L	0.00020	0.000020	EPA-218.6	0.000025	J,S05	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	11/15/22 15:00	11/16/22 18:06		KSA	IC-4	1	B154006	No Prep
2	EPA-200.8	11/14/22 20:20	11/15/22 15:37		ARD	PE-EL4	1	B153833	EPA 200.2

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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 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	Run #
QC Batch ID: B153223							
Benzene	B153223-BLK1	ND	ug/L	0.50	0.11		1
Bromobenzene	B153223-BLK1	ND	ug/L	0.50	0.15		1
Bromochloromethane	B153223-BLK1	ND	ug/L	0.50	0.27		1
Bromodichloromethane	B153223-BLK1	ND	ug/L	0.50	0.20		1
Bromoform	B153223-BLK1	ND	ug/L	0.50	0.46		1
Bromomethane	B153223-BLK1	ND	ug/L	0.50	0.20		1
n-Butylbenzene	B153223-BLK1	ND	ug/L	0.50	0.15		1
sec-Butylbenzene	B153223-BLK1	ND	ug/L	0.50	0.13		1
tert-Butylbenzene	B153223-BLK1	ND	ug/L	0.50	0.18		1
Carbon tetrachloride	B153223-BLK1	ND	ug/L	0.50	0.17		1
Chlorobenzene	B153223-BLK1	ND	ug/L	0.50	0.14		1
Chloroethane	B153223-BLK1	ND	ug/L	0.50	0.17		1
Chloroform	B153223-BLK1	ND	ug/L	0.50	0.14		1
Chloromethane	B153223-BLK1	ND	ug/L	0.50	0.11		1
2-Chlorotoluene	B153223-BLK1	ND	ug/L	0.50	0.14		1
4-Chlorotoluene	B153223-BLK1	ND	ug/L	0.50	0.093		1
Dibromochloromethane	B153223-BLK1	ND	ug/L	0.50	0.22		1
1,2-Dibromo-3-chloropropane	B153223-BLK1	ND	ug/L	1.0	0.89		1
1,2-Dibromoethane	B153223-BLK1	ND	ug/L	0.50	0.22		1
Dibromomethane	B153223-BLK1	ND	ug/L	0.50	0.23		1
1,2-Dichlorobenzene	B153223-BLK1	ND	ug/L	0.50	0.21		1
1,3-Dichlorobenzene	B153223-BLK1	ND	ug/L	0.50	0.16		1
1,4-Dichlorobenzene	B153223-BLK1	ND	ug/L	0.50	0.15		1
Dichlorodifluoromethane	B153223-BLK1	ND	ug/L	0.50	0.15		1
1,1-Dichloroethane	B153223-BLK1	ND	ug/L	0.50	0.15		1
1,2-Dichloroethane	B153223-BLK1	ND	ug/L	0.50	0.17		1
1,1-Dichloroethene	B153223-BLK1	ND	ug/L	0.50	0.27		1
cis-1,2-Dichloroethene	B153223-BLK1	ND	ug/L	0.50	0.27		1
trans-1,2-Dichloroethene	B153223-BLK1	ND	ug/L	0.50	0.17		1
1,2-Dichloropropane	B153223-BLK1	ND	ug/L	0.50	0.15		1
1,3-Dichloropropane	B153223-BLK1	ND	ug/L	0.50	0.13		1
2,2-Dichloropropane	B153223-BLK1	ND	ug/L	0.50	0.18		1
1,1-Dichloropropene	B153223-BLK1	ND	ug/L	0.50	0.19		1
cis-1,3-Dichloropropene	B153223-BLK1	ND	ug/L	0.50	0.14		1

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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 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	Run #
QC Batch ID: B153223							
trans-1,3-Dichloropropene	B153223-BLK1	ND	ug/L	0.50	0.13		1
Ethylbenzene	B153223-BLK1	ND	ug/L	0.50	0.15		1
Hexachlorobutadiene	B153223-BLK1	ND	ug/L	0.50	0.20		1
Isopropylbenzene	B153223-BLK1	ND	ug/L	0.50	0.14		1
p-Isopropyltoluene	B153223-BLK1	ND	ug/L	0.50	0.14		1
Methylene chloride	B153223-BLK1	ND	ug/L	0.50	0.21		1
Methyl t-butyl ether	B153223-BLK1	ND	ug/L	0.50	0.14		1
Naphthalene	B153223-BLK1	ND	ug/L	0.50	0.16		1
n-Propylbenzene	B153223-BLK1	ND	ug/L	0.50	0.12		1
Styrene	B153223-BLK1	ND	ug/L	0.50	0.12		1
1,1,1,2-Tetrachloroethane	B153223-BLK1	ND	ug/L	0.50	0.21		1
1,1,1,2,2-Tetrachloroethane	B153223-BLK1	ND	ug/L	0.50	0.17		1
Tetrachloroethene	B153223-BLK1	ND	ug/L	0.50	0.23		1
Toluene	B153223-BLK1	ND	ug/L	0.50	0.17		1
1,2,3-Trichlorobenzene	B153223-BLK1	ND	ug/L	0.50	0.19		1
1,2,4-Trichlorobenzene	B153223-BLK1	ND	ug/L	0.50	0.15		1
1,1,1-Trichloroethane	B153223-BLK1	ND	ug/L	0.50	0.21		1
1,1,2-Trichloroethane	B153223-BLK1	ND	ug/L	0.50	0.21		1
Trichloroethene	B153223-BLK1	ND	ug/L	0.50	0.19		1
Trichlorofluoromethane	B153223-BLK1	ND	ug/L	0.50	0.14		1
1,2,3-Trichloropropane	B153223-BLK1	ND	ug/L	1.0	0.78		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B153223-BLK1	ND	ug/L	0.50	0.19		1
1,2,4-Trimethylbenzene	B153223-BLK1	ND	ug/L	0.50	0.17		1
1,3,5-Trimethylbenzene	B153223-BLK1	ND	ug/L	0.50	0.14		1
Vinyl chloride	B153223-BLK1	ND	ug/L	0.50	0.18		1
Acetone	B153223-BLK1	ND	ug/L	10	6.6		1
Acrylonitrile	B153223-BLK1	ND	ug/L	5.0	1.5		1
Allyl chloride	B153223-BLK1	ND	ug/L	5.0	0.47		1
t-Amyl Methyl ether	B153223-BLK1	ND	ug/L	0.50	0.19		1
t-Butyl alcohol	B153223-BLK1	ND	ug/L	2.0	2.0		1
Carbon disulfide	B153223-BLK1	ND	ug/L	0.50	0.48		1
trans-1,4-Dichloro-2-butene	B153223-BLK1	ND	ug/L	5.0	1.8		1
Diethyl ether	B153223-BLK1	ND	ug/L	2.0	0.33		1
Ethyl methacrylate	B153223-BLK1	ND	ug/L	4.0	1.3		1

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 3761 Attucks Drive
 Powell, OH 43065

Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 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	Run #
QC Batch ID: B153223							
Ethyl t-butyl ether	B153223-BLK1	ND	ug/L	0.50	0.32		1
Hexachloroethane	B153223-BLK1	ND	ug/L	0.50	0.11		1
2-Hexanone	B153223-BLK1	ND	ug/L	10	5.0		1
Methacrylonitrile	B153223-BLK1	ND	ug/L	10	2.3		1
Methyl ethyl ketone	B153223-BLK1	ND	ug/L	5.0	3.3		1
Methyl iodide	B153223-BLK1	ND	ug/L	2.0	1.1		1
Methyl isobutyl ketone	B153223-BLK1	ND	ug/L	5.0	2.4		1
Methyl methacrylate	B153223-BLK1	ND	ug/L	5.0	1.2		1
Pentachloroethane	B153223-BLK1	ND	ug/L	2.0	0.63		1
Propionitrile	B153223-BLK1	ND	ug/L	20	6.2		1
Tetrahydrofuran	B153223-BLK1	ND	ug/L	20	5.2		1
p- & m-Xylenes	B153223-BLK1	ND	ug/L	0.50	0.34		1
o-Xylene	B153223-BLK1	ND	ug/L	0.50	0.13		1
1,2-Dichloroethane-d4 (Surrogate)	B153223-BLK1	98.8	%	75 - 125 (LCL - UCL)			1
Toluene-d8 (Surrogate)	B153223-BLK1	97.3	%	80 - 120 (LCL - UCL)			1
4-Bromofluorobenzene (Surrogate)	B153223-BLK1	89.0	%	80 - 120 (LCL - UCL)			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B153223-BLK1	PB	EPA-524.2	11/08/22	11/08/22 11:57	RCC	MS-V5	1

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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 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	Run #
								Percent Recovery	RPD		
QC Batch ID: B153223											
Benzene	B153223-BS1	LCS	23.170	25.000	ug/L	92.7		70 - 130			1
Bromodichloromethane	B153223-BS1	LCS	25.810	25.000	ug/L	103		70 - 130			1
Chlorobenzene	B153223-BS1	LCS	24.890	25.000	ug/L	99.6		70 - 130			1
Chloroethane	B153223-BS1	LCS	22.650	25.000	ug/L	90.6		70 - 130			1
1,4-Dichlorobenzene	B153223-BS1	LCS	26.120	25.000	ug/L	104		70 - 130			1
1,1-Dichloroethane	B153223-BS1	LCS	23.820	25.000	ug/L	95.3		70 - 130			1
1,1-Dichloroethene	B153223-BS1	LCS	23.710	25.000	ug/L	94.8		70 - 130			1
Toluene	B153223-BS1	LCS	24.640	25.000	ug/L	98.6		70 - 130			1
Trichloroethene	B153223-BS1	LCS	24.940	25.000	ug/L	99.8		70 - 130			1
1,2-Dichloroethane-d4 (Surrogate)	B153223-BS1	LCS	9.2600	10.000	ug/L	92.6		75 - 125			1
Toluene-d8 (Surrogate)	B153223-BS1	LCS	10.140	10.000	ug/L	101		80 - 120			1
4-Bromofluorobenzene (Surrogate)	B153223-BS1	LCS	9.7400	10.000	ug/L	97.4		80 - 120			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B153223-BS1	LCS	EPA-524.2	11/08/22	11/08/22	12:45	RCC	MS-V5	1

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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 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	R#
									RPD	Percent Recovery		
QC Batch ID: B153223		Used client sample: Y - Description: DUP-7-4Q22, 10/31/2022 08:45										
Benzene	MS	2226382-05	ND	23.340	25.000	ug/L		93.4		70 - 130		1
	MSD	2226382-05	ND	22.630	25.000	ug/L	3.1	90.5	20	70 - 130		2
Bromodichloromethane	MS	2226382-05	ND	26.640	25.000	ug/L		107		70 - 130		1
	MSD	2226382-05	ND	24.610	25.000	ug/L	7.9	98.4	20	70 - 130		2
Chlorobenzene	MS	2226382-05	ND	25.230	25.000	ug/L		101		70 - 130		1
	MSD	2226382-05	ND	24.410	25.000	ug/L	3.3	97.6	20	70 - 130		2
Chloroethane	MS	2226382-05	ND	23.310	25.000	ug/L		93.2		70 - 130		1
	MSD	2226382-05	ND	22.710	25.000	ug/L	2.6	90.8	20	70 - 130		2
1,4-Dichlorobenzene	MS	2226382-05	ND	26.110	25.000	ug/L		104		70 - 130		1
	MSD	2226382-05	ND	25.510	25.000	ug/L	2.3	102	20	70 - 130		2
1,1-Dichloroethane	MS	2226382-05	ND	24.050	25.000	ug/L		96.2		70 - 130		1
	MSD	2226382-05	ND	23.020	25.000	ug/L	4.4	92.1	20	70 - 130		2
1,1-Dichloroethene	MS	2226382-05	ND	24.240	25.000	ug/L		97.0		70 - 130		1
	MSD	2226382-05	ND	23.020	25.000	ug/L	5.2	92.1	20	70 - 130		2
Toluene	MS	2226382-05	ND	24.700	25.000	ug/L		98.8		70 - 130		1
	MSD	2226382-05	ND	23.010	25.000	ug/L	7.1	92.0	20	70 - 130		2
Trichloroethene	MS	2226382-05	ND	25.490	25.000	ug/L		102		70 - 130		1
	MSD	2226382-05	ND	23.290	25.000	ug/L	9.0	93.2	20	70 - 130		2
1,2-Dichloroethane-d4 (Surrogate)	MS	2226382-05	ND	9.6200	10.000	ug/L		96.2		75 - 125		1
	MSD	2226382-05	ND	9.6100	10.000	ug/L	0.1	96.1		75 - 125		2
Toluene-d8 (Surrogate)	MS	2226382-05	ND	10.140	10.000	ug/L		101		80 - 120		1
	MSD	2226382-05	ND	9.9500	10.000	ug/L	1.9	99.5		80 - 120		2
4-Bromofluorobenzene (Surrogate)	MS	2226382-05	ND	9.4900	10.000	ug/L		94.9		80 - 120		1
	MSD	2226382-05	ND	9.8000	10.000	ug/L	3.2	98.0		80 - 120		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B153223-MS1	MS	EPA-524.2	11/08/22	11/08/22 13:09	RCC	MS-V5	1
2	B153223-MSD1	MSD	EPA-524.2	11/08/22	11/08/22 13:33	RCC	MS-V5	1

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 Powell, OH 43065

Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 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	Run #
QC Batch ID: B153223							
Nitrobenzene	B153223-BLK1	0	ug/L				1
Methyl acrylate	B153223-BLK1	0	ug/L				1
Chloroacetonitrile	B153223-BLK1	0	ug/L				1
2-Nitropropane	B153223-BLK1	0	ug/L				1
1-Chlorobutane	B153223-BLK1	0	ug/L				1
1,1-Dichloropropanone	B153223-BLK1	0	ug/L				1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B153223-BLK1	PB	EPA-524.2	11/08/22	11/08/22 11:57	RCC	MS-V5	1

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

Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 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	Run #
-------------	--------------	-----------	-------	-----	-----	-----------	-------

QC Batch ID: B154372

Perchlorate	B154372-BLK1	ND	ug/L	2.0	0.81		1
-------------	--------------	----	------	-----	------	--	---

QC Batch ID: B154631

Perchlorate	B154631-BLK1	ND	ug/L	2.0	0.81		2
-------------	--------------	----	------	-----	------	--	---

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B154372-BLK1	PB	EPA-314.0	11/22/22	11/22/22 14:01	SAV	IC6	1
2	B154631-BLK1	PB	EPA-314.0	11/23/22	11/23/22 15:31	KSA	IC6	1

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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 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	Run #
								Percent Recovery	RPD		
QC Batch ID: B154372											
Perchlorate	B154372-BS1	LCS	10.547	10.000	ug/L	105		85 - 115			1

QC Batch ID: B154631											
Perchlorate	B154631-BS1	LCS	10.482	10.000	ug/L	105		85 - 115			2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B154372-BS1	LCS	EPA-314.0	11/22/22	11/22/22 14:17	SAV	IC6	1
2	B154631-BS1	LCS	EPA-314.0	11/23/22	11/24/22 18:49	KSA	IC6	1

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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Source Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab	R#
									RPD	Percent Recovery		
QC Batch ID: B154372		Used client sample: N										
Perchlorate	DUP	2226304-02	3.0092	3.2671		ug/L	8.2		15			1
	MS	2226304-02	3.0092	13.752	10.101	ug/L		106		80 - 120		2
	MSD	2226304-02	3.0092	13.754	10.101	ug/L	0.0	106	15	80 - 120		3

QC Batch ID: B154631		Used client sample: Y - Description: EB-6-103122, 10/31/2022 13:00										
Perchlorate	DUP	2226382-11	ND	ND		ug/L			15			4
	MS	2226382-11	ND	10.974	10.101	ug/L		109		80 - 120		5
	MSD	2226382-11	ND	10.238	10.101	ug/L	6.9	101	15	80 - 120		6

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B154372-DUP1	DUP	EPA-314.0	11/22/22	11/23/22	08:54	SAV	IC6	1
2	B154372-MS1	MS	EPA-314.0	11/22/22	11/23/22	09:09	SAV	IC6	1.010
3	B154372-MSD1	MSD	EPA-314.0	11/22/22	11/23/22	09:24	SAV	IC6	1.010
4	B154631-DUP1	DUP	EPA-314.0	11/23/22	11/23/22	17:58	KSA	IC6	1
5	B154631-MS1	MS	EPA-314.0	11/23/22	11/23/22	18:13	KSA	IC6	1.010
6	B154631-MSD1	MSD	EPA-314.0	11/23/22	11/23/22	18:28	KSA	IC6	1.010

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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
-------------	--------------	-----------	-------	-----	-----	-----------	-------

QC Batch ID: B153833							
Total Recoverable Chromium	B153833-BLK1	ND	ug/L	3.0	0.50		1

QC Batch ID: B154006							
Hexavalent Chromium	B154006-BLK1	0.000025000	mg/L	0.00020	0.000020	J	2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B153833-BLK1	PB	EPA-200.8	11/14/22	11/15/22	15:01	ARD	PE-EL4	1
2	B154006-BLK1	PB	EPA-218.6	11/15/22	11/16/22	16:49	KSA	IC-4	1

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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 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	Run #
								Percent Recovery	RPD		
QC Batch ID: B153833											
Total Recoverable Chromium	B153833-BS1	LCS	41.132	40.000	ug/L	103		85 - 115			1

QC Batch ID: B154006											
Hexavalent Chromium	B154006-BS1	LCS	0.019327	0.020000	mg/L	96.6		90 - 110			2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B153833-BS1	LCS	EPA-200.8	11/14/22	11/15/22 15:08	ARD	PE-EL4	1
2	B154006-BS1	LCS	EPA-218.6	11/15/22	11/16/22 16:40	KSA	IC-4	1

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Reported: 11/30/2022 9:58
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: [none]
 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	R#
									RPD	Percent Recovery		
QC Batch ID: B153833		Used client sample: Y - Description: MW-4-5, 10/31/2022 07:45										
Total Recoverable Chromium	DUP	2226382-02	1.2250	1.4080		ug/L	13.9		20		J	1
	MS	2226382-02	1.2250	42.360	40.000	ug/L		103		70 - 130		2
	MSD	2226382-02	1.2250	40.062	40.000	ug/L	5.6	97.1	20	70 - 130		3

QC Batch ID: B154006		Used client sample: Y - Description: EB-6-103122, 10/31/2022 13:00										
Hexavalent Chromium	DUP	2226382-11	0.00010900	0.000099000		mg/L	9.6		10		J	4
	MS	2226382-11	0.00010900	0.019609	0.020202	mg/L		96.5		90 - 110		5
	MSD	2226382-11	0.00010900	0.019973	0.020202	mg/L	1.8	98.3	10	90 - 110		6

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B153833-DUP1	DUP	EPA-200.8	11/14/22	11/15/22	15:04	ARD	PE-EL4	1
2	B153833-MS1	MS	EPA-200.8	11/14/22	11/15/22	15:10	ARD	PE-EL4	1
3	B153833-MSD1	MSD	EPA-200.8	11/14/22	11/15/22	15:12	ARD	PE-EL4	1
4	B154006-DUP1	DUP	EPA-218.6	11/15/22	11/16/22	18:16	KSA	IC-4	1
5	B154006-MS1	MS	EPA-218.6	11/15/22	11/16/22	18:25	KSA	IC-4	1.010
6	B154006-MSD1	MSD	EPA-218.6	11/15/22	11/16/22	18:35	KSA	IC-4	1.010

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

Reported: 11/30/2022 9:58
Project: JPL- GW Monitoring Wells-CLP
Project Number: [none]
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.
- S05 The sample holding time was exceeded.
- V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.



Date of Report: 12/13/2022

David Conner

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

Client Project: 4Q22
BCL Project: JPL- GW Monitoring Wells-CLP
BCL Work Order: 2226756
Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 11/3/2022. 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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BC Laboratories, Inc.

Report To: Tidewater, Inc.
Client: David Conner
Street Address: 3761 Attucks Drive
City: Powell State: OH Zip: 43065
Phone: 614-298-5715 Fax: 614-792-2897
Email: david.conner@btiden20.net

Chain of Custody Form

Project Description: JPL-GW Monitoring
Project Code: 4022
Sampler(s): Blaine Tech

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

WDD 11-3-22
2A 10f1

Page 1 of 1

Sample #	Sample Description	Date	Time	Matrix*	Analysis Requested	Notes
-1	TR-9-110322	11/03/22	0700	W	VOCs EPA 524.2 TRM: Cr Perchlorate Hexavalent Cr 6 -218.6 (mg/L) Cl, NO3, NO2, SO4 Orthophosphate 365.1	MS/MSD
-2	MW-15	↓	0915	W		MS/MSD
-3	MW-1	↓	1155	W		MS/MSD
-4	MW-9	↓	1315	W		MS/MSD
						Laboratory, please select 2 SDs for Level IV validation

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 Notified on C of C
NOTE: ALL ANALYSIS REQUIRED TO HAVE CALIBRATION SUMMARIES (Inform GC)

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

Cost Center:

1. Relinquished By: Eddie Alvarez Date: 11-3-22 Time: 13:40
2. Relinquished By: Wajid Sneath Date: 11-3-22 Time: 17:40
3. Relinquished By: _____ Date: _____ Time: _____

Global ID:

1. Received By: Sarah White Date: 11-3-22 Time: 15:40
2. Received By: _____ Date: _____ Time: _____
3. Received By: _____ Date: _____ Time: _____

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>22-26756</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 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>0.95</u> Container: <u>PE</u> Thermometer ID: <u>274</u>		Date/Time <u>11-9-22 1832</u>								
		Temperature: (A) <u>3.0</u> °C / (C) <u>3.0</u> °C		Analyst Init <u>JSC</u>								
SAMPLE CONTAINERS			SAMPLE NUMBERS									
			1	2	3	4	5	6	7	8	9	10
QT PE UNPRES												
4oz / 8oz / (6oz) PE UNPRES												
2oz Cr ⁶⁺ <u>402</u>												
QT INORGANIC CHEMICAL METALS												
INORGANIC CHEMICAL METALS 4oz / 8oz (16oz)												
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			<u>A</u>									
40ml VOA VIAL <u>HCL</u>				<u>A-F</u>	<u>A-F</u>	<u>A-F</u>						
QT EPA 1664B												
PT ODOR												
RADIOLOGICAL												
BACTERIOLOGICAL												
40 ml VOA VIAL - 504												
QT EPA 508/508.3/8081A												
QT EPA 515.1/8151A												
QT EPA 525.2												
QT EPA 525.2 TRAVEL BLANK												
40ml EPA 547												
40ml EPA 531.1												
5oz EPA 548.1												
QT EPA 549.2												
QT EPA 5015M												
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: 702 Date/Time: 11/8/22 1832
 A = Actual / C = Corrected



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

Reported: 12/13/2022 9:29
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information					
2226756-01	COC Number:	---	Receive Date:	11/03/2022 18:30		
	Project Number:	NASA/JPL	Sampling Date:	11/03/2022 07:00		
	Sampling Location:	---	Sample Depth:	---		
	Sampling Point:	TB-9-110322	Lab Matrix:	Water		
	Sampled By:	BTST	Sample Type:	Water		
			Delivery Work Order:			
			Global ID:	0000000000		
			Location ID (FieldPoint):	TB-9		
			Matrix:	W		
			Sample QC Type (SACode):	CS		
		Cooler ID:				
2226756-02	COC Number:	---	Receive Date:	11/03/2022 18:30		
	Project Number:	NASA/JPL	Sampling Date:	11/03/2022 09:35		
	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:	W		
			Sample QC Type (SACode):	CS		
		Cooler ID:				
2226756-03	COC Number:	---	Receive Date:	11/03/2022 18:30		
	Project Number:	NASA/JPL	Sampling Date:	11/03/2022 11:55		
	Sampling Location:	---	Sample Depth:	---		
	Sampling Point:	MW-1	Lab Matrix:	Water		
	Sampled By:	BTST	Sample Type:	Water		
			Delivery Work Order:			
			Global ID:	0000000000		
			Location ID (FieldPoint):	MW-1		
			Matrix:	W		
			Sample QC Type (SACode):	CS		
		Cooler ID:				

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Powell, OH 43065

Reported: 12/13/2022 9:29
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2226756-04	COC Number: ---	Receive Date: 11/03/2022 18:30
	Project Number: NASA/JPL	Sampling Date: 11/03/2022 13:15
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-9	Lab Matrix: Water
	Sampled By: BTST	Sample Type: Water
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-9
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

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

Reported: 12/13/2022 9:29
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226756-01	Client Sample Name: NASA/JPL, TB-9-110322, 11/3/2022 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 12/13/2022 9:29
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2226756-01	Client Sample Name:	NASA/JPL, TB-9-110322, 11/3/2022 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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Reported: 12/13/2022 9:29
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226756-01	Client Sample Name: NASA/JPL, TB-9-110322, 11/3/2022 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	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)	92.2	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.9	%	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	11/09/22 07:53	11/09/22 19:07	RCC	MS-V5	1	B153440	EPA 524.2

DCN = Data Continuation Number



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Reported: 12/13/2022 9:29
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2226756-01	Client Sample Name: NASA/JPL, TB-9-110322, 11/3/2022 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		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	11/09/22 07:53	11/09/22	19:07	RCC	MS-V5	1	B153440	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 12/13/2022 9:29
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2226756-02	Client Sample Name:	NASA/JPL, MW-15, 11/3/2022 9:35:00AM						
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	V11	1	
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1	
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1	
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1	
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	

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Reported: 12/13/2022 9:29
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2226756-02	Client Sample Name:	NASA/JPL, MW-15, 11/3/2022 9:35:00AM					
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: 12/13/2022 9:29
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226756-02	Client Sample Name: NASA/JPL, MW-15, 11/3/2022 9:35:00AM
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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)	91.7	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.0	%	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	11/09/22 07:53	11/09/22 16:43	RCC	MS-V5	1	B153440	EPA 524.2

DCN = Data Continuation Number



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Reported: 12/13/2022 9:29
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2226756-02	Client Sample Name: NASA/JPL, MW-15, 11/3/2022 9:35:00AM
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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	11/09/22 07:53	11/09/22	16:43	RCC	MS-V5	1	B153440	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 12/13/2022 9:29
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2226756-02	Client Sample Name: NASA/JPL, MW-15, 11/3/2022 9:35:00AM
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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	S05	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	12/09/22 17:00	12/10/22 02:52	SAV	IC6	1	B155711	No Prep

DCN = Data Continuation Number

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Reported: 12/13/2022 9:29
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2226756-02	Client Sample Name: NASA/JPL, MW-15, 11/3/2022 9:35:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00026	mg/L	0.00020	0.000020	EPA-218.6	0.000026		1
Total Recoverable Chromium	18	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	11/15/22	15:00	11/15/22	17:17	KSA	IC-4	1	B153959	No Prep
2	EPA-200.8	11/15/22	22:40	11/16/22	12:20	KHS	PE-EL4	1	B153922	EPA 200.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 12/13/2022 9:29
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226756-03	Client Sample Name: NASA/JPL, MW-1, 11/3/2022 11:55:00AM
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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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 12/13/2022 9:29
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226756-03		Client Sample Name: NASA/JPL, MW-1, 11/3/2022 11:55:00AM						
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: 12/13/2022 9:29
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226756-03	Client Sample Name: NASA/JPL, MW-1, 11/3/2022 11:55:00AM
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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)	90.7	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.9	%	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	11/09/22 07:53	11/09/22 19:31	RCC	MS-V5	1	B153440	EPA 524.2

DCN = Data Continuation Number



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Reported: 12/13/2022 9:29
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2226756-03	Client Sample Name: NASA/JPL, MW-1, 11/3/2022 11:55:00AM
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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	11/09/22 07:53	11/09/22	19:31	RCC	MS-V5	1	B153440	EPA 524.2

DCN = Data Continuation Number



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Reported: 12/13/2022 9:29
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2226756-03	Client Sample Name: NASA/JPL, MW-1, 11/3/2022 11:55:00AM
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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	S05	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	12/09/22 17:00	12/10/22 04:54	SAV	IC6	1	B155710	No Prep

DCN = Data Continuation Number

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Reported: 12/13/2022 9:29
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2226756-03	Client Sample Name: NASA/JPL, MW-1, 11/3/2022 11:55:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.000073	mg/L	0.00020	0.000020	EPA-218.6	0.000073	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	11/15/22 15:00	11/15/22 17:55		KSA	IC-4	1	B153960	No Prep
2	EPA-200.8	11/15/22 22:40	11/16/22 13:15		KHS	PE-EL4	1	B153922	EPA 200.2

DCN = Data Continuation Number

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Reported: 12/13/2022 9:29
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2226756-04	Client Sample Name:	NASA/JPL, MW-9, 11/3/2022 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	V11	1	
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1	
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1	
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1	
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	

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Reported: 12/13/2022 9:29
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226756-04	Client Sample Name: NASA/JPL, MW-9, 11/3/2022 1:15:00PM
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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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Reported: 12/13/2022 9:29
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226756-04	Client Sample Name: NASA/JPL, MW-9, 11/3/2022 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)	93.5	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.9	%	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	11/09/22 07:53	11/09/22 19:55	RCC	MS-V5	1	B153440	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 12/13/2022 9:29
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2226756-04	Client Sample Name: NASA/JPL, MW-9, 11/3/2022 1:15:00PM
---------------------------	---

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	11/09/22 07:53	11/09/22	19:55	RCC	MS-V5	1	B153440	EPA 524.2

DCN = Data Continuation Number



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Reported: 12/13/2022 9:29
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2226756-04	Client Sample Name: NASA/JPL, MW-9, 11/3/2022 1:15:00PM
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	ND	ug/L	2.0	0.81	EPA-314.0	ND	S05	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	12/09/22 17:00	12/10/22 06:26	SAV	IC6	1	B155712	No Prep

DCN = Data Continuation Number

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Reported: 12/13/2022 9:29
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2226756-04	Client Sample Name: NASA/JPL, MW-9, 11/3/2022 1:15:00PM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.0015	mg/L	0.00020	0.000020	EPA-218.6	0.000080		1
Total Recoverable Chromium	620	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	11/15/22	15:00	11/15/22	18:14	KSA	IC-4	1	B153961	No Prep
2	EPA-200.8	11/15/22	22:40	11/16/22	13:17	KHS	PE-EL4	1	B153922	EPA 200.2

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 Project Number: 4Q22
 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	Run #
QC Batch ID: B153440							
Benzene	B153440-BLK1	ND	ug/L	0.50	0.11		1
Bromobenzene	B153440-BLK1	ND	ug/L	0.50	0.15		1
Bromochloromethane	B153440-BLK1	ND	ug/L	0.50	0.27		1
Bromodichloromethane	B153440-BLK1	ND	ug/L	0.50	0.20		1
Bromoform	B153440-BLK1	ND	ug/L	0.50	0.46		1
Bromomethane	B153440-BLK1	ND	ug/L	0.50	0.20		1
n-Butylbenzene	B153440-BLK1	ND	ug/L	0.50	0.15		1
sec-Butylbenzene	B153440-BLK1	ND	ug/L	0.50	0.13		1
tert-Butylbenzene	B153440-BLK1	ND	ug/L	0.50	0.18		1
Carbon tetrachloride	B153440-BLK1	ND	ug/L	0.50	0.17		1
Chlorobenzene	B153440-BLK1	ND	ug/L	0.50	0.14		1
Chloroethane	B153440-BLK1	ND	ug/L	0.50	0.17		1
Chloroform	B153440-BLK1	ND	ug/L	0.50	0.14		1
Chloromethane	B153440-BLK1	ND	ug/L	0.50	0.11		1
2-Chlorotoluene	B153440-BLK1	ND	ug/L	0.50	0.14		1
4-Chlorotoluene	B153440-BLK1	ND	ug/L	0.50	0.093		1
Dibromochloromethane	B153440-BLK1	ND	ug/L	0.50	0.22		1
1,2-Dibromo-3-chloropropane	B153440-BLK1	ND	ug/L	1.0	0.89		1
1,2-Dibromoethane	B153440-BLK1	ND	ug/L	0.50	0.22		1
Dibromomethane	B153440-BLK1	ND	ug/L	0.50	0.23		1
1,2-Dichlorobenzene	B153440-BLK1	ND	ug/L	0.50	0.21		1
1,3-Dichlorobenzene	B153440-BLK1	ND	ug/L	0.50	0.16		1
1,4-Dichlorobenzene	B153440-BLK1	ND	ug/L	0.50	0.15		1
Dichlorodifluoromethane	B153440-BLK1	ND	ug/L	0.50	0.15		1
1,1-Dichloroethane	B153440-BLK1	ND	ug/L	0.50	0.15		1
1,2-Dichloroethane	B153440-BLK1	ND	ug/L	0.50	0.17		1
1,1-Dichloroethene	B153440-BLK1	ND	ug/L	0.50	0.27		1
cis-1,2-Dichloroethene	B153440-BLK1	ND	ug/L	0.50	0.27		1
trans-1,2-Dichloroethene	B153440-BLK1	ND	ug/L	0.50	0.17		1
1,2-Dichloropropane	B153440-BLK1	ND	ug/L	0.50	0.15		1
1,3-Dichloropropane	B153440-BLK1	ND	ug/L	0.50	0.13		1
2,2-Dichloropropane	B153440-BLK1	ND	ug/L	0.50	0.18		1
1,1-Dichloropropene	B153440-BLK1	ND	ug/L	0.50	0.19		1
cis-1,3-Dichloropropene	B153440-BLK1	ND	ug/L	0.50	0.14		1

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Reported: 12/13/2022 9:29
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
QC Batch ID: B153440							
trans-1,3-Dichloropropene	B153440-BLK1	ND	ug/L	0.50	0.13		1
Ethylbenzene	B153440-BLK1	ND	ug/L	0.50	0.15		1
Hexachlorobutadiene	B153440-BLK1	ND	ug/L	0.50	0.20		1
Isopropylbenzene	B153440-BLK1	ND	ug/L	0.50	0.14		1
p-Isopropyltoluene	B153440-BLK1	ND	ug/L	0.50	0.14		1
Methylene chloride	B153440-BLK1	ND	ug/L	0.50	0.21		1
Methyl t-butyl ether	B153440-BLK1	ND	ug/L	0.50	0.14		1
Naphthalene	B153440-BLK1	ND	ug/L	0.50	0.16		1
n-Propylbenzene	B153440-BLK1	ND	ug/L	0.50	0.12		1
Styrene	B153440-BLK1	ND	ug/L	0.50	0.12		1
1,1,1,2-Tetrachloroethane	B153440-BLK1	ND	ug/L	0.50	0.21		1
1,1,1,2,2-Tetrachloroethane	B153440-BLK1	ND	ug/L	0.50	0.17		1
Tetrachloroethene	B153440-BLK1	ND	ug/L	0.50	0.23		1
Toluene	B153440-BLK1	ND	ug/L	0.50	0.17		1
1,2,3-Trichlorobenzene	B153440-BLK1	ND	ug/L	0.50	0.19		1
1,2,4-Trichlorobenzene	B153440-BLK1	ND	ug/L	0.50	0.15		1
1,1,1-Trichloroethane	B153440-BLK1	ND	ug/L	0.50	0.21		1
1,1,2-Trichloroethane	B153440-BLK1	ND	ug/L	0.50	0.21		1
Trichloroethene	B153440-BLK1	ND	ug/L	0.50	0.19		1
Trichlorofluoromethane	B153440-BLK1	ND	ug/L	0.50	0.14		1
1,2,3-Trichloropropane	B153440-BLK1	ND	ug/L	1.0	0.78		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B153440-BLK1	ND	ug/L	0.50	0.19		1
1,2,4-Trimethylbenzene	B153440-BLK1	ND	ug/L	0.50	0.17		1
1,3,5-Trimethylbenzene	B153440-BLK1	ND	ug/L	0.50	0.14		1
Vinyl chloride	B153440-BLK1	ND	ug/L	0.50	0.18		1
Acetone	B153440-BLK1	ND	ug/L	10	6.6		1
Acrylonitrile	B153440-BLK1	ND	ug/L	5.0	1.5		1
Allyl chloride	B153440-BLK1	ND	ug/L	5.0	0.47		1
t-Amyl Methyl ether	B153440-BLK1	ND	ug/L	0.50	0.19		1
t-Butyl alcohol	B153440-BLK1	ND	ug/L	2.0	2.0		1
Carbon disulfide	B153440-BLK1	ND	ug/L	0.50	0.48		1
trans-1,4-Dichloro-2-butene	B153440-BLK1	ND	ug/L	5.0	1.8		1
Diethyl ether	B153440-BLK1	ND	ug/L	2.0	0.33		1
Ethyl methacrylate	B153440-BLK1	ND	ug/L	4.0	1.3		1

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Reported: 12/13/2022 9:29
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
QC Batch ID: B153440							
Ethyl t-butyl ether	B153440-BLK1	ND	ug/L	0.50	0.32		1
Hexachloroethane	B153440-BLK1	ND	ug/L	0.50	0.11		1
2-Hexanone	B153440-BLK1	ND	ug/L	10	5.0		1
Methacrylonitrile	B153440-BLK1	ND	ug/L	10	2.3		1
Methyl ethyl ketone	B153440-BLK1	ND	ug/L	5.0	3.3		1
Methyl iodide	B153440-BLK1	ND	ug/L	2.0	1.1		1
Methyl isobutyl ketone	B153440-BLK1	ND	ug/L	5.0	2.4		1
Methyl methacrylate	B153440-BLK1	ND	ug/L	5.0	1.2		1
Pentachloroethane	B153440-BLK1	ND	ug/L	2.0	0.63		1
Propionitrile	B153440-BLK1	ND	ug/L	20	6.2		1
Tetrahydrofuran	B153440-BLK1	ND	ug/L	20	5.2		1
p- & m-Xylenes	B153440-BLK1	ND	ug/L	0.50	0.34		1
o-Xylene	B153440-BLK1	ND	ug/L	0.50	0.13		1
1,2-Dichloroethane-d4 (Surrogate)	B153440-BLK1	93.8	%	75 - 125 (LCL - UCL)			1
Toluene-d8 (Surrogate)	B153440-BLK1	97.6	%	80 - 120 (LCL - UCL)			1
4-Bromofluorobenzene (Surrogate)	B153440-BLK1	91.2	%	80 - 120 (LCL - UCL)			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B153440-BLK1	PB	EPA-524.2	11/09/22	11/09/22 16:19	RCC	MS-V5	1

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 Project Number: 4Q22
 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	Run #
								Percent Recovery	RPD		
QC Batch ID: B153440											
Benzene	B153440-BS1	LCS	22.420	25.000	ug/L	89.7		70 - 130			1
Bromodichloromethane	B153440-BS1	LCS	26.650	25.000	ug/L	107		70 - 130			1
Chlorobenzene	B153440-BS1	LCS	25.860	25.000	ug/L	103		70 - 130			1
Chloroethane	B153440-BS1	LCS	24.210	25.000	ug/L	96.8		70 - 130			1
1,4-Dichlorobenzene	B153440-BS1	LCS	26.640	25.000	ug/L	107		70 - 130			1
1,1-Dichloroethane	B153440-BS1	LCS	22.760	25.000	ug/L	91.0		70 - 130			1
1,1-Dichloroethene	B153440-BS1	LCS	24.780	25.000	ug/L	99.1		70 - 130			1
Toluene	B153440-BS1	LCS	24.070	25.000	ug/L	96.3		70 - 130			1
Trichloroethene	B153440-BS1	LCS	24.430	25.000	ug/L	97.7		70 - 130			1
1,2-Dichloroethane-d4 (Surrogate)	B153440-BS1	LCS	9.2200	10.000	ug/L	92.2		75 - 125			1
Toluene-d8 (Surrogate)	B153440-BS1	LCS	9.9900	10.000	ug/L	99.9		80 - 120			1
4-Bromofluorobenzene (Surrogate)	B153440-BS1	LCS	9.9900	10.000	ug/L	99.9		80 - 120			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B153440-BS1	LCS	EPA-524.2	11/09/22	11/09/22	17:07	RCC	MS-V5	1

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 Project Number: 4Q22
 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	R#
									RPD	Percent Recovery		
QC Batch ID: B153440		Used client sample: Y - Description: MW-15, 11/03/2022 09:35										
Benzene	MS	2226756-02	ND	21.560	25.000	ug/L		86.2		70 - 130		1
	MSD	2226756-02	ND	23.010	25.000	ug/L	6.5	92.0	20	70 - 130		2
Bromodichloromethane	MS	2226756-02	ND	25.240	25.000	ug/L		101		70 - 130		1
	MSD	2226756-02	ND	27.920	25.000	ug/L	10.1	112	20	70 - 130		2
Chlorobenzene	MS	2226756-02	ND	24.420	25.000	ug/L		97.7		70 - 130		1
	MSD	2226756-02	ND	26.320	25.000	ug/L	7.5	105	20	70 - 130		2
Chloroethane	MS	2226756-02	ND	22.630	25.000	ug/L		90.5		70 - 130		1
	MSD	2226756-02	ND	24.240	25.000	ug/L	6.9	97.0	20	70 - 130		2
1,4-Dichlorobenzene	MS	2226756-02	ND	25.720	25.000	ug/L		103		70 - 130		1
	MSD	2226756-02	ND	27.580	25.000	ug/L	7.0	110	20	70 - 130		2
1,1-Dichloroethane	MS	2226756-02	ND	21.750	25.000	ug/L		87.0		70 - 130		1
	MSD	2226756-02	ND	23.490	25.000	ug/L	7.7	94.0	20	70 - 130		2
1,1-Dichloroethene	MS	2226756-02	ND	23.260	25.000	ug/L		93.0		70 - 130		1
	MSD	2226756-02	ND	25.280	25.000	ug/L	8.3	101	20	70 - 130		2
Toluene	MS	2226756-02	ND	22.630	25.000	ug/L		90.5		70 - 130		1
	MSD	2226756-02	ND	24.960	25.000	ug/L	9.8	99.8	20	70 - 130		2
Trichloroethene	MS	2226756-02	ND	22.670	25.000	ug/L		90.7		70 - 130		1
	MSD	2226756-02	ND	24.550	25.000	ug/L	8.0	98.2	20	70 - 130		2
1,2-Dichloroethane-d4 (Surrogate)	MS	2226756-02	ND	9.3900	10.000	ug/L		93.9		75 - 125		1
	MSD	2226756-02	ND	9.3500	10.000	ug/L	0.4	93.5		75 - 125		2
Toluene-d8 (Surrogate)	MS	2226756-02	ND	9.8800	10.000	ug/L		98.8		80 - 120		1
	MSD	2226756-02	ND	10.030	10.000	ug/L	1.5	100		80 - 120		2
4-Bromofluorobenzene (Surrogate)	MS	2226756-02	ND	9.7500	10.000	ug/L		97.5		80 - 120		1
	MSD	2226756-02	ND	9.7400	10.000	ug/L	0.1	97.4		80 - 120		2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B153440-MS1	MS	EPA-524.2	11/09/22	11/09/22 17:31	RCC	MS-V5	1
2	B153440-MSD1	MSD	EPA-524.2	11/09/22	11/09/22 17:55	RCC	MS-V5	1

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Reported: 12/13/2022 9:29
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
QC Batch ID: B153440							
Nitrobenzene	B153440-BLK1	0	ug/L				1
Methyl acrylate	B153440-BLK1	0	ug/L				1
Chloroacetonitrile	B153440-BLK1	0	ug/L				1
2-Nitropropane	B153440-BLK1	0	ug/L				1
1-Chlorobutane	B153440-BLK1	0	ug/L				1
1,1-Dichloropropanone	B153440-BLK1	0	ug/L				1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B153440-BLK1	PB	EPA-524.2	11/09/22	11/09/22 16:19	RCC	MS-V5	1

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Reported: 12/13/2022 9:29
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
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QC Batch ID: B155710

Perchlorate	B155710-BLK1	ND	ug/L	2.0	0.81		1
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QC Batch ID: B155711

Perchlorate	B155711-BLK1	ND	ug/L	2.0	0.81		2
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QC Batch ID: B155712

Perchlorate	B155712-BLK1	ND	ug/L	2.0	0.81		3
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Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B155710-BLK1	PB	EPA-314.0	12/09/22	12/10/22 04:24	SAV	IC6	1
2	B155711-BLK1	PB	EPA-314.0	12/09/22	12/10/22 02:21	SAV	IC6	1
3	B155712-BLK1	PB	EPA-314.0	12/09/22	12/10/22 05:56	SAV	IC6	1

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

Reported: 12/13/2022 9:29
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
								Percent Recovery	RPD		
QC Batch ID: B155710											
Perchlorate	B155710-BS1	LCS	10.927	10.000	ug/L	109		85 - 115			1
QC Batch ID: B155711											
Perchlorate	B155711-BS1	LCS	10.345	10.000	ug/L	103		85 - 115			2
QC Batch ID: B155712											
Perchlorate	B155712-BS1	LCS	11.035	10.000	ug/L	110		85 - 115			3

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B155710-BS1	LCS	EPA-314.0	12/09/22	12/10/22	04:39	SAV	IC6	1
2	B155711-BS1	LCS	EPA-314.0	12/09/22	12/10/22	02:36	SAV	IC6	1
3	B155712-BS1	LCS	EPA-314.0	12/09/22	12/10/22	06:11	SAV	IC6	1

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

Reported: 12/13/2022 9:29
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Source Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals	R#
									RPD	Percent Recovery		
QC Batch ID: B155710		Used client sample: Y - Description: MW-1, 11/03/2022 11:55										
Perchlorate	DUP	2226756-03	ND	ND		ug/L			15			1
	MS	2226756-03	ND	11.065	10.101	ug/L		110		80 - 120		2
	MSD	2226756-03	ND	10.947	10.101	ug/L	1.1	108	15	80 - 120		3
QC Batch ID: B155711		Used client sample: Y - Description: MW-15, 11/03/2022 09:35										
Perchlorate	DUP	2226756-02	ND	ND		ug/L			15			4
	MS	2226756-02	ND	10.882	10.101	ug/L		108		80 - 120		5
	MSD	2226756-02	ND	9.9312	10.101	ug/L	9.1	98.3	15	80 - 120		6
QC Batch ID: B155712		Used client sample: Y - Description: MW-9, 11/03/2022 13:15										
Perchlorate	DUP	2226756-04	ND	ND		ug/L			15			7
	MS	2226756-04	ND	10.836	10.101	ug/L		107		80 - 120		8
	MSD	2226756-04	ND	11.153	10.101	ug/L	2.9	110	15	80 - 120		9

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B155710-DUP1	DUP	EPA-314.0	12/09/22	12/10/22 05:10	SAV	IC6	1
2	B155710-MS1	MS	EPA-314.0	12/09/22	12/10/22 05:25	SAV	IC6	1.010
3	B155710-MSD1	MSD	EPA-314.0	12/09/22	12/10/22 05:40	SAV	IC6	1.010
4	B155711-DUP1	DUP	EPA-314.0	12/09/22	12/10/22 03:07	SAV	IC6	1
5	B155711-MS1	MS	EPA-314.0	12/09/22	12/10/22 03:22	SAV	IC6	1.010
6	B155711-MSD1	MSD	EPA-314.0	12/09/22	12/10/22 03:38	SAV	IC6	1.010
7	B155712-DUP1	DUP	EPA-314.0	12/09/22	12/10/22 06:42	SAV	IC6	1
8	B155712-MS1	MS	EPA-314.0	12/09/22	12/10/22 07:28	SAV	IC6	1.010
9	B155712-MSD1	MSD	EPA-314.0	12/09/22	12/10/22 07:43	SAV	IC6	1.010

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

Reported: 12/13/2022 9:29
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
QC Batch ID: B153922							
Total Recoverable Chromium	B153922-BLK1	ND	ug/L	3.0	0.50		1
QC Batch ID: B153959							
Hexavalent Chromium	B153959-BLK1	0.000026000	mg/L	0.00020	0.000020	J	2
QC Batch ID: B153960							
Hexavalent Chromium	B153960-BLK1	0.000073000	mg/L	0.00020	0.000020	J	3
QC Batch ID: B153961							
Hexavalent Chromium	B153961-BLK1	0.000080000	mg/L	0.00020	0.000020	J	4

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B153922-BLK1	PB	EPA-200.8	11/15/22	11/16/22 12:18	KHS	PE-EL4	1
2	B153959-BLK1	PB	EPA-218.6	11/15/22	11/15/22 22:33	KSA	IC-4	1
3	B153960-BLK1	PB	EPA-218.6	11/15/22	11/16/22 08:14	RC1	IC-4	1
4	B153961-BLK1	PB	EPA-218.6	11/15/22	11/16/22 08:33	RC1	IC-4	1

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

Reported: 12/13/2022 9:29
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
								Percent Recovery	RPD		
QC Batch ID: B153922											
Total Recoverable Chromium	B153922-BS1	LCS	40.717	40.000	ug/L	102		85 - 115			1
	B153922-BSD1	LCSD	40.560	40.000	ug/L	101	0.4	85 - 115	20		2
QC Batch ID: B153959											
Hexavalent Chromium	B153959-BS1	LCS	0.018632	0.020000	mg/L	93.2		90 - 110			3
QC Batch ID: B153960											
Hexavalent Chromium	B153960-BS1	LCS	0.019128	0.020000	mg/L	95.6		90 - 110			4
QC Batch ID: B153961											
Hexavalent Chromium	B153961-BS1	LCS	0.019147	0.020000	mg/L	95.7		90 - 110			5

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B153922-BS1	LCS	EPA-200.8	11/15/22	11/16/22 12:25	KHS	PE-EL4	1
2	B153922-BSD1	LCSD	EPA-200.8	11/15/22	11/16/22 12:27	KHS	PE-EL4	1
3	B153959-BS1	LCS	EPA-218.6	11/15/22	11/15/22 22:24	KSA	IC-4	1
4	B153960-BS1	LCS	EPA-218.6	11/15/22	11/15/22 22:43	KSA	IC-4	1
5	B153961-BS1	LCS	EPA-218.6	11/15/22	11/16/22 08:24	RC1	IC-4	1

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

Reported: 12/13/2022 9:29
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	R#
									RPD	Percent Recovery		
QC Batch ID: B153922		Used client sample: Y - Description: MW-15, 11/03/2022 09:35										
Total Recoverable Chromium	DUP	2226756-02	17.811	24.092		ug/L	30.0		20		Q01	1
	MS	2226756-02	17.811	68.829	40.000	ug/L		128		70 - 130		2
	MSD	2226756-02	17.811	63.610	40.000	ug/L	7.9	114	20	70 - 130		3
QC Batch ID: B153959		Used client sample: Y - Description: MW-15, 11/03/2022 09:35										
Hexavalent Chromium	DUP	2226756-02	0.00025600	0.00025600		mg/L	0		10			4
	MS	2226756-02	0.00025600	0.019518	0.020202	mg/L		95.3		90 - 110		5
	MSD	2226756-02	0.00025600	0.019457	0.020202	mg/L	0.3	95.0	10	90 - 110		6
QC Batch ID: B153960		Used client sample: Y - Description: MW-1, 11/03/2022 11:55										
Hexavalent Chromium	DUP	2226756-03	0.000073000	0.000098000		mg/L	29.2		10		J,A02	7
	MS	2226756-03	0.000073000	0.019337	0.020202	mg/L		95.4		90 - 110		8
	MSD	2226756-03	0.000073000	0.019305	0.020202	mg/L	0.2	95.2	10	90 - 110		9
QC Batch ID: B153961		Used client sample: Y - Description: MW-9, 11/03/2022 13:15										
Hexavalent Chromium	DUP	2226756-04	0.0015330	0.0014670		mg/L	4.4		10			10
	MS	2226756-04	0.0015330	0.020280	0.020202	mg/L		92.8		90 - 110		11
	MSD	2226756-04	0.0015330	0.020796	0.020202	mg/L	2.5	95.4	10	90 - 110		12

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B153922-DUP1	DUP	EPA-200.8	11/15/22	11/16/22	12:22	KHS	PE-EL4	1
2	B153922-MS1	MS	EPA-200.8	11/15/22	11/16/22	12:29	KHS	PE-EL4	1
3	B153922-MSD1	MSD	EPA-200.8	11/15/22	11/16/22	12:31	KHS	PE-EL4	1
4	B153959-DUP1	DUP	EPA-218.6	11/15/22	11/15/22	17:26	KSA	IC-4	1
5	B153959-MS1	MS	EPA-218.6	11/15/22	11/15/22	21:07	KSA	IC-4	1.010
6	B153959-MSD1	MSD	EPA-218.6	11/15/22	11/15/22	21:16	KSA	IC-4	1.010
7	B153960-DUP1	DUP	EPA-218.6	11/15/22	11/16/22	08:43	RC1	IC-4	1
8	B153960-MS1	MS	EPA-218.6	11/15/22	11/15/22	21:45	KSA	IC-4	1.010
9	B153960-MSD1	MSD	EPA-218.6	11/15/22	11/15/22	21:55	KSA	IC-4	1.010
10	B153961-DUP1	DUP	EPA-218.6	11/15/22	11/15/22	18:24	KSA	IC-4	1
11	B153961-MS1	MS	EPA-218.6	11/15/22	11/15/22	22:04	KSA	IC-4	1.010
12	B153961-MSD1	MSD	EPA-218.6	11/15/22	11/15/22	22:14	KSA	IC-4	1.010

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

Reported: 12/13/2022 9:29
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A02 The difference between duplicate readings is less than the quantitation limit.
- Q01 Sample precision is not within the control limits.
- S05 The sample holding time was exceeded.
- V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.



Date of Report: 12/15/2022

David Conner

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

Client Project: 4Q22
BCL Project: JPL- GW Monitoring Wells-CLP
BCL Work Order: 2226757
Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 11/2/2022. If you have any questions concerning this report, please feel free to contact me.

Revised Report: This report supercedes Report ID 1001375968

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 2226757

Revised report to correct -06 sample ID.



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

Reported: 12/15/2022 10:59
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Case Narrative

Sample Receipt

COC Number:

Samples received refrigerated to 0.7 °C

Sample List

<u>Lab Number</u>	<u>Date/Time Sampled</u>	<u>Sample Name</u>
2226757-01	11/02/2022 07:00	TB-8-110222
2226757-02	11/02/2022 08:35	MW-18-5
2226757-03	11/02/2022 09:10	MW-18-4
2226757-04	11/02/2022 10:00	MW-18-3
2226757-05	11/02/2022 10:45	MW-18-2
2226757-06	11/02/2022 11:00	EB-8-110222

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		
2226757-01	EPA-524.2	Bromomethane
2226757-01	EPA-524.2	Methyl iodide
2226757-01	EPA-524.2	Pentachloroethane
2226757-02	EPA-524.2	Bromomethane
2226757-02	EPA-524.2	Methyl iodide
2226757-02	EPA-524.2	Pentachloroethane
2226757-03	EPA-524.2	Bromomethane
2226757-03	EPA-524.2	Methyl iodide
2226757-03	EPA-524.2	Pentachloroethane
2226757-04	EPA-524.2	Bromomethane
2226757-04	EPA-524.2	Methyl iodide
2226757-04	EPA-524.2	Pentachloroethane
2226757-05	EPA-524.2	Bromomethane
2226757-05	EPA-524.2	Methyl iodide
2226757-05	EPA-524.2	Pentachloroethane
2226757-06	EPA-524.2	Bromomethane
2226757-06	EPA-524.2	Methyl iodide
2226757-06	EPA-524.2	Pentachloroethane

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

Reported: 12/15/2022 10:59
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Case Narrative

<u>Sample</u>		<u>Analyte</u>	<u>Flag</u>
Holding Times			
2226757-02	EPA-314.0	Perchlorate	S05
2226757-03	EPA-314.0	Perchlorate	S05
2226757-04	EPA-314.0	Perchlorate	S05
2226757-05	EPA-314.0	Perchlorate	S05
2226757-06	EPA-314.0	Perchlorate	S05
Method Blanks			
B153439-BLK1	EPA-524.2	1,1-Dichloropropanone	0 ug/L
B153439-BLK1	EPA-524.2	1-Chlorobutane	0 ug/L
B153439-BLK1	EPA-524.2	2-Nitropropane	0 ug/L
B153439-BLK1	EPA-524.2	Chloroacetonitrile	0 ug/L
B153439-BLK1	EPA-524.2	Methyl acrylate	0 ug/L
B153439-BLK1	EPA-524.2	Nitrobenzene	0 ug/L
B153958-BLK1	EPA-218.6	Hexavalent Chromium	0.000021000 mg/L
B155709-BLK1	EPA-314.0	Perchlorate	0.93600 ug/L
Matrix Spikes			
B153958-DUP1	EPA-218.6	Hexavalent Chromium	A02

LCS

The LCS recoveries are within QC limits.

Discussion

Summary of Flags

A02	The difference between duplicate readings is less than the quantitation limit.
S05	The sample holding time was exceeded.
V11	The Continuing Calibration Verification (CCV) recovery was not within established control limits.

REC-1A 11/22/22 1041

Page 1 of 1

Chain of Custody Form



22-26757

Report To: Tidewater, Inc. Client: David Conner Attn: David Conner Street Address: 3761 Allucks Drive City: Powell State: OH Zip: 43065 Phone: 626 298 - 5715 Fax: 614 792 - 2897 Email Address: david.conner@tidewater.com		Project Description: JPL-GW Monitoring Project Code: 4Q22 Sampler (s): Blaine Tech		Billing: Client: Tidewater Attn: David Conner Address: 3761 Allucks Drive City: Powell State: OH Zip: 43065 Are there any tests with holding times? less than or equal to 48 hours? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <small>*Standard Turnaround = 10</small>	
Analysis Requested Orthophosphate 365.1 Cl, NO3, NO2, SO4 Hexavalent Cr6 -218.6 (mg/L) Perchlorate TRM, Cr VOCs EPA 524.2		Matrix* W W W W W W		Notes Laboratory please select 2 SDs for Level IV validation ms/msd	
Sample # -1 TB-8-110222 -2 MW-18-5 -3 MW-18-4 -4 MW-18-3 -5 MW-18-2 -6 TB-8-110222		Date 11/22/22 0700 0835 0910 1000 1045 1100		CHK BY [Signature]	
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 type="checkbox"/> 3-5 Day Rush <input checked="" type="checkbox"/> Normal (10 - Days)		Lab TAT Approval: _____ <small>* Additional Charges May Apply</small>		HOLDING TIME DO <input type="checkbox"/> CL <input type="checkbox"/> SO4 <input type="checkbox"/> P/PAS <input type="checkbox"/> COT M = Miscellaneous O = Other	
Comments: PLEASE NOTATE WHICH SAMPLES TO USE FOR QC (MS/MSD) 90% Level III and 10% Level IV data validation required; Level IV Notated on C of C NOTE: ALL ANALYSIS REQUIRED TO HAVE CALIBRATION SUMMARIES (Inform OC)		Cost Center: 1. Relinquished By: [Signature] Date: 11/22/22 Time: 1320 2. Relinquished By: [Signature] Date: 11/22/22 Time: 0630 3. Relinquished By: [Signature] Date: 11/22/22 Time: 1830		Global ID: 1. Received By: [Signature] Date: 11/22/22 Time: 1830 2. Received By: [Signature] Date: 11/22/22 Time: 1830 3. Received By: [Signature] Date: 11/22/22 Time: 1830	

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

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PACE ANALYTICAL		COOLER RECEIPT FORM		Page	Of
Submission #: <u>22-26757</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: 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>0.98</u> Container: <u>PE</u> Thermometer ID: <u>274</u>		Date/Time: <u>11/2/12</u> 1830	
		Temperature: (A) <u>0.7</u> °C / (C) <u>0.7</u> °C		Analyst Init: <u>PEE</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				
2oz Cr ⁶⁺ <u>402</u>		F	F	F	I-J	F				
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz		E	E	E	K-L	E				
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A									
40ml VOA VIAL <u>HCL</u>		A-C	A-C	A-C	A-F	A-C				
QT EPA 1664B										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608.3/8081A										
QT EPA 515.1/8151A										
QT EPA 525.2										
QT EPA 525.2 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548.1										
QT EPA 549.2										
QT EPA 8015M										
QT EPA 8279C										
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: IOZ Date/Time: 11/8/12 16:00
 A = Actual / C = Corrected

Rev 23 05/20/22

[S:\WPDec\WordPerfect\LAB_DOC\FORMS\CHOC\CHOC23] (S:\WPDec\WordPerfect\LAB_DOC\FORMS\CHOC\CHOC23)



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

Reported: 12/15/2022 10:59
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2226757-01	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: TB-8-110222 Sampled By: BTST	Receive Date: 11/02/2022 18:30 Sampling Date: 11/02/2022 07:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-8 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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2226757-02	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: MW-18-5 Sampled By: BTST	Receive Date: 11/02/2022 18:30 Sampling Date: 11/02/2022 08:35 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-18-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

2226757-03	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: MW-18-4 Sampled By: BTST	Receive Date: 11/02/2022 18:30 Sampling Date: 11/02/2022 09:10 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-18-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Reported: 12/15/2022 10:59
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
2226757-04	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: MW-18-3 Sampled By: BTST		Receive Date: 11/02/2022 18:30 Sampling Date: 11/02/2022 10:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-18-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
2226757-05	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: MW-18-2 Sampled By: BTST		Receive Date: 11/02/2022 18:30 Sampling Date: 11/02/2022 10:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-18-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
2226757-06	COC Number: --- Project Number: NASA/JPL Sampling Location: --- Sampling Point: EB-8-110222 Sampled By: BTST		Receive Date: 11/02/2022 18:30 Sampling Date: 11/02/2022 11:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): FB-8 Matrix: W Sample QC Type (SACode): CS Cooler ID:

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Reported: 12/15/2022 10:59
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226757-01 **Client Sample Name:** NASA/JPL, TB-8-110222, 11/2/2022 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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

Reported: 12/15/2022 10:59
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226757-01 **Client Sample Name:** NASA/JPL, TB-8-110222, 11/2/2022 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: 12/15/2022 10:59
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226757-01	Client Sample Name: NASA/JPL, TB-8-110222, 11/2/2022 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	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)	89.2	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.6	%	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	11/09/22 07:49	11/09/22 14:20	RCC	MS-V5	1	B153439	EPA 524.2

DCN = Data Continuation Number



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Reported: 12/15/2022 10:59
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2226757-01	Client Sample Name: NASA/JPL, TB-8-110222, 11/2/2022 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	11/09/22 07:49	11/09/22	14:20	RCC	MS-V5	1	B153439	EPA 524.2

DCN = Data Continuation Number



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 Powell, OH 43065

Reported: 12/15/2022 10:59
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2226757-02	Client Sample Name:	NASA/JPL, MW-18-5, 11/2/2022 8:35:00AM						
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	V11	1	
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1	
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1	
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1	
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	

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Reported: 12/15/2022 10:59
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2226757-02	Client Sample Name:	NASA/JPL, MW-18-5, 11/2/2022 8:35:00AM						
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: 12/15/2022 10:59
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226757-02	Client Sample Name: NASA/JPL, MW-18-5, 11/2/2022 8:35:00AM
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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)	93.8	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.9	%	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	11/09/22 07:49	11/09/22 14:44	RCC	MS-V5	1	B153439	EPA 524.2

DCN = Data Continuation Number



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Reported: 12/15/2022 10:59
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2226757-02	Client Sample Name: NASA/JPL, MW-18-5, 11/2/2022 8:35:00AM
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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	11/09/22 07:49	11/09/22	14:44	RCC	MS-V5	1	B153439	EPA 524.2

DCN = Data Continuation Number



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Reported: 12/15/2022 10:59
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2226757-02	Client Sample Name: NASA/JPL, MW-18-5, 11/2/2022 8:35:00AM
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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	0.94	S05	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	12/09/22 17:00	12/10/22 01:35	SAV	IC6	1	B155709	No Prep

DCN = Data Continuation Number

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Reported: 12/15/2022 10:59
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2226757-02	Client Sample Name: NASA/JPL, MW-18-5, 11/2/2022 8:35:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.000074	mg/L	0.00020	0.000020	EPA-218.6	0.000021	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	11/15/22 15:00	11/15/22 18:33		KSA	IC-4	1	B153958	No Prep
2	EPA-200.8	11/14/22 20:20	11/15/22 14:47		ARD	PE-EL4	1	B153832	EPA 200.2

DCN = Data Continuation Number



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Reported: 12/15/2022 10:59
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2226757-03	Client Sample Name:	NASA/JPL, MW-18-4, 11/2/2022 9:10:00AM					
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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.79	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: 12/15/2022 10:59
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2226757-03	Client Sample Name:	NASA/JPL, MW-18-4, 11/2/2022 9:10:00AM					
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	0.70	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	0.97	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: 12/15/2022 10:59
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226757-03	Client Sample Name: NASA/JPL, MW-18-4, 11/2/2022 9:10:00AM
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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)	90.0	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.4	%	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	11/09/22 07:49	11/09/22 15:08	RCC	MS-V5	1	B153439	EPA 524.2

DCN = Data Continuation Number



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Reported: 12/15/2022 10:59
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2226757-03	Client Sample Name: NASA/JPL, MW-18-4, 11/2/2022 9:10:00AM
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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	11/09/22 07:49	11/09/22	15:08	RCC	MS-V5	1	B153439	EPA 524.2

DCN = Data Continuation Number



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Reported: 12/15/2022 10:59
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2226757-03	Client Sample Name: NASA/JPL, MW-18-4, 11/2/2022 9:10:00AM
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Perchlorate	17	ug/L	2.0	0.81	EPA-314.0	0.94	S05	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	12/09/22 17:00	12/09/22 22:31	SAV	IC6	1	B155709	No Prep

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Reported: 12/15/2022 10:59
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2226757-03	Client Sample Name: NASA/JPL, MW-18-4, 11/2/2022 9:10:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.0024	mg/L	0.00020	0.000020	EPA-218.6	0.000021		1
Total Recoverable Chromium	3.1	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	11/15/22 15:00	11/15/22	18:43	KSA	IC-4	1	B153958	No Prep
2	EPA-200.8	11/14/22 20:20	11/15/22	14:49	ARD	PE-EL4	1	B153832	EPA 200.2

DCN = Data Continuation Number



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Reported: 12/15/2022 10:59
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226757-04 **Client Sample Name:** NASA/JPL, MW-18-3, 11/2/2022 10:00:00AM

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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 12/15/2022 10:59
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226757-04 **Client Sample Name:** NASA/JPL, MW-18-3, 11/2/2022 10:00:00AM

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: 12/15/2022 10:59
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226757-04	Client Sample Name: NASA/JPL, MW-18-3, 11/2/2022 10:00:00AM
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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)	94.7	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.0	%	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	11/09/22 07:49	11/09/22 15:32	RCC	MS-V5	1	B153439	EPA 524.2

DCN = Data Continuation Number



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Reported: 12/15/2022 10:59
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2226757-04	Client Sample Name: NASA/JPL, MW-18-3, 11/2/2022 10:00:00AM
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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	11/09/22 07:49	11/09/22	15:32	RCC	MS-V5	1	B153439	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 12/15/2022 10:59
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2226757-04	Client Sample Name: NASA/JPL, MW-18-3, 11/2/2022 10:00:00AM
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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	0.94	S05	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	12/09/22 17:00	12/09/22 22:46	SAV	IC6	1	B155709	No Prep

DCN = Data Continuation Number

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Reported: 12/15/2022 10:59
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2226757-04	Client Sample Name: NASA/JPL, MW-18-3, 11/2/2022 10:00:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.0016	mg/L	0.00020	0.000020	EPA-218.6	0.000021		1
Total Recoverable Chromium	1.8	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	11/15/22 15:00	11/15/22	18:53	KSA	IC-4	1	B153958	No Prep
2	EPA-200.8	11/14/22 20:20	11/15/22	14:51	ARD	PE-EL4	1	B153832	EPA 200.2

DCN = Data Continuation Number



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Reported: 12/15/2022 10:59
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2226757-05	Client Sample Name:	NASA/JPL, MW-18-2, 11/2/2022 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	V11	1	
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1	
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1	
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1	
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	

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Reported: 12/15/2022 10:59
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226757-05		Client Sample Name: NASA/JPL, MW-18-2, 11/2/2022 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: 12/15/2022 10:59
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226757-05	Client Sample Name: NASA/JPL, MW-18-2, 11/2/2022 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	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)	92.4	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.4	%	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	11/09/22 07:49	11/09/22 11:56	RCC	MS-V5	1	B153439	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 12/15/2022 10:59
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2226757-05	Client Sample Name: NASA/JPL, MW-18-2, 11/2/2022 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	11/09/22 07:49	11/09/22	11:56	RCC	MS-V5	1	B153439	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 12/15/2022 10:59
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2226757-05	Client Sample Name: NASA/JPL, MW-18-2, 11/2/2022 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	0.94	S05	1

DCN	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-314.0	12/09/22 17:00	12/09/22 20:13	KSA	IC6	1	B155709	No Prep

DCN = Data Continuation Number

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Reported: 12/15/2022 10:59
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2226757-05	Client Sample Name: NASA/JPL, MW-18-2, 11/2/2022 10:45:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00015	mg/L	0.00020	0.000020	EPA-218.6	0.000021	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	11/15/22 15:00	11/15/22	19:02	KSA	IC-4	1	B153958	No Prep
2	EPA-200.8	11/14/22 20:20	11/15/22	14:19	ARD	PE-EL4	1	B153832	EPA 200.2

DCN = Data Continuation Number



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Reported: 12/15/2022 10:59
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2226757-06	Client Sample Name:	NASA/JPL, EB-8-110222, 11/2/2022 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	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 12/15/2022 10:59
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2226757-06	Client Sample Name:	NASA/JPL, EB-8-110222, 11/2/2022 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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 Powell, OH 43065

Reported: 12/15/2022 10:59
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2226757-06	Client Sample Name: NASA/JPL, EB-8-110222, 11/2/2022 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)	92.9	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.3	%	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	11/09/22 07:49	11/09/22 15:55	RCC	MS-V5	1	B153439	EPA 524.2

DCN = Data Continuation Number



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Reported: 12/15/2022 10:59
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2226757-06	Client Sample Name: NASA/JPL, EB-8-110222, 11/2/2022 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	11/09/22 07:49	11/09/22	15:55	RCC	MS-V5	1	B153439	EPA 524.2

DCN = Data Continuation Number



Tidewater Inc. - Powell
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Reported: 12/15/2022 10:59
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2226757-06	Client Sample Name: NASA/JPL, EB-8-110222, 11/2/2022 11:00:00AM
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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	0.94	S05	1

DCN	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-314.0	12/09/22 17:00	12/09/22	23:02	SAV	IC6	1	B155709	No Prep

DCN = Data Continuation Number

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Reported: 12/15/2022 10:59
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2226757-06	Client Sample Name: NASA/JPL, EB-8-110222, 11/2/2022 11:00:00AM							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	DCN
Hexavalent Chromium	0.00029	mg/L	0.00020	0.000020	EPA-218.6	0.000021		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	11/15/22 15:00	11/15/22 19:21		KSA	IC-4	1	B153958	No Prep
2	EPA-200.8	11/14/22 20:20	11/15/22 14:53		ARD	PE-EL4	1	B153832	EPA 200.2

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Reported: 12/15/2022 10:59
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
QC Batch ID: B153439							
Benzene	B153439-BLK1	ND	ug/L	0.50	0.11		1
Bromobenzene	B153439-BLK1	ND	ug/L	0.50	0.15		1
Bromochloromethane	B153439-BLK1	ND	ug/L	0.50	0.27		1
Bromodichloromethane	B153439-BLK1	ND	ug/L	0.50	0.20		1
Bromoform	B153439-BLK1	ND	ug/L	0.50	0.46		1
Bromomethane	B153439-BLK1	ND	ug/L	0.50	0.20		1
n-Butylbenzene	B153439-BLK1	ND	ug/L	0.50	0.15		1
sec-Butylbenzene	B153439-BLK1	ND	ug/L	0.50	0.13		1
tert-Butylbenzene	B153439-BLK1	ND	ug/L	0.50	0.18		1
Carbon tetrachloride	B153439-BLK1	ND	ug/L	0.50	0.17		1
Chlorobenzene	B153439-BLK1	ND	ug/L	0.50	0.14		1
Chloroethane	B153439-BLK1	ND	ug/L	0.50	0.17		1
Chloroform	B153439-BLK1	ND	ug/L	0.50	0.14		1
Chloromethane	B153439-BLK1	ND	ug/L	0.50	0.11		1
2-Chlorotoluene	B153439-BLK1	ND	ug/L	0.50	0.14		1
4-Chlorotoluene	B153439-BLK1	ND	ug/L	0.50	0.093		1
Dibromochloromethane	B153439-BLK1	ND	ug/L	0.50	0.22		1
1,2-Dibromo-3-chloropropane	B153439-BLK1	ND	ug/L	1.0	0.89		1
1,2-Dibromoethane	B153439-BLK1	ND	ug/L	0.50	0.22		1
Dibromomethane	B153439-BLK1	ND	ug/L	0.50	0.23		1
1,2-Dichlorobenzene	B153439-BLK1	ND	ug/L	0.50	0.21		1
1,3-Dichlorobenzene	B153439-BLK1	ND	ug/L	0.50	0.16		1
1,4-Dichlorobenzene	B153439-BLK1	ND	ug/L	0.50	0.15		1
Dichlorodifluoromethane	B153439-BLK1	ND	ug/L	0.50	0.15		1
1,1-Dichloroethane	B153439-BLK1	ND	ug/L	0.50	0.15		1
1,2-Dichloroethane	B153439-BLK1	ND	ug/L	0.50	0.17		1
1,1-Dichloroethene	B153439-BLK1	ND	ug/L	0.50	0.27		1
cis-1,2-Dichloroethene	B153439-BLK1	ND	ug/L	0.50	0.27		1
trans-1,2-Dichloroethene	B153439-BLK1	ND	ug/L	0.50	0.17		1
1,2-Dichloropropane	B153439-BLK1	ND	ug/L	0.50	0.15		1
1,3-Dichloropropane	B153439-BLK1	ND	ug/L	0.50	0.13		1
2,2-Dichloropropane	B153439-BLK1	ND	ug/L	0.50	0.18		1
1,1-Dichloropropene	B153439-BLK1	ND	ug/L	0.50	0.19		1
cis-1,3-Dichloropropene	B153439-BLK1	ND	ug/L	0.50	0.14		1

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Reported: 12/15/2022 10:59
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
QC Batch ID: B153439							
trans-1,3-Dichloropropene	B153439-BLK1	ND	ug/L	0.50	0.13		1
Ethylbenzene	B153439-BLK1	ND	ug/L	0.50	0.15		1
Hexachlorobutadiene	B153439-BLK1	ND	ug/L	0.50	0.20		1
Isopropylbenzene	B153439-BLK1	ND	ug/L	0.50	0.14		1
p-Isopropyltoluene	B153439-BLK1	ND	ug/L	0.50	0.14		1
Methylene chloride	B153439-BLK1	ND	ug/L	0.50	0.21		1
Methyl t-butyl ether	B153439-BLK1	ND	ug/L	0.50	0.14		1
Naphthalene	B153439-BLK1	ND	ug/L	0.50	0.16		1
n-Propylbenzene	B153439-BLK1	ND	ug/L	0.50	0.12		1
Styrene	B153439-BLK1	ND	ug/L	0.50	0.12		1
1,1,1,2-Tetrachloroethane	B153439-BLK1	ND	ug/L	0.50	0.21		1
1,1,1,2,2-Tetrachloroethane	B153439-BLK1	ND	ug/L	0.50	0.17		1
Tetrachloroethene	B153439-BLK1	ND	ug/L	0.50	0.23		1
Toluene	B153439-BLK1	ND	ug/L	0.50	0.17		1
1,2,3-Trichlorobenzene	B153439-BLK1	ND	ug/L	0.50	0.19		1
1,2,4-Trichlorobenzene	B153439-BLK1	ND	ug/L	0.50	0.15		1
1,1,1-Trichloroethane	B153439-BLK1	ND	ug/L	0.50	0.21		1
1,1,2-Trichloroethane	B153439-BLK1	ND	ug/L	0.50	0.21		1
Trichloroethene	B153439-BLK1	ND	ug/L	0.50	0.19		1
Trichlorofluoromethane	B153439-BLK1	ND	ug/L	0.50	0.14		1
1,2,3-Trichloropropane	B153439-BLK1	ND	ug/L	1.0	0.78		1
1,1,2-Trichloro-1,2,2-trifluoroethane	B153439-BLK1	ND	ug/L	0.50	0.19		1
1,2,4-Trimethylbenzene	B153439-BLK1	ND	ug/L	0.50	0.17		1
1,3,5-Trimethylbenzene	B153439-BLK1	ND	ug/L	0.50	0.14		1
Vinyl chloride	B153439-BLK1	ND	ug/L	0.50	0.18		1
Acetone	B153439-BLK1	ND	ug/L	10	6.6		1
Acrylonitrile	B153439-BLK1	ND	ug/L	5.0	1.5		1
Allyl chloride	B153439-BLK1	ND	ug/L	5.0	0.47		1
t-Amyl Methyl ether	B153439-BLK1	ND	ug/L	0.50	0.19		1
t-Butyl alcohol	B153439-BLK1	ND	ug/L	2.0	2.0		1
Carbon disulfide	B153439-BLK1	ND	ug/L	0.50	0.48		1
trans-1,4-Dichloro-2-butene	B153439-BLK1	ND	ug/L	5.0	1.8		1
Diethyl ether	B153439-BLK1	ND	ug/L	2.0	0.33		1
Ethyl methacrylate	B153439-BLK1	ND	ug/L	4.0	1.3		1

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

Reported: 12/15/2022 10:59
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
QC Batch ID: B153439							
Ethyl t-butyl ether	B153439-BLK1	ND	ug/L	0.50	0.32		1
Hexachloroethane	B153439-BLK1	ND	ug/L	0.50	0.11		1
2-Hexanone	B153439-BLK1	ND	ug/L	10	5.0		1
Methacrylonitrile	B153439-BLK1	ND	ug/L	10	2.3		1
Methyl ethyl ketone	B153439-BLK1	ND	ug/L	5.0	3.3		1
Methyl iodide	B153439-BLK1	ND	ug/L	2.0	1.1		1
Methyl isobutyl ketone	B153439-BLK1	ND	ug/L	5.0	2.4		1
Methyl methacrylate	B153439-BLK1	ND	ug/L	5.0	1.2		1
Pentachloroethane	B153439-BLK1	ND	ug/L	2.0	0.63		1
Propionitrile	B153439-BLK1	ND	ug/L	20	6.2		1
Tetrahydrofuran	B153439-BLK1	ND	ug/L	20	5.2		1
p- & m-Xylenes	B153439-BLK1	ND	ug/L	0.50	0.34		1
o-Xylene	B153439-BLK1	ND	ug/L	0.50	0.13		1
1,2-Dichloroethane-d4 (Surrogate)	B153439-BLK1	89.7	%	75 - 125 (LCL - UCL)			1
Toluene-d8 (Surrogate)	B153439-BLK1	97.6	%	80 - 120 (LCL - UCL)			1
4-Bromofluorobenzene (Surrogate)	B153439-BLK1	92.1	%	80 - 120 (LCL - UCL)			1

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Reported: 12/15/2022 10:59
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
								Percent Recovery	RPD		
QC Batch ID: B153439											
Benzene	B153439-BS1	LCS	22.250	25.000	ug/L	89.0		70 - 130			1
Bromodichloromethane	B153439-BS1	LCS	26.340	25.000	ug/L	105		70 - 130			1
Chlorobenzene	B153439-BS1	LCS	25.990	25.000	ug/L	104		70 - 130			1
Chloroethane	B153439-BS1	LCS	24.070	25.000	ug/L	96.3		70 - 130			1
1,4-Dichlorobenzene	B153439-BS1	LCS	26.890	25.000	ug/L	108		70 - 130			1
1,1-Dichloroethane	B153439-BS1	LCS	22.590	25.000	ug/L	90.4		70 - 130			1
1,1-Dichloroethene	B153439-BS1	LCS	24.570	25.000	ug/L	98.3		70 - 130			1
Toluene	B153439-BS1	LCS	23.960	25.000	ug/L	95.8		70 - 130			1
Trichloroethene	B153439-BS1	LCS	24.000	25.000	ug/L	96.0		70 - 130			1
1,2-Dichloroethane-d4 (Surrogate)	B153439-BS1	LCS	9.1200	10.000	ug/L	91.2		75 - 125			1
Toluene-d8 (Surrogate)	B153439-BS1	LCS	9.8800	10.000	ug/L	98.8		80 - 120			1
4-Bromofluorobenzene (Surrogate)	B153439-BS1	LCS	9.8800	10.000	ug/L	98.8		80 - 120			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B153439-BS1	LCS	EPA-524.2	11/09/22	11/09/22	12:20	RCC	MS-V5	1
1	B153439-BS1	LCS	EPA-524.2	11/09/22	11/09/22	12:20	RCC	MS-V5	1
1	B153439-BS1	LCS	EPA-524.2	11/09/22	11/09/22	12:20	RCC	MS-V5	1
1	B153439-BS1	LCS	EPA-524.2	11/09/22	11/09/22	12:20	RCC	MS-V5	1
1	B153439-BS1	LCS	EPA-524.2	11/09/22	11/09/22	12:20	RCC	MS-V5	1
1	B153439-BS1	LCS	EPA-524.2	11/09/22	11/09/22	12:20	RCC	MS-V5	1
1	B153439-BS1	LCS	EPA-524.2	11/09/22	11/09/22	12:20	RCC	MS-V5	1
1	B153439-BS1	LCS	EPA-524.2	11/09/22	11/09/22	12:20	RCC	MS-V5	1
1	B153439-BS1	LCS	EPA-524.2	11/09/22	11/09/22	12:20	RCC	MS-V5	1
1	B153439-BS1	LCS	EPA-524.2	11/09/22	11/09/22	12:20	RCC	MS-V5	1
1	B153439-BS1	LCS	EPA-524.2	11/09/22	11/09/22	12:20	RCC	MS-V5	1
1	B153439-BS1	LCS	EPA-524.2	11/09/22	11/09/22	12:20	RCC	MS-V5	1
1	B153439-BS1	LCS	EPA-524.2	11/09/22	11/09/22	12:20	RCC	MS-V5	1
1	B153439-BS1	LCS	EPA-524.2	11/09/22	11/09/22	12:20	RCC	MS-V5	1
1	B153439-BS1	LCS	EPA-524.2	11/09/22	11/09/22	12:20	RCC	MS-V5	1

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

Reported: 12/15/2022 10:59
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	R#
									RPD	Percent Recovery		
QC Batch ID: B153439		Used client sample: Y - Description: MW-18-2, 11/02/2022 10:45										
Benzene	MS	2226757-05	ND	22.360	25.000	ug/L		89.4		70 - 130		1
	MSD	2226757-05	ND	22.300	25.000	ug/L	0.3	89.2	20	70 - 130		2
Bromodichloromethane	MS	2226757-05	ND	26.410	25.000	ug/L		106		70 - 130		1
	MSD	2226757-05	ND	26.250	25.000	ug/L	0.6	105	20	70 - 130		2
Chlorobenzene	MS	2226757-05	ND	25.540	25.000	ug/L		102		70 - 130		1
	MSD	2226757-05	ND	25.640	25.000	ug/L	0.4	103	20	70 - 130		2
Chloroethane	MS	2226757-05	ND	24.150	25.000	ug/L		96.6		70 - 130		1
	MSD	2226757-05	ND	24.170	25.000	ug/L	0.1	96.7	20	70 - 130		2
1,4-Dichlorobenzene	MS	2226757-05	ND	26.570	25.000	ug/L		106		70 - 130		1
	MSD	2226757-05	ND	26.590	25.000	ug/L	0.1	106	20	70 - 130		2
1,1-Dichloroethane	MS	2226757-05	ND	22.600	25.000	ug/L		90.4		70 - 130		1
	MSD	2226757-05	ND	22.620	25.000	ug/L	0.1	90.5	20	70 - 130		2
1,1-Dichloroethene	MS	2226757-05	ND	24.410	25.000	ug/L		97.6		70 - 130		1
	MSD	2226757-05	ND	24.330	25.000	ug/L	0.3	97.3	20	70 - 130		2
Toluene	MS	2226757-05	ND	24.240	25.000	ug/L		97.0		70 - 130		1
	MSD	2226757-05	ND	23.910	25.000	ug/L	1.4	95.6	20	70 - 130		2
Trichloroethene	MS	2226757-05	ND	24.050	25.000	ug/L		96.2		70 - 130		1
	MSD	2226757-05	ND	23.890	25.000	ug/L	0.7	95.6	20	70 - 130		2
1,2-Dichloroethane-d4 (Surrogate)	MS	2226757-05	ND	8.9100	10.000	ug/L		89.1		75 - 125		1
	MSD	2226757-05	ND	9.0300	10.000	ug/L	1.3	90.3		75 - 125		2
Toluene-d8 (Surrogate)	MS	2226757-05	ND	9.9000	10.000	ug/L		99.0		80 - 120		1
	MSD	2226757-05	ND	9.9200	10.000	ug/L	0.2	99.2		80 - 120		2
4-Bromofluorobenzene (Surrogate)	MS	2226757-05	ND	9.6800	10.000	ug/L		96.8		80 - 120		1
	MSD	2226757-05	ND	9.9200	10.000	ug/L	2.4	99.2		80 - 120		2

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Reported: 12/15/2022 10:59
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
QC Batch ID: B153439							
Nitrobenzene	B153439-BLK1	0	ug/L				1
Methyl acrylate	B153439-BLK1	0	ug/L				1
Chloroacetonitrile	B153439-BLK1	0	ug/L				1
2-Nitropropane	B153439-BLK1	0	ug/L				1
1-Chlorobutane	B153439-BLK1	0	ug/L				1
1,1-Dichloropropanone	B153439-BLK1	0	ug/L				1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B153439-BLK1	PB	EPA-524.2	11/09/22	11/09/22	11:32	RCC	MS-V5	1
1	B153439-BLK1	PB	EPA-524.2	11/09/22	11/09/22	11:32	RCC	MS-V5	1
1	B153439-BLK1	PB	EPA-524.2	11/09/22	11/09/22	11:32	RCC	MS-V5	1
1	B153439-BLK1	PB	EPA-524.2	11/09/22	11/09/22	11:32	RCC	MS-V5	1
1	B153439-BLK1	PB	EPA-524.2	11/09/22	11/09/22	11:32	RCC	MS-V5	1
1	B153439-BLK1	PB	EPA-524.2	11/09/22	11/09/22	11:32	RCC	MS-V5	1

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Reported: 12/15/2022 10:59
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
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QC Batch ID: B155709

Perchlorate	B155709-BLK1	0.93600	ug/L	2.0	0.81	J	1
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Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B155709-BLK1	PB	EPA-314.0	12/09/22	12/09/22 19:42	KSA	IC6	1

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Reported: 12/15/2022 10:59
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	Run #
								Percent Recovery	RPD		
QC Batch ID: B155709											
Perchlorate	B155709-BS1	LCS	9.8746	10.000	ug/L	98.7		85 - 115			1

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B155709-BS1	LCS	EPA-314.0	12/09/22	12/09/22 19:57	KSA	IC6	1

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Reported: 12/15/2022 10:59
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Source Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals	R#
									RPD	Percent Recovery		
QC Batch ID: B155709		Used client sample: Y - Description: MW-18-2, 11/02/2022 10:45										
Perchlorate	DUP	2226757-05	ND	ND		ug/L			15			1
	MS	2226757-05	ND	10.857	10.101	ug/L		107		80 - 120		2
	MSD	2226757-05	ND	10.437	10.101	ug/L	3.9	103	15	80 - 120		3

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B155709-DUP1	DUP	EPA-314.0	12/09/22	12/09/22 20:28	KSA	IC6	1
2	B155709-MS1	MS	EPA-314.0	12/09/22	12/09/22 20:43	KSA	IC6	1.010
3	B155709-MSD1	MSD	EPA-314.0	12/09/22	12/09/22 20:59	SAV	IC6	1.010

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Reported: 12/15/2022 10:59
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals	Run #
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QC Batch ID: B153832

Total Recoverable Chromium	B153832-BLK1	ND	ug/L	3.0	0.50		1
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QC Batch ID: B153958

Hexavalent Chromium	B153958-BLK1	0.000021000	mg/L	0.00020	0.000020	J	2
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Run #	QC Sample ID	QC Type	Method	Prep Date	Run		Analyst	Instrument	Dilution
					Date	Time			
1	B153832-BLK1	PB	EPA-200.8	11/14/22	11/15/22	14:17	ARD	PE-EL4	1
2	B153958-BLK1	PB	EPA-218.6	11/15/22	11/15/22	20:38	KSA	IC-4	1

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Reported: 12/15/2022 10:59
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 Project Number: 4Q22
 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	Run #
								Percent Recovery	RPD		
QC Batch ID: B153832											
Total Recoverable Chromium	B153832-BS1	LCS	43.032	40.000	ug/L	108		85 - 115			1

QC Batch ID: B153958											
Hexavalent Chromium	B153958-BS1	LCS	0.018974	0.020000	mg/L	94.9		90 - 110			2

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B153832-BS1	LCS	EPA-200.8	11/14/22	11/15/22 14:25	ARD	PE-EL4	1
2	B153958-BS1	LCS	EPA-218.6	11/15/22	11/15/22 20:28	KSA	IC-4	1

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Reported: 12/15/2022 10:59
 Project: JPL- GW Monitoring Wells-CLP
 Project Number: 4Q22
 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	R#
									RPD	Percent Recovery		
QC Batch ID: B153832		Used client sample: Y - Description: MW-18-2, 11/02/2022 10:45										
Total Recoverable Chromium	DUP	2226757-05	ND	ND		ug/L			20			1
	MS	2226757-05	ND	38.791	40.000	ug/L		97.0		70 - 130		2
	MSD	2226757-05	ND	40.293	40.000	ug/L	3.8	101	20	70 - 130		3

QC Batch ID: B153958		Used client sample: Y - Description: MW-18-2, 11/02/2022 10:45										
Hexavalent Chromium	DUP	2226757-05	0.00014800	0.00016800		mg/L	12.7		10		J,A02	4
	MS	2226757-05	0.00014800	0.019662	0.020202	mg/L		96.6		90 - 110		5
	MSD	2226757-05	0.00014800	0.019414	0.020202	mg/L	1.3	95.4	10	90 - 110		6

Run #	QC Sample ID	QC Type	Method	Prep Date	Run Date Time	Analyst	Instrument	Dilution
1	B153832-DUP1	DUP	EPA-200.8	11/14/22	11/15/22 14:21	ARD	PE-EL4	1
2	B153832-MS1	MS	EPA-200.8	11/14/22	11/15/22 14:26	ARD	PE-EL4	1
3	B153832-MSD1	MSD	EPA-200.8	11/14/22	11/15/22 14:28	ARD	PE-EL4	1
4	B153958-DUP1	DUP	EPA-218.6	11/15/22	11/15/22 19:12	KSA	IC-4	1
5	B153958-MS1	MS	EPA-218.6	11/15/22	11/15/22 20:48	KSA	IC-4	1.010
6	B153958-MSD1	MSD	EPA-218.6	11/15/22	11/15/22 20:57	KSA	IC-4	1.010

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Tidewater Inc. - Powell
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Powell, OH 43065

Reported: 12/15/2022 10:59
Project: JPL- GW Monitoring Wells-CLP
Project Number: 4Q22
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A02 The difference between duplicate readings is less than the quantitation limit.
- S05 The sample holding time was exceeded.
- V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.

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