

ATTACHMENT 3: LABORATORY ANALYTICAL REPORTS

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



Date of Report: 06/26/2020

David Conner

Tidewater Inc. - Powell

3761 Attucks Drive

Powell, OH 43065

Client Project: 2Q20

BCL Project: JPL- GW Monitoring Wells

BCL Work Order: 2016743

Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 6/9/2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda

Client Service Rep

Stuart Buttram

Technical Director

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

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Chain of Custody Form

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Required Fields

Report To: Client: Tidewater, Inc. Attn: David Conner
 Street Address: 3761 Allucks Drive City: Powell State: OH Zip: 43065
 Phone: 626 1288 - 5715 Fax: 614 792 - 2897
 Email Address: david.conner@tideh2o.net
 Submission #: 20-16743

Project Description: JPL-GW Monitoring Project Code: 2020 Sampler (s): Elaine Tech

Sample #	Sample Description	Date	Time	Matrix*
-1	1B-1-060920	6-9-20	0830	L
-2	MU-4-5	6-9-20	0900	L
-3	MU-4-4	6-9-20	1015	L
-4	MU-4-3	6-9-20	1120	L
-5	MU-4-2	6-9-20	1220	L
-6	MU-4-1	6-9-20	1600	L
-7	EB-1-060920	6-9-20	1540	L

Analysis Requested

VOCS EPA 524.2	X
TRM: Cr, Pb, As, Ca, Mg, K	X
Na, Fe	X
Hexavalent Cr6 -218.6 (mg/L)	X
Cl, NO3, NO2, SO4, Perch.	X
CO3, HCO3, Alk, TDS, pH	X
Orthophosphate 365.1	X
1,4 Dioxane 8270SIM	X
NDMA 1625M	X
PAHs, Phthalates, Phenols	X

Notes

CHK BY: DISTRIBUTION
 (S) JLN
 SUB OUT

SHORT HOLDING TIME
 (C) (NO) (NO) OP SS
 DO Cl2 BOD MBAS COT

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

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

Lab TAT Approval: _____

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

Global ID:
 1. Received By: [Signature] Date: 6-9-20 Time: 1630
 2. Received By: [Signature] Date: 6-9-20 Time: 1925
 3. Received By: [Signature] Date: 6-9-20 Time: 1925

Cost Center:
 1. Relinquished By: [Signature] Date: 6-9-20 Time: 1630
 2. Relinquished By: [Signature] Date: 6-9-20 Time: 1925
 3. Relinquished By: [Signature] Date: 6-9-20 Time: 1925

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

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Laboratories, Inc.

Environmental Testing Laboratory Since 1949

Submission #: 20-16743 Page 1 of 3

SHIPPING INFORMATION
 Fed Ex UPS Ontrac Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO
 W / S _____

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers
 Intact? Yes No Intact? Yes No None Comments: _____

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

COC Received YES NO
 Emissivity: 0.98 Container: PE Thermometer ID: 208 Date/Time: 6/9 1925
 Temperature: (A) 1.2 °C / (C) 1.1 °C Analyst Init: GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES		E	E	E	E	E	E			
4oz / 8oz / 16oz PE UNPRES		F	F	F	F	F	F			
2oz Cr ⁶⁺		D	D	D	D	D	D			
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz		G	G	G	G	G	G			
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A									
40ml VOA VIAL		ABC	ABC	ABC	ABC	ABC	ABC			
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 518/008/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 3015M										
QT EPA 8276										
8oz / 16oz / 32oz AMBER					HD					
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____
 Sample Numbering Completed By: GSP Date/Time: 6/9 2039
 A = Actual / C = Corrected
 Rev 21 05/23/2016
 (S:\WFDoc\Word\ref\cd\LAB_DOC\FORMS\GAMRECrev 206)



Submission #: 2016743 Page 2 of 2

SHIPPING INFORMATION: Fed Ex, UPS, Ontrac, Hand Delivery, Other. SHIPPING CONTAINER: Ice Chest, None, Box, Other. FREE LIQUID: YES, NO, W/S.

Refrigerant: Ice, Blue Ice, None, Other. Comments:

Custody Seals: Ice Chest, Containers, None. Intact? Yes/No.

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

COC Received: YES/NO. Emissivity: 0.97. Container: Amber. Thermometer ID: 208. Date/Time: 6/9/2015. Analyst Init: GSP. Temperature: (A) 1.4 °C / (C) 1.6 °C.

Table with columns for SAMPLE CONTAINERS and SAMPLE NUMBERS (1-10). Rows include various sample types like PE UNPRES, INORGANIC CHEMICAL METALS, PT CYANIDE, etc.

Comments: Sample Numbering Completed By: GSP Date/Time: 6/9 2039 Rev 21 05/23/2016



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

Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2016743-01	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: TB-1-060920 Sampled By: Blaine Tech of BTST	Receive Date: 06/09/2020 19:25 Sampling Date: 06/09/2020 08:30 Sample Depth: --- Lab Matrix: Water Sample Type: Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-1-060920 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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2016743-02	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-4-5 Sampled By: Blaine Tech of BTST	Receive Date: 06/09/2020 19:25 Sampling Date: 06/09/2020 09:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-4-5 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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2016743-03	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-4-4 Sampled By: Blaine Tech of BTST	Receive Date: 06/09/2020 19:25 Sampling Date: 06/09/2020 10:15 Sample Depth: --- Lab Matrix: Water Sample Type: Water 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: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2016743-04	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-4-3 Sampled By: Blaine Tech of BTST	Receive Date: 06/09/2020 19:25 Sampling Date: 06/09/2020 11:20 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-4-3 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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2016743-05	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-4-2 Sampled By: Blaine Tech of BTST	Receive Date: 06/09/2020 19:25 Sampling Date: 06/09/2020 12:20 Sample Depth: --- Lab Matrix: Water Sample Type: Water 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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2016743-06	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-4-1 Sampled By: Blaine Tech of BTST	Receive Date: 06/09/2020 19:25 Sampling Date: 06/09/2020 16:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-4-1 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2016743-07	COC Number: ---	Receive Date: 06/09/2020 19:25
	Project Number: JPL	Sampling Date: 06/09/2020 15:40
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: EB-1-060920	Lab Matrix: Water
	Sampled By: Blaine Tech of BTST	Sample Type: Water
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): EB-1-060920
		Matrix: WG
		Sample QC Type (SACode): CS
		Cooler ID:

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Powell, OH 43065

Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2016743-01	Client Sample Name: JPL, TB-1-060920, 6/9/2020 8:30:00AM, Blaine Tech
----------------------------------	--

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

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

Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2016743-01	Client Sample Name: JPL, TB-1-060920, 6/9/2020 8:30:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND	V11	1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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

Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2016743-01 Client Sample Name: JPL, TB-1-060920, 6/9/2020 8:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	100	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/11/20 10:17	06/11/20 15:58	MGC	MS-V5	1	B080009	EPA 524.2

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2016743-01	Client Sample Name: JPL, TB-1-060920, 6/9/2020 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/11/20 10:17	06/11/20	15:58	MGC	MS-V5	1	B080009	EPA 524.2

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2016743-02) and Client Sample Name (JPL, MW-4-5, 6/9/2020 9:00:00AM, Blaine Tech)

Main data table with columns: Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quads, Run #. Lists various VOCs like Benzene, Bromobenzene, etc.

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2016743-02	Client Sample Name: JPL, MW-4-5, 6/9/2020 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND	V11	1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2016743-02	Client Sample Name: JPL, MW-4-5, 6/9/2020 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/11/20 10:17	06/11/20 16:22	MGC	MS-V5	1	B080009	EPA 524.2

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2016743-02	Client Sample Name: JPL, MW-4-5, 6/9/2020 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/11/20 10:17	06/11/20	16:22	MGC	MS-V5	1	B080009	EPA 524.2

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2016743-02		Client Sample Name: JPL, MW-4-5, 6/9/2020 9:00:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	62	mg/L	0.10	0.014	EPA-200.7	ND		1	
Total Recoverable Magnesium	21	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	36	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	2.1	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	200	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	160	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	53	mg/L	0.50	0.13	EPA-300.0	ND		3	
Nitrate as N	1.0	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	79	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	7.87	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	420	mg/L	20	10	EPA-160.1	ND	A07	5	
Nitrite as N	0.48	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	1.9	ug/L	4.0	0.81	EPA-314.0	ND	J	7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/12/20 08:15	06/12/20	13:02	JRG	PE-OP4	1	B080087	EPA 200.2
2	SM-2320B	06/15/20 12:00	06/15/20	15:18	MEV	MET-1	1	B067945	No Prep
3	EPA-300.0	06/09/20 18:00	06/10/20	01:47	SAV	IC5	1	B079867	No Prep
4	EPA-150.1	06/15/20 12:00	06/15/20	15:18	MEV	MET-1	1	B067945	No Prep
5	EPA-160.1	06/11/20 13:00	06/12/20	13:00	CAD	MANUAL	2	B080005	No Prep
6	EPA-353.2	06/09/20 22:00	06/09/20	22:09	CMM	KONE-1	1	B079995	No Prep
7	EPA-314.0	06/18/20 10:00	06/18/20	15:01	KB1	IC6	1	B080503	No Prep

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2016743-02	Client Sample Name: JPL, MW-4-5, 6/9/2020 9:00:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	1.1	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	2.4	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	7000	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/10/20 12:00	06/10/20	15:40	KB1	IC-4	1	B079927	No Prep
2	EPA-200.8	06/10/20 12:15	06/10/20	16:09	AS1	PE-EL2	1	B079929	EPA 200.2
3	EPA-200.7	06/12/20 08:15	06/12/20	13:02	JRG	PE-OP4	1	B080087	EPA 200.2

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2016743-03	Client Sample Name: JPL, MW-4-4, 6/9/2020 10:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2016743-03		Client Sample Name: JPL, MW-4-4, 6/9/2020 10:15:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND	V11	1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2016743-03	Client Sample Name: JPL, MW-4-4, 6/9/2020 10:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	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)	97.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/11/20 10:17	06/11/20 13:33	MGC	MS-V5	1	B080009	EPA 524.2

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

Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2016743-03	Client Sample Name: JPL, MW-4-4, 6/9/2020 10:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/11/20 10:17	06/11/20	13:33	MGC	MS-V5	1	B080009	EPA 524.2

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2016743-03		Client Sample Name: JPL, MW-4-4, 6/9/2020 10:15:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	68	mg/L	0.10	0.014	EPA-200.7	ND		1	
Total Recoverable Magnesium	23	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	39	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	2.2	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	190	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	150	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	54	mg/L	0.50	0.13	EPA-300.0	ND		3	
Nitrate as N	3.8	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	74	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	7.79	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	410	mg/L	20	10	EPA-160.1	ND	A07	5	
Nitrite as N	0.16	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	2.0	ug/L	4.0	0.81	EPA-314.0	ND	J	7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/12/20 08:15	06/12/20	13:05	JRG	PE-OP4	1	B080087	EPA 200.2
2	SM-2320B	06/15/20 12:00	06/15/20	15:25	MEV	MET-1	1	B067945	No Prep
3	EPA-300.0	06/09/20 18:00	06/10/20	03:35	SAV	IC5	1	B079867	No Prep
4	EPA-150.1	06/15/20 12:00	06/15/20	15:25	MEV	MET-1	1	B067945	No Prep
5	EPA-160.1	06/11/20 13:00	06/12/20	13:00	CAD	MANUAL	2	B080005	No Prep
6	EPA-353.2	06/09/20 22:00	06/09/20	22:09	CMM	KONE-1	1	B079995	No Prep
7	EPA-314.0	06/18/20 10:00	06/18/20	15:17	KB1	IC6	1	B080503	No Prep

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2016743-03	Client Sample Name: JPL, MW-4-4, 6/9/2020 10:15:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	0.63	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	1200	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-218.6	06/10/20 12:00	06/10/20 15:50	KB1	IC-4	1	B079927	No Prep
2	EPA-200.8	06/10/20 12:15	06/10/20 16:23	AS1	PE-EL2	1	B079929	EPA 200.2
3	EPA-200.7	06/12/20 08:15	06/12/20 13:05	JRG	PE-OP4	1	B080087	EPA 200.2

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2016743-04	Client Sample Name: JPL, MW-4-3, 6/9/2020 11:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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

Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2016743-04) and Client Sample Name (JPL, MW-4-3, 6/9/2020 11:20:00AM, Blaine Tech)

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

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Powell, OH 43065

Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2016743-04	Client Sample Name: JPL, MW-4-3, 6/9/2020 11:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/11/20 10:17	06/11/20 16:46	MGC	MS-V5	1	B080009	EPA 524.2

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2016743-04	Client Sample Name: JPL, MW-4-3, 6/9/2020 11:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/11/20 10:17	06/11/20	16:46	MGC	MS-V5	1	B080009	EPA 524.2

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2016743-04		Client Sample Name: JPL, MW-4-3, 6/9/2020 11:20:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	88	mg/L	0.10	0.014	EPA-200.7	ND		1	
Total Recoverable Magnesium	29	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	35	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	2.5	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	240	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	190	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	75	mg/L	0.50	0.13	EPA-300.0	ND		3	
Nitrate as N	3.5	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	89	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	7.83	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	490	mg/L	33	17	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	1.3	ug/L	4.0	0.81	EPA-314.0	ND	J	7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/12/20 08:15	06/12/20	13:07	JRG	PE-OP4	1	B080087	EPA 200.2
2	SM-2320B	06/15/20 12:00	06/15/20	15:33	MEV	MET-1	1	B067945	No Prep
3	EPA-300.0	06/09/20 18:00	06/10/20	03:53	SAV	IC5	1	B079867	No Prep
4	EPA-150.1	06/15/20 12:00	06/15/20	15:33	MEV	MET-1	1	B067945	No Prep
5	EPA-160.1	06/11/20 13:00	06/12/20	13:00	CAD	MANUAL	3.333	B080005	No Prep
6	EPA-353.2	06/09/20 22:00	06/09/20	22:09	CMM	KONE-1	1	B079995	No Prep
7	EPA-314.0	06/18/20 10:00	06/18/20	15:34	KB1	IC6	1	B080503	No Prep

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2016743-04	Client Sample Name: JPL, MW-4-3, 6/9/2020 11:20:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000034	mg/L	0.00020	0.000032	EPA-218.6	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	1.0	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	3600	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/10/20 12:00	06/10/20 16:19		KB1	IC-4	1	B079927	No Prep
2	EPA-200.8	06/10/20 12:15	06/10/20 16:25		AS1	PE-EL2	1	B079929	EPA 200.2
3	EPA-200.7	06/12/20 08:15	06/12/20 13:07		JRG	PE-OP4	1	B080087	EPA 200.2

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2016743-05	Client Sample Name: JPL, MW-4-2, 6/9/2020 12:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
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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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2016743-05	Client Sample Name: JPL, MW-4-2, 6/9/2020 12:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND	V11	1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	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	0.39	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	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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

Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2016743-05	Client Sample Name: JPL, MW-4-2, 6/9/2020 12:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/11/20 10:17	06/11/20 17:10	MGC	MS-V5	1	B080009	EPA 524.2

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Powell, OH 43065

Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2016743-05	Client Sample Name: JPL, MW-4-2, 6/9/2020 12:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/11/20 10:17	06/11/20	17:10	MGC	MS-V5	1	B080009	EPA 524.2

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Powell, OH 43065

Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2016743-05	Client Sample Name: JPL, MW-4-2, 6/9/2020 12:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Acenaphthylene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Aldrin	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
Aniline	ND	ug/L	5.0	0.28	EPA-8270C	ND		1
Anthracene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzidine	ND	ug/L	20	1.6	EPA-8270C	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
Benzoic acid	ND	ug/L	10	0.52	EPA-8270C	ND		1
Benzyl alcohol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
alpha-BHC	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
beta-BHC	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
delta-BHC	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
bis(2-Chloroisopropyl) ether	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
bis(2-Ethylhexyl)phthalate	ND	ug/L	4.0	0.20	EPA-8270C	ND		1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4-Chloroaniline	ND	ug/L	2.0	1.1	EPA-8270C	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Chrysene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4,4'-DDD	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
4,4'-DDE	ND	ug/L	3.0	0.24	EPA-8270C	ND		1
4,4'-DDT	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	0.34	EPA-8270C	ND		1
Dibenzofuran	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1

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Powell, OH 43065

Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2016743-05	Client Sample Name: JPL, MW-4-2, 6/9/2020 12:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	0.53	EPA-8270C	ND		1
Dieldrin	ND	ug/L	3.0	0.39	EPA-8270C	ND		1
Diethyl phthalate	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.40	EPA-8270C	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Endosulfan I	ND	ug/L	10	0.31	EPA-8270C	ND		1
Endosulfan II	ND	ug/L	10	0.30	EPA-8270C	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.23	EPA-8270C	ND		1
Endrin	ND	ug/L	2.0	0.38	EPA-8270C	ND		1
Endrin aldehyde	ND	ug/L	10	0.44	EPA-8270C	ND		1
Fluoranthene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Fluorene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Heptachlor	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
Hexachlorobenzene	ND	ug/L	2.0	0.25	EPA-8270C	ND		1
Hexachlorobutadiene	0.23	ug/L	2.0	0.20	EPA-8270C	ND	J	1
Hexachlorocyclopentadiene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
Hexachloroethane	0.23	ug/L	2.0	0.20	EPA-8270C	ND	J	1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.29	EPA-8270C	ND		1
Isophorone	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Naphthalene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2-Naphthylamine	ND	ug/L	20	1.3	EPA-8270C	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.38	EPA-8270C	ND		1
Nitrobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1

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Powell, OH 43065

Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2016743-05	Client Sample Name: JPL, MW-4-2, 6/9/2020 12:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.0	1.2	EPA-8270C	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Pyrene	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.20	EPA-8270C	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.24	EPA-8270C	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-8270C	ND		1
2-Methylphenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	0.40	EPA-8270C	ND		1
Total Methylphenol	ND	ug/L	4.0	0.60	EPA-8270C	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Pentachlorophenol	ND	ug/L	10	0.40	EPA-8270C	ND		1
Phenol	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.20	EPA-8270C	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.20	EPA-8270C	ND		1
Acetophenone	ND	ug/L	10	0.33	EPA-8270C	ND		1
2-Acetylaminofluorene	ND	ug/L	10	0.78	EPA-8270C	ND		1
Acrolein, dimethyl acetal	ND	ug/L	40	6.1	EPA-8270C	ND		1
4-Aminobiphenyl	ND	ug/L	20	0.35	EPA-8270C	ND		1
Aramite	ND	ug/L	10	0.35	EPA-8270C	ND		1
Benzaldehyde	ND	ug/L	10	2.9	EPA-8270C	ND		1
Benefin	ND	ug/L	10	0.88	EPA-8270C	ND		1
1,1-Biphenyl	ND	ug/L	10	3.6	EPA-8270C	ND		1
Caprolactam	ND	ug/L	10	3.6	EPA-8270C	ND		1
Carbazole	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
cis-Chlordane	ND	ug/L	5.0	0.59	EPA-8270C	ND		1
trans-Chlordane	ND	ug/L	5.0	0.55	EPA-8270C	ND		1

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2016743-05	Client Sample Name: JPL, MW-4-2, 6/9/2020 12:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chlorobenzilate	ND	ug/L	10	0.27	EPA-8270C	ND		1
1-Chloronaphthalene	ND	ug/L	10	0.37	EPA-8270C	ND		1
cis-Diallate	ND	ug/L	5.0	2.4	EPA-8270C	ND		1
trans-Diallate	ND	ug/L	5.0	0.56	EPA-8270C	ND		1
Diallate	ND	ug/L	10	3.0	EPA-8270C	ND		1
2,6-Dichlorophenol	ND	ug/L	10	0.28	EPA-8270C	ND		1
Dimethoate	ND	ug/L	20	0.99	EPA-8270C	ND		1
p-(Dimethylamino)azobenzene	ND	ug/L	10	0.27	EPA-8270C	ND		1
7,12-Dimethylbenz[a]anthracene	ND	ug/L	10	0.37	EPA-8270C	ND		1
3,3'-Dimethylbenzidine	ND	ug/L	20	0.42	EPA-8270C	ND		1
a,a-Dimethylphenethylamine	ND	ug/L	20	4.9	EPA-8270C	ND		1
Dimethyl sulfoxide (DMSO)	ND	ug/L	10	9.5	EPA-8270C	ND		1
1,3-Dinitrobenzene	ND	ug/L	10	0.93	EPA-8270C	ND		1
Dinoseb	ND	ug/L	10	0.91	EPA-8270C	ND		1
Diphenylamine	ND	ug/L	10	0.61	EPA-8270C	ND		1
Disulfoton	ND	ug/L	10	0.33	EPA-8270C	ND		1
Ethyl methacrylate	ND	ug/L	10	1.2	EPA-8270C	ND		1
Ethyl methanesulfonate	ND	ug/L	10	0.61	EPA-8270C	ND		1
Ethyl Parathion	ND	ug/L	10	0.53	EPA-8270C	ND		1
Famphur	ND	ug/L	20	4.1	EPA-8270C	ND		1
Hexachlorophene	ND	ug/L	200	20	EPA-8270C	ND		1
Hexachloropropene	ND	ug/L	20	0.23	EPA-8270C	ND		1
Isodrin	ND	ug/L	10	0.43	EPA-8270C	ND		1
cis-Isosafrole	ND	ug/L	5.0	0.44	EPA-8270C	ND		1
trans-Isosafrole	ND	ug/L	5.0	0.29	EPA-8270C	ND		1
Isosafrole	ND	ug/L	10	0.73	EPA-8270C	ND		1
Kepone	ND	ug/L	20	2.2	EPA-8270C	ND		1
Methapyrilene	ND	ug/L	10	2.9	EPA-8270C	ND		1
Methoxychlor	ND	ug/L	10	0.20	EPA-8270C	ND		1
3-Methylcholanthrene	ND	ug/L	10	0.31	EPA-8270C	ND		1
Methyl methacrylate	ND	ug/L	40	3.8	EPA-8270C	ND		1
Methyl methanesulfonate	ND	ug/L	10	0.40	EPA-8270C	ND		1
1-Methylnaphthalene	ND	ug/L	10	0.26	EPA-8270C	ND		1

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2016743-05	Client Sample Name: JPL, MW-4-2, 6/9/2020 12:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Methyl parathion	ND	ug/L	10	0.71	EPA-8270C	ND		1
N-Methyl-2-pyrrolidinone	ND	ug/L	10	2.5	EPA-8270C	ND		1
1,4-Naphthoquinone	ND	ug/L	20	0.87	EPA-8270C	ND		1
1-Naphthylamine	ND	ug/L	20	0.30	EPA-8270C	ND		1
5-Nitro-o-toluidine	ND	ug/L	10	0.85	EPA-8270C	ND		1
4-Nitroquinoline 1-oxide	ND	ug/L	20	0.95	EPA-8270C	ND		1
N-Nitrosodibutylamine	ND	ug/L	10	0.26	EPA-8270C	ND		1
N-Nitrosodiethylamine	ND	ug/L	10	0.55	EPA-8270C	ND		1
N-Nitrosomethylethylamine	ND	ug/L	10	0.61	EPA-8270C	ND		1
N-Nitrosomorpholine	ND	ug/L	10	0.63	EPA-8270C	ND		1
N-Nitrosopiperidine	ND	ug/L	10	0.47	EPA-8270C	ND		1
N-Nitrosopyrrolidine	ND	ug/L	10	0.39	EPA-8270C	ND		1
Pentachlorobenzene	ND	ug/L	10	0.20	EPA-8270C	ND		1
Pentachloroethane	ND	ug/L	20	0.31	EPA-8270C	ND		1
Pentachloronitrobenzene	ND	ug/L	10	0.42	EPA-8270C	ND		1
Phenacetin	ND	ug/L	10	0.75	EPA-8270C	ND		1
1,4-Phenylenediamine	ND	ug/L	20	1.1	EPA-8270C	ND		1
Phorate	ND	ug/L	10	0.35	EPA-8270C	ND		1
2-Picoline	ND	ug/L	10	1.2	EPA-8270C	ND		1
PCB-1016	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1221	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1232	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1242	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1248	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1254	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1260	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1262	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1268	ND	ug/L	50	25	EPA-8270C	ND		1
Total PCB's (Summation)	ND	ug/L	50	25	EPA-8270C	ND		1
Prometryn	ND	ug/L	10	1.7	EPA-8270C	ND		1
Pronamide	ND	ug/L	10	0.22	EPA-8270C	ND		1
Propyleneglycol monomethyl ether acetate	ND	ug/L	10	3.7	EPA-8270C	ND		1
Prowl	ND	ug/L	10	0.83	EPA-8270C	ND		1

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2016743-05	Client Sample Name: JPL, MW-4-2, 6/9/2020 12:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Pyridine	ND	ug/L	10	1.6	EPA-8270C	ND		1
Safrole	ND	ug/L	10	0.40	EPA-8270C	ND		1
Sulfotep	ND	ug/L	10	0.23	EPA-8270C	ND		1
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10	0.20	EPA-8270C	ND		1
2,3,4,5-Tetrachlorophenol	ND	ug/L	10	5.0	EPA-8270C	ND		1
2,3,4,6-Tetrachlorophenol	ND	ug/L	10	0.73	EPA-8270C	ND		1
Thionazin	ND	ug/L	10	0.38	EPA-8270C	ND		1
2-Toluidine	ND	ug/L	10	0.41	EPA-8270C	ND		1
Toxaphene	ND	ug/L	100	50	EPA-8270C	ND		1
o,o,o-Triethylphosphorothioate	ND	ug/L	10	0.44	EPA-8270C	ND		1
1,3,5-Trinitrobenzene	ND	ug/L	10	1.4	EPA-8270C	ND		1
Tris(hydroxymethyl)nitromethane	ND	ug/L	50	5.0	EPA-8270C	ND		1
2-Fluorophenol (Surrogate)	72.8	%	30 - 120 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	47.2	%	12 - 110 (LCL - UCL)		EPA-8270C			1
Nitrobenzene-d5 (Surrogate)	94.5	%	50 - 130 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	82.1	%	55 - 125 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	111	%	40 - 150 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	62.6	%	40 - 150 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8270C	06/12/20 11:00	06/16/20 23:42	MK1	MS-B2	1.042	B080194	EPA 3510C

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

BCL Sample ID: 2016743-05		Client Sample Name: JPL, MW-4-2, 6/9/2020 12:20:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1-Acetyl-2-thiourea	0	ug/L			EPA-8270C	0		1
2-Aminoanthraquinone	0	ug/L			EPA-8270C	0		1
3-Amino-9-ethylcarbazole	0	ug/L			EPA-8270C	0		1
Anilazine	0	ug/L			EPA-8270C	0		1
o-Anisidine	0	ug/L			EPA-8270C	0		1
Azinphos methyl	0	ug/L			EPA-8270C	0		1
Barban	0	ug/L			EPA-8270C	0		1
p-Benzoquinone	0	ug/L			EPA-8270C	0		1
Bromoxynil	0	ug/L			EPA-8270C	0		1
Captafol	0	ug/L			EPA-8270C	0		1
Captan	0	ug/L			EPA-8270C	0		1
Carbaryl	0	ug/L			EPA-8270C	0		1
Carbofuran	0	ug/L			EPA-8270C	0		1
Carbophenothion	0	ug/L			EPA-8270C	0		1
Chlorfenvinphos	0	ug/L			EPA-8270C	0		1
5-Chloro-2-methylaniline	0	ug/L			EPA-8270C	0		1
3-(Chloromethyl) pyridine hydrochloride	0	ug/L			EPA-8270C	0		1
4-Chloro-1,2-phenylenediamine	0	ug/L			EPA-8270C	0		1
4-Chloro-1,3-phenylenediamine	0	ug/L			EPA-8270C	0		1
Coumaphos	0	ug/L			EPA-8270C	0		1
p-Cresidine	0	ug/L			EPA-8270C	0		1
Crotoxyphos	0	ug/L			EPA-8270C	0		1
2-Cyclohexyl-4,6-dinitrophenol	0	ug/L			EPA-8270C	0		1
Demeton-O	0	ug/L			EPA-8270C	0		1
Demeton-S	0	ug/L			EPA-8270C	0		1
2,4-Diaminotoluene	0	ug/L			EPA-8270C	0		1
Dibenz[a,j]acridine	0	ug/L			EPA-8270C	0		1
Dibenzo[a,e]pyrene	0	ug/L			EPA-8270C	0		1
1,2-Dibromo-3-chloropropane	0	ug/L			EPA-8270C	0		1
Dichlone	0	ug/L			EPA-8270C	0		1
Dichlorvos	0	ug/L			EPA-8270C	0		1
Dicrotophos	0	ug/L			EPA-8270C	0		1
Diethylstilbestrol	0	ug/L			EPA-8270C	0		1

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

BCL Sample ID: 2016743-05		Client Sample Name: JPL, MW-4-2, 6/9/2020 12:20:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl sulfate	0	ug/L			EPA-8270C	0		1
Dihydrosafrole	0	ug/L			EPA-8270C	0		1
3,3'-Dimethoxybenzidine	0	ug/L			EPA-8270C	0		1
1,2-Dinitrobenzene	0	ug/L			EPA-8270C	0		1
1,4-Dinitrobenzene	0	ug/L			EPA-8270C	0		1
Dinocap	0	ug/L			EPA-8270C	0		1
Dioxathion	0	ug/L			EPA-8270C	0		1
5,5-Diphenylhydantoin	0	ug/L			EPA-8270C	0		1
Endrin ketone	0	ug/L			EPA-8270C	0		1
EPN	0	ug/L			EPA-8270C	0		1
Ethion	0	ug/L			EPA-8270C	0		1
Ethyl carbamate	0	ug/L			EPA-8270C	0		1
Fensulfothion	0	ug/L			EPA-8270C	0		1
Fenthion	0	ug/L			EPA-8270C	0		1
Fluchloralin	0	ug/L			EPA-8270C	0		1
Hexamethylphosphoramide	0	ug/L			EPA-8270C	0		1
Hydroquinone	0	ug/L			EPA-8270C	0		1
Leptophos	0	ug/L			EPA-8270C	0		1
Malathion	0	ug/L			EPA-8270C	0		1
Maleic Anhydride	0	ug/L			EPA-8270C	0		1
Mestranol	0	ug/L			EPA-8270C	0		1
4,4'-Methylenebis(2-chloroaniline)	0	ug/L			EPA-8270C	0		1
4,4'-Methylenebis[N,N-dimethylaniline]	0	ug/L			EPA-8270C	0		1
Mevinphos	0	ug/L			EPA-8270C	0		1
Mexacarbate	0	ug/L			EPA-8270C	0		1
Mirex	0	ug/L			EPA-8270C	0		1
Monocrotophos	0	ug/L			EPA-8270C	0		1
Naled	0	ug/L			EPA-8270C	0		1
Nicotine	0	ug/L			EPA-8270C	0		1
5-Nitroacenaphthene	0	ug/L			EPA-8270C	0		1
5-Nitro-o-anisidine	0	ug/L			EPA-8270C	0		1
4-Nitrobiphenyl	0	ug/L			EPA-8270C	0		1
Nitrophen	0	ug/L			EPA-8270C	0		1

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

BCL Sample ID:	2016743-05	Client Sample Name:	JPL, MW-4-2, 6/9/2020 12:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Octamethylpyrophosphoramide	0	ug/L			EPA-8270C	0		1
4,4'-Oxydianiline	0	ug/L			EPA-8270C	0		1
Phenobarbital	0	ug/L			EPA-8270C	0		1
Phosalone	0	ug/L			EPA-8270C	0		1
Phosmet	0	ug/L			EPA-8270C	0		1
Phosphamidon	0	ug/L			EPA-8270C	0		1
Phthalic anhydride	0	ug/L			EPA-8270C	0		1
Piperonyl sulfoxide	0	ug/L			EPA-8270C	0		1
Propylthiouracil	0	ug/L			EPA-8270C	0		1
Resorcinol	0	ug/L			EPA-8270C	0		1
Strychnine	0	ug/L			EPA-8270C	0		1
Sulfallate	0	ug/L			EPA-8270C	0		1
Terbufos	0	ug/L			EPA-8270C	0		1
Tetrachlorvinphos	0	ug/L			EPA-8270C	0		1
TEPP	0	ug/L			EPA-8270C	0		1
Thiophenol (Benzenethiol)	0	ug/L			EPA-8270C	0		1
Toluene 2,4-diisocyanate	0	ug/L			EPA-8270C	0		1
Trifluralin	0	ug/L			EPA-8270C	0		1
2,4,5-Trimethylaniline	0	ug/L			EPA-8270C	0		1
Trimethyl phosphate	0	ug/L			EPA-8270C	0		1
Tris(2,3-dibromopropyl) phosphate	0	ug/L			EPA-8270C	0		1
Tri-p-tolyl phosphate	0	ug/L			EPA-8270C	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8270C	06/12/20 11:00	06/16/20 23:42	MK1	MS-B2	1.042	B080194	EPA 3510C

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows 1-7 corresponding to the main analysis table.

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2016743-05	Client Sample Name: JPL, MW-4-2, 6/9/2020 12:20:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	0.86	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	590	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/10/20 12:00	06/10/20	15:02	KB1	IC-4	1	B079927	No Prep
2	EPA-200.8	06/10/20 12:15	06/10/20	16:27	AS1	PE-EL2	1	B079929	EPA 200.2
3	EPA-200.7	06/12/20 08:15	06/12/20	13:09	JRG	PE-OP4	1	B080087	EPA 200.2

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2016743-06	Client Sample Name: JPL, MW-4-1, 6/9/2020 4:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2016743-06		Client Sample Name: JPL, MW-4-1, 6/9/2020 4:00:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND	V11	1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2016743-06	Client Sample Name: JPL, MW-4-1, 6/9/2020 4:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	100	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/11/20 10:17	06/11/20 17:34	MGC	MS-V5	1	B080009	EPA 524.2

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2016743-06	Client Sample Name: JPL, MW-4-1, 6/9/2020 4:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/11/20 10:17	06/11/20 17:34		MGC	MS-V5	1	B080009	EPA 524.2

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

1,4-Dioxane (EPA Method 8270C)

BCL Sample ID: 2016743-06	Client Sample Name: JPL, MW-4-1, 6/9/2020 4:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,4-Dioxane	ND	ug/L	1.0	0.16	EPA-8270C	ND		1
Naphthalene-d8 (Surrogate)	105	%	70 - 130 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-8270C	06/16/20 09:30	06/22/20	16:18	OLH	MS-B4	0.950	B080532	EPA 3510C

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2016743-06		Client Sample Name: JPL, MW-4-1, 6/9/2020 4:00:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	46	mg/L	0.10	0.014	EPA-200.7	ND		1	
Total Recoverable Magnesium	14	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	16	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	2.4	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	180	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	140	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	11	mg/L	0.50	0.13	EPA-300.0	ND		3	
Nitrate as N	0.66	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	35	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	7.40	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	250	mg/L	20	10	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/15/20 09:45	06/15/20	15:13	JRG	PE-OP4	1	B080190	EPA 200.2
2	SM-2320B	06/15/20 12:00	06/15/20	16:18	MEV	MET-1	1	B067946	No Prep
3	EPA-300.0	06/09/20 18:00	06/10/20	02:41	SAV	IC5	1	B079867	No Prep
4	EPA-150.1	06/15/20 12:00	06/15/20	16:18	MEV	MET-1	1	B067946	No Prep
5	EPA-160.1	06/11/20 13:00	06/12/20	13:00	CAD	MANUAL	2	B080005	No Prep
6	EPA-353.2	06/09/20 22:00	06/09/20	22:09	CMM	KONE-1	1	B079995	No Prep
7	EPA-314.0	06/18/20 10:00	06/18/20	16:07	KB1	IC6	1	B080503	No Prep

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2016743-06	Client Sample Name: JPL, MW-4-1, 6/9/2020 4:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00011	mg/L	0.00020	0.000032	EPA-218.6	ND	J	1
Total Recoverable Arsenic	0.88	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	560	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/10/20 12:00	06/10/20 16:28		KB1	IC-4	1	B079927	No Prep
2	EPA-200.8	06/10/20 12:15	06/10/20 16:28		AS1	PE-EL2	1	B079929	EPA 200.2
3	EPA-200.7	06/15/20 09:45	06/15/20 15:13		JRG	PE-OP4	1	B080190	EPA 200.2

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2016743-07	Client Sample Name: JPL, EB-1-060920, 6/9/2020 3:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2016743-07	Client Sample Name: JPL, EB-1-060920, 6/9/2020 3:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND	V11	1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2016743-07	Client Sample Name: JPL, EB-1-060920, 6/9/2020 3:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	100	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/11/20 10:17	06/11/20 17:58	MGC	MS-V5	1	B080009	EPA 524.2

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Tidewater Inc. - Powell
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Powell, OH 43065

Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2016743-07	Client Sample Name: JPL, EB-1-060920, 6/9/2020 3:40:00PM, Blaine Tech
----------------------------------	--

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/11/20 10:17	06/11/20	17:58	MGC	MS-V5	1	B080009	EPA 524.2

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

Table with 10 columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows correspond to the 7 runs listed in the main table.

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2016743-07	Client Sample Name: JPL, EB-1-060920, 6/9/2020 3:40:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-218.6	06/10/20 12:00	06/10/20 16:38	KB1	IC-4	1	B079927	No Prep
2	EPA-200.8	06/10/20 12:15	06/10/20 16:30	AS1	PE-EL2	1	B079929	EPA 200.2
3	EPA-200.7	06/15/20 09:45	06/15/20 15:15	JRG	PE-OP4	1	B080190	EPA 200.2

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080009						
Benzene	B080009-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B080009-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B080009-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B080009-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B080009-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B080009-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B080009-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B080009-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B080009-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B080009-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B080009-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B080009-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B080009-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B080009-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B080009-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B080009-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B080009-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B080009-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B080009-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B080009-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B080009-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B080009-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B080009-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B080009-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B080009-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B080009-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B080009-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B080009-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B080009-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B080009-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B080009-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B080009-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B080009-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B080009-BLK1	ND	ug/L	0.50	0.14	

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Powell, OH 43065

Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080009						
trans-1,3-Dichloropropene	B080009-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B080009-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B080009-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B080009-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B080009-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B080009-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B080009-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B080009-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B080009-BLK1	ND	ug/L	0.50	0.12	
Styrene	B080009-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B080009-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2,2-Tetrachloroethane	B080009-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B080009-BLK1	ND	ug/L	0.50	0.23	
Toluene	B080009-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B080009-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B080009-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B080009-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B080009-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B080009-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B080009-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B080009-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B080009-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B080009-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B080009-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B080009-BLK1	ND	ug/L	0.50	0.18	
Acetone	B080009-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B080009-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B080009-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B080009-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B080009-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	B080009-BLK1	ND	ug/L	1.0	0.48	
trans-1,4-Dichloro-2-butene	B080009-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B080009-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B080009-BLK1	ND	ug/L	4.0	1.3	

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080009						
Ethyl t-butyl ether	B080009-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B080009-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B080009-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B080009-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B080009-BLK1	ND	ug/L	10	3.3	
Methyl iodide	B080009-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B080009-BLK1	ND	ug/L	10	2.4	
Methyl methacrylate	B080009-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B080009-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B080009-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B080009-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B080009-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B080009-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B080009-BLK1	94.8	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B080009-BLK1	98.1	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B080009-BLK1	99.8	%	80 - 120 (LCL - UCL)		

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B080009										
Benzene	B080009-BS1	LCS	22.090	25.000	ug/L	88.4		70 - 130		
Bromodichloromethane	B080009-BS1	LCS	25.140	25.000	ug/L	101		70 - 130		
Chlorobenzene	B080009-BS1	LCS	24.040	25.000	ug/L	96.2		70 - 130		
Chloroethane	B080009-BS1	LCS	23.010	25.000	ug/L	92.0		70 - 130		
1,4-Dichlorobenzene	B080009-BS1	LCS	24.320	25.000	ug/L	97.3		70 - 130		
1,1-Dichloroethane	B080009-BS1	LCS	23.490	25.000	ug/L	94.0		70 - 130		
1,1-Dichloroethene	B080009-BS1	LCS	23.980	25.000	ug/L	95.9		70 - 130		
Toluene	B080009-BS1	LCS	23.940	25.000	ug/L	95.8		70 - 130		
Trichloroethene	B080009-BS1	LCS	24.590	25.000	ug/L	98.4		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B080009-BS1	LCS	10.020	10.000	ug/L	100		75 - 125		
Toluene-d8 (Surrogate)	B080009-BS1	LCS	9.9100	10.000	ug/L	99.1		80 - 120		
4-Bromofluorobenzene (Surrogate)	B080009-BS1	LCS	10.040	10.000	ug/L	100		80 - 120		

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Control Limits Percent Recovery, Lab Quals. Includes QC Batch ID: B080009 and Used client sample: Y - Description: MW-4-4, 06/09/2020 10:15.

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080009						
Chloroacetonitrile	B080009-BLK1	0	ug/L			
1-Chlorobutane	B080009-BLK1	0	ug/L			
1,1-Dichloropropanone	B080009-BLK1	0	ug/L			
Methyl acrylate	B080009-BLK1	0	ug/L			
Nitrobenzene	B080009-BLK1	0	ug/L			
2-Nitropropane	B080009-BLK1	0	ug/L			

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080194						
Acenaphthene	B080194-BLK1	ND	ug/L	2.0	0.20	
Acenaphthylene	B080194-BLK1	ND	ug/L	2.0	0.20	
Aldrin	B080194-BLK1	ND	ug/L	2.0	0.23	
Aniline	B080194-BLK1	ND	ug/L	5.0	0.28	
Anthracene	B080194-BLK1	ND	ug/L	2.0	0.20	
Benzidine	B080194-BLK1	ND	ug/L	20	1.6	
Benzo[a]anthracene	B080194-BLK1	ND	ug/L	2.0	0.21	
Benzo[b]fluoranthene	B080194-BLK1	ND	ug/L	2.0	0.24	
Benzo[k]fluoranthene	B080194-BLK1	ND	ug/L	2.0	0.30	
Benzo[a]pyrene	B080194-BLK1	ND	ug/L	2.0	0.20	
Benzo[g,h,i]perylene	B080194-BLK1	ND	ug/L	2.0	0.33	
Benzoic acid	B080194-BLK1	ND	ug/L	10	0.52	
Benzyl alcohol	B080194-BLK1	ND	ug/L	2.0	0.20	
Benzyl butyl phthalate	B080194-BLK1	ND	ug/L	2.0	0.20	
alpha-BHC	B080194-BLK1	ND	ug/L	2.0	0.20	
beta-BHC	B080194-BLK1	ND	ug/L	2.0	0.20	
delta-BHC	B080194-BLK1	ND	ug/L	2.0	0.20	
gamma-BHC (Lindane)	B080194-BLK1	ND	ug/L	2.0	0.20	
bis(2-Chloroethoxy)methane	B080194-BLK1	ND	ug/L	2.0	0.20	
bis(2-Chloroethyl) ether	B080194-BLK1	ND	ug/L	2.0	0.31	
bis(2-Chloroisopropyl)ether	B080194-BLK1	ND	ug/L	2.0	0.20	
bis(2-Ethylhexyl)phthalate	B080194-BLK1	ND	ug/L	4.0	0.20	
4-Bromophenyl phenyl ether	B080194-BLK1	ND	ug/L	2.0	0.20	
4-Chloroaniline	B080194-BLK1	ND	ug/L	2.0	1.1	
2-Chloronaphthalene	B080194-BLK1	ND	ug/L	2.0	0.20	
4-Chlorophenyl phenyl ether	B080194-BLK1	ND	ug/L	2.0	0.20	
Chrysene	B080194-BLK1	ND	ug/L	2.0	0.20	
4,4'-DDD	B080194-BLK1	ND	ug/L	2.0	0.26	
4,4'-DDE	B080194-BLK1	ND	ug/L	3.0	0.24	
4,4'-DDT	B080194-BLK1	ND	ug/L	2.0	0.22	
Dibenzo[a,h]anthracene	B080194-BLK1	ND	ug/L	3.0	0.34	
Dibenzofuran	B080194-BLK1	ND	ug/L	2.0	0.20	
1,2-Dichlorobenzene	B080194-BLK1	ND	ug/L	2.0	0.20	
1,3-Dichlorobenzene	B080194-BLK1	ND	ug/L	2.0	0.20	

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080194						
1,4-Dichlorobenzene	B080194-BLK1	ND	ug/L	2.0	0.27	
3,3-Dichlorobenzidine	B080194-BLK1	ND	ug/L	10	0.53	
Dieldrin	B080194-BLK1	ND	ug/L	3.0	0.39	
Diethyl phthalate	B080194-BLK1	ND	ug/L	2.0	0.20	
Dimethyl phthalate	B080194-BLK1	ND	ug/L	2.0	0.20	
Di-n-butyl phthalate	B080194-BLK1	ND	ug/L	2.0	0.20	
2,4-Dinitrotoluene	B080194-BLK1	ND	ug/L	2.0	0.40	
2,6-Dinitrotoluene	B080194-BLK1	ND	ug/L	2.0	0.20	
Di-n-octyl phthalate	B080194-BLK1	ND	ug/L	2.0	0.21	
1,2-Diphenylhydrazine	B080194-BLK1	ND	ug/L	2.0	0.20	
Endosulfan I	B080194-BLK1	ND	ug/L	10	0.31	
Endosulfan II	B080194-BLK1	ND	ug/L	10	0.30	
Endosulfan sulfate	B080194-BLK1	ND	ug/L	3.0	0.23	
Endrin	B080194-BLK1	ND	ug/L	2.0	0.38	
Endrin aldehyde	B080194-BLK1	ND	ug/L	10	0.44	
Fluoranthene	B080194-BLK1	ND	ug/L	2.0	0.28	
Fluorene	B080194-BLK1	ND	ug/L	2.0	0.20	
Heptachlor	B080194-BLK1	ND	ug/L	2.0	0.20	
Heptachlor epoxide	B080194-BLK1	ND	ug/L	2.0	0.26	
Hexachlorobenzene	B080194-BLK1	ND	ug/L	2.0	0.25	
Hexachlorobutadiene	B080194-BLK1	ND	ug/L	2.0	0.20	
Hexachlorocyclopentadiene	B080194-BLK1	ND	ug/L	2.0	0.31	
Hexachloroethane	B080194-BLK1	ND	ug/L	2.0	0.20	
Indeno[1,2,3-cd]pyrene	B080194-BLK1	ND	ug/L	2.0	0.29	
Isophorone	B080194-BLK1	ND	ug/L	2.0	0.20	
2-Methylnaphthalene	B080194-BLK1	ND	ug/L	2.0	0.20	
Naphthalene	B080194-BLK1	ND	ug/L	2.0	0.20	
2-Naphthylamine	B080194-BLK1	ND	ug/L	20	1.3	
2-Nitroaniline	B080194-BLK1	ND	ug/L	2.0	0.20	
3-Nitroaniline	B080194-BLK1	ND	ug/L	2.0	0.22	
4-Nitroaniline	B080194-BLK1	ND	ug/L	5.0	0.38	
Nitrobenzene	B080194-BLK1	ND	ug/L	2.0	0.20	
N-Nitrosodimethylamine	B080194-BLK1	ND	ug/L	2.0	1.2	
N-Nitrosodi-N-propylamine	B080194-BLK1	ND	ug/L	2.0	0.21	

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Powell, OH 43065

Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080194						
N-Nitrosodiphenylamine	B080194-BLK1	ND	ug/L	2.0	0.20	
Phenanthrene	B080194-BLK1	ND	ug/L	2.0	0.20	
Pyrene	B080194-BLK1	ND	ug/L	2.0	0.22	
1,2,4-Trichlorobenzene	B080194-BLK1	ND	ug/L	2.0	0.20	
4-Chloro-3-methylphenol	B080194-BLK1	ND	ug/L	5.0	0.20	
2-Chlorophenol	B080194-BLK1	ND	ug/L	2.0	0.20	
2,4-Dichlorophenol	B080194-BLK1	ND	ug/L	2.0	0.23	
2,4-Dimethylphenol	B080194-BLK1	ND	ug/L	2.0	0.20	
4,6-Dinitro-2-methylphenol	B080194-BLK1	ND	ug/L	10	0.24	
2,4-Dinitrophenol	B080194-BLK1	ND	ug/L	10	0.20	
2-Methylphenol	B080194-BLK1	ND	ug/L	2.0	0.20	
3- & 4-Methylphenol	B080194-BLK1	ND	ug/L	2.0	0.40	
Total Methylphenol	B080194-BLK1	ND	ug/L	4.0	0.60	
2-Nitrophenol	B080194-BLK1	ND	ug/L	2.0	0.20	
4-Nitrophenol	B080194-BLK1	ND	ug/L	2.0	0.30	
Pentachlorophenol	B080194-BLK1	ND	ug/L	10	0.40	
Phenol	B080194-BLK1	ND	ug/L	2.0	0.21	
2,4,5-Trichlorophenol	B080194-BLK1	ND	ug/L	5.0	0.20	
2,4,6-Trichlorophenol	B080194-BLK1	ND	ug/L	5.0	0.20	
Acetophenone	B080194-BLK1	ND	ug/L	10	0.33	
2-Acetylaminofluorene	B080194-BLK1	ND	ug/L	10	0.78	
Acrolein, dimethyl acetal	B080194-BLK1	ND	ug/L	40	6.1	
4-Aminobiphenyl	B080194-BLK1	ND	ug/L	20	0.35	
Aramite	B080194-BLK1	ND	ug/L	10	0.35	
Benzaldehyde	B080194-BLK1	ND	ug/L	10	2.9	
Benefin	B080194-BLK1	ND	ug/L	10	0.88	
1,1-Biphenyl	B080194-BLK1	ND	ug/L	10	3.6	
Caprolactam	B080194-BLK1	ND	ug/L	10	3.6	
Carbazole	B080194-BLK1	ND	ug/L	2.0	0.20	
cis-Chlordane	B080194-BLK1	ND	ug/L	5.0	0.59	
trans-Chlordane	B080194-BLK1	ND	ug/L	5.0	0.55	
Chlorobenzilate	B080194-BLK1	ND	ug/L	10	0.27	
1-Chloronaphthalene	B080194-BLK1	ND	ug/L	10	0.37	
cis-Diallate	B080194-BLK1	ND	ug/L	5.0	2.4	

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Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080194						
trans-Diallate	B080194-BLK1	ND	ug/L	5.0	0.56	
Diallate	B080194-BLK1	ND	ug/L	10	3.0	
2,6-Dichlorophenol	B080194-BLK1	ND	ug/L	10	0.28	
Dimethoate	B080194-BLK1	ND	ug/L	20	0.99	
p-(Dimethylamino)azobenzene	B080194-BLK1	ND	ug/L	10	0.27	
7,12-Dimethylbenz[a]anthracene	B080194-BLK1	ND	ug/L	10	0.37	
3,3'-Dimethylbenzidine	B080194-BLK1	ND	ug/L	20	0.42	
a,a-Dimethylphenethylamine	B080194-BLK1	ND	ug/L	20	4.9	
Dimethyl sulfoxide (DMSO)	B080194-BLK1	ND	ug/L	10	9.5	
1,3-Dinitrobenzene	B080194-BLK1	ND	ug/L	10	0.93	
Dinoseb	B080194-BLK1	ND	ug/L	10	0.91	
Diphenylamine	B080194-BLK1	ND	ug/L	10	0.61	
Disulfoton	B080194-BLK1	ND	ug/L	10	0.33	
Ethyl methacrylate	B080194-BLK1	ND	ug/L	10	1.2	
Ethyl methanesulfonate	B080194-BLK1	ND	ug/L	10	0.61	
Ethyl Parathion	B080194-BLK1	ND	ug/L	10	0.53	
Famphur	B080194-BLK1	ND	ug/L	20	4.1	
Hexachlorophene	B080194-BLK1	ND	ug/L	200	20	
Hexachloropropene	B080194-BLK1	ND	ug/L	20	0.23	
Isodrin	B080194-BLK1	ND	ug/L	10	0.43	
cis-Isosafrole	B080194-BLK1	ND	ug/L	5.0	0.44	
trans-Isosafrole	B080194-BLK1	ND	ug/L	5.0	0.29	
Isosafrole	B080194-BLK1	ND	ug/L	10	0.73	
Kepone	B080194-BLK1	ND	ug/L	20	2.2	
Methapyrilene	B080194-BLK1	ND	ug/L	10	2.9	
Methoxychlor	B080194-BLK1	ND	ug/L	10	0.20	
3-Methylcholanthrene	B080194-BLK1	ND	ug/L	10	0.31	
Methyl methacrylate	B080194-BLK1	ND	ug/L	40	3.8	
Methyl methanesulfonate	B080194-BLK1	ND	ug/L	10	0.40	
1-Methylnaphthalene	B080194-BLK1	ND	ug/L	10	0.26	
Methyl parathion	B080194-BLK1	ND	ug/L	10	0.71	
N-Methyl-2-pyrrolidinone	B080194-BLK1	ND	ug/L	10	2.5	
1,4-Naphthoquinone	B080194-BLK1	ND	ug/L	20	0.87	
1-Naphthylamine	B080194-BLK1	ND	ug/L	20	0.30	

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Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080194						
5-Nitro-o-toluidine	B080194-BLK1	ND	ug/L	10	0.85	
4-Nitroquinoline 1-oxide	B080194-BLK1	ND	ug/L	20	0.95	
N-Nitrosodibutylamine	B080194-BLK1	ND	ug/L	10	0.26	
N-Nitrosodiethylamine	B080194-BLK1	ND	ug/L	10	0.55	
N-Nitrosomethylethylamine	B080194-BLK1	ND	ug/L	10	0.61	
N-Nitrosomorpholine	B080194-BLK1	ND	ug/L	10	0.63	
N-Nitrosopiperidine	B080194-BLK1	ND	ug/L	10	0.47	
N-Nitrosopyrrolidine	B080194-BLK1	ND	ug/L	10	0.39	
Pentachlorobenzene	B080194-BLK1	ND	ug/L	10	0.20	
Pentachloroethane	B080194-BLK1	ND	ug/L	20	0.31	
Pentachloronitrobenzene	B080194-BLK1	ND	ug/L	10	0.42	
Phenacetin	B080194-BLK1	ND	ug/L	10	0.75	
1,4-Phenylenediamine	B080194-BLK1	ND	ug/L	20	1.1	
Phorate	B080194-BLK1	ND	ug/L	10	0.35	
2-Picoline	B080194-BLK1	ND	ug/L	10	1.2	
PCB-1232	B080194-BLK1	ND	ug/L	50	25	
PCB-1268	B080194-BLK1	ND	ug/L	50	25	
PCB-1262	B080194-BLK1	ND	ug/L	50	25	
PCB-1260	B080194-BLK1	ND	ug/L	50	25	
PCB-1254	B080194-BLK1	ND	ug/L	50	25	
PCB-1242	B080194-BLK1	ND	ug/L	50	25	
PCB-1221	B080194-BLK1	ND	ug/L	50	25	
PCB-1016	B080194-BLK1	ND	ug/L	50	25	
PCB-1248	B080194-BLK1	ND	ug/L	50	25	
Total PCB's (Summation)	B080194-BLK1	ND	ug/L	50	25	
Prometryn	B080194-BLK1	ND	ug/L	10	1.7	
Pronamide	B080194-BLK1	ND	ug/L	10	0.22	
Propyleneglycol monomethyl ether acetate	B080194-BLK1	ND	ug/L	10	3.7	
Prowl	B080194-BLK1	ND	ug/L	10	0.83	
Pyridine	B080194-BLK1	ND	ug/L	10	1.6	
Safrole	B080194-BLK1	ND	ug/L	10	0.40	
Sulfotep	B080194-BLK1	ND	ug/L	10	0.23	
1,2,4,5-Tetrachlorobenzene	B080194-BLK1	ND	ug/L	10	0.20	
2,3,4,5-Tetrachlorophenol	B080194-BLK1	ND	ug/L	10	5.0	

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Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080194						
2,3,4,6-Tetrachlorophenol	B080194-BLK1	ND	ug/L	10	0.73	
Thionazin	B080194-BLK1	ND	ug/L	10	0.38	
2-Toluidine	B080194-BLK1	ND	ug/L	10	0.41	
Toxaphene	B080194-BLK1	ND	ug/L	100	50	
o,o,o-Triethylphosphorothioate	B080194-BLK1	ND	ug/L	10	0.44	
1,3,5-Trinitrobenzene	B080194-BLK1	ND	ug/L	10	1.4	
Tris(hydroxymethyl)nitromethane	B080194-BLK1	ND	ug/L	50	5.0	
2-Fluorophenol (Surrogate)	B080194-BLK1	80.3	%	30 - 120 (LCL - UCL)		
Phenol-d5 (Surrogate)	B080194-BLK1	39.9	%	12 - 110 (LCL - UCL)		
Nitrobenzene-d5 (Surrogate)	B080194-BLK1	104	%	50 - 130 (LCL - UCL)		
2-Fluorobiphenyl (Surrogate)	B080194-BLK1	88.6	%	55 - 125 (LCL - UCL)		
2,4,6-Tribromophenol (Surrogate)	B080194-BLK1	121	%	40 - 150 (LCL - UCL)		
p-Terphenyl-d14 (Surrogate)	B080194-BLK1	63.9	%	40 - 150 (LCL - UCL)		

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Laboratory Control Sample

Table with columns: Constituent, QC Sample ID, Type, Result, Spike Level, Units, Percent Recovery, RPD, Control Limits (Percent Recovery, RPD), Lab (Quals). Includes a QC Batch ID: B080194 and a list of 25 chemical constituents with their respective results and recovery percentages.

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Control Limits Percent Recovery, Lab Quals. Includes QC Batch ID: B080194 and Used client sample: N.

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: B080194		Used client sample: N								
Pyridine	MS	2016224-41	ND	ND	50.000	ug/L		0	1 - 110	Q03
	MSD	2016224-41	ND	12.338	50.000	ug/L	200	24.7	30 1 - 110	
2-Fluorophenol (Surrogate)	MS	2016224-41	ND	23.702	40.000	ug/L		59.3	30 - 120	
	MSD	2016224-41	ND	27.224	40.000	ug/L	13.8	68.1	30 - 120	
Phenol-d5 (Surrogate)	MS	2016224-41	ND	11.932	40.000	ug/L		29.8	12 - 110	
	MSD	2016224-41	ND	14.386	40.000	ug/L	18.7	36.0	12 - 110	
Nitrobenzene-d5 (Surrogate)	MS	2016224-41	ND	30.932	40.000	ug/L		77.3	50 - 130	
	MSD	2016224-41	ND	37.789	40.000	ug/L	20.0	94.5	50 - 130	
2-Fluorobiphenyl (Surrogate)	MS	2016224-41	ND	29.868	40.000	ug/L		74.7	55 - 125	
	MSD	2016224-41	ND	33.898	40.000	ug/L	12.6	84.7	55 - 125	
2,4,6-Tribromophenol (Surrogate)	MS	2016224-41	ND	42.560	40.000	ug/L		106	40 - 150	
	MSD	2016224-41	ND	46.815	40.000	ug/L	9.5	117	40 - 150	
p-Terphenyl-d14 (Surrogate)	MS	2016224-41	ND	13.044	20.000	ug/L		65.2	40 - 150	
	MSD	2016224-41	ND	16.317	20.000	ug/L	22.3	81.6	40 - 150	

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080194						
1-Acetyl-2-thiourea	B080194-BLK1	0	ug/L			
2-Aminoanthraquinone	B080194-BLK1	0	ug/L			
3-Amino-9-ethylcarbazole	B080194-BLK1	0	ug/L			
Anilazine	B080194-BLK1	0	ug/L			
o-Anisidine	B080194-BLK1	0	ug/L			
Azinphos methyl	B080194-BLK1	0	ug/L			
Barban	B080194-BLK1	0	ug/L			
p-Benzoquinone	B080194-BLK1	0	ug/L			
Bromoxynil	B080194-BLK1	0	ug/L			
Captafol	B080194-BLK1	0	ug/L			
Captan	B080194-BLK1	0	ug/L			
Carbaryl	B080194-BLK1	0	ug/L			
Carbofuran	B080194-BLK1	0	ug/L			
Carbophenothion	B080194-BLK1	0	ug/L			
Chlorfenvinphos	B080194-BLK1	0	ug/L			
5-Chloro-2-methylaniline	B080194-BLK1	0	ug/L			
3-(Chloromethyl) pyridine hydrochloride	B080194-BLK1	0	ug/L			
4-Chloro-1,2-phenylenediamine	B080194-BLK1	0	ug/L			
4-Chloro-1,3-phenylenediamine	B080194-BLK1	0	ug/L			
Coumaphos	B080194-BLK1	0	ug/L			
p-Cresidine	B080194-BLK1	0	ug/L			
Crotoxphos	B080194-BLK1	0	ug/L			
2-Cyclohexyl-4,6-dinitrophenol	B080194-BLK1	0	ug/L			
Demeton-O	B080194-BLK1	0	ug/L			
Demeton-S	B080194-BLK1	0	ug/L			
2,4-Diaminotoluene	B080194-BLK1	0	ug/L			
Dibenz[a,j]acridine	B080194-BLK1	0	ug/L			
Dibenzo[a,e]pyrene	B080194-BLK1	0	ug/L			
1,2-Dibromo-3-chloropropane	B080194-BLK1	0	ug/L			
Dichlone	B080194-BLK1	0	ug/L			
Dichlorvos	B080194-BLK1	0	ug/L			
Dicrotophos	B080194-BLK1	0	ug/L			
Diethylstilbestrol	B080194-BLK1	0	ug/L			
Diethyl sulfate	B080194-BLK1	0	ug/L			

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Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080194						
Dihydrosafrole	B080194-BLK1	0	ug/L			
3,3'-Dimethoxybenzidine	B080194-BLK1	0	ug/L			
1,2-Dinitrobenzene	B080194-BLK1	0	ug/L			
1,4-Dinitrobenzene	B080194-BLK1	0	ug/L			
Dinocap	B080194-BLK1	0	ug/L			
Dioxathion	B080194-BLK1	0	ug/L			
5,5-Diphenylhydantoin	B080194-BLK1	0	ug/L			
Endrin ketone	B080194-BLK1	0	ug/L			
EPN	B080194-BLK1	0	ug/L			
Ethion	B080194-BLK1	0	ug/L			
Ethyl carbamate	B080194-BLK1	0	ug/L			
Fensulfothion	B080194-BLK1	0	ug/L			
Fenthion	B080194-BLK1	0	ug/L			
Fluchloralin	B080194-BLK1	0	ug/L			
Hexamethylphosphoramide	B080194-BLK1	0	ug/L			
Hydroquinone	B080194-BLK1	0	ug/L			
Leptophos	B080194-BLK1	0	ug/L			
Malathion	B080194-BLK1	0	ug/L			
Maleic Anhydride	B080194-BLK1	0	ug/L			
Mestranol	B080194-BLK1	0	ug/L			
4,4'-Methylenebis(2-chloroaniline)	B080194-BLK1	0	ug/L			
4,4'-Methylenebis[N,N-dimethylaniline]	B080194-BLK1	0	ug/L			
Mevinphos	B080194-BLK1	0	ug/L			
Mexacarbate	B080194-BLK1	0	ug/L			
Mirex	B080194-BLK1	0	ug/L			
Monocrotophos	B080194-BLK1	0	ug/L			
Naled	B080194-BLK1	0	ug/L			
Nicotine	B080194-BLK1	0	ug/L			
5-Nitroacenaphthene	B080194-BLK1	0	ug/L			
5-Nitro-o-anisidine	B080194-BLK1	0	ug/L			
4-Nitrobiphenyl	B080194-BLK1	0	ug/L			
Nitrophen	B080194-BLK1	0	ug/L			
Octamethylpyrophosphoramide	B080194-BLK1	0	ug/L			
4,4'-Oxydianiline	B080194-BLK1	0	ug/L			

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

Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080194						
Phenobarbital	B080194-BLK1	0	ug/L			
Phosalone	B080194-BLK1	0	ug/L			
Phosmet	B080194-BLK1	0	ug/L			
Phosphamidon	B080194-BLK1	0	ug/L			
Phthalic anhydride	B080194-BLK1	0	ug/L			
Piperonyl sulfoxide	B080194-BLK1	0	ug/L			
Propylthiouracil	B080194-BLK1	0	ug/L			
Resorcinol	B080194-BLK1	0	ug/L			
Strychnine	B080194-BLK1	0	ug/L			
Sulfallate	B080194-BLK1	0	ug/L			
Terbufos	B080194-BLK1	0	ug/L			
Tetrachlorvinphos	B080194-BLK1	0	ug/L			
TEPP	B080194-BLK1	0	ug/L			
Thiophenol (Benzenethiol)	B080194-BLK1	0	ug/L			
Toluene 2,4-diisocyanate	B080194-BLK1	0	ug/L			
Trifluralin	B080194-BLK1	0	ug/L			
2,4,5-Trimethylaniline	B080194-BLK1	0	ug/L			
Trimethyl phosphate	B080194-BLK1	0	ug/L			
Tris(2,3-dibromopropyl) phosphate	B080194-BLK1	0	ug/L			
Tri-p-tolyl phosphate	B080194-BLK1	0	ug/L			

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Powell, OH 43065

Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

1,4-Dioxane (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080532						
1,4-Dioxane	B080532-BLK1	ND	ug/L	1.0	0.16	
Naphthalene-d8 (Surrogate)	B080532-BLK1	116	%	70 - 130 (LCL - UCL)		

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Powell, OH 43065

Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

1,4-Dioxane (EPA Method 8270C)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
QC Batch ID: B080532											
1,4-Dioxane	B080532-BS1	LCS	39.722	50.000	ug/L	79.4		70	130		
Naphthalene-d8 (Surrogate)	B080532-BS1	LCS	7.3526	8.0000	ug/L	91.9		70	130		

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Powell, OH 43065

Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

1,4-Dioxane (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: B080532		Used client sample: N								
1,4-Dioxane	MS	2016224-50	ND	39.263	50.000	ug/L		78.5		70 - 130
	MSD	2016224-50	ND	38.855	50.000	ug/L	1.0	77.7	30	70 - 130
Naphthalene-d8 (Surrogate)	MS	2016224-50	ND	8.2566	8.0000	ug/L		103		70 - 130
	MSD	2016224-50	ND	7.8185	8.0000	ug/L	5.5	97.7		70 - 130

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3761 Attucks Drive
Powell, OH 43065

Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B067945						
Bicarbonate	B067945-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B067945-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B067945-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: B067946						
Bicarbonate	B067946-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B067946-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B067946-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: B079867						
Chloride	B079867-BLK1	ND	mg/L	0.50	0.13	
Nitrate as N	B079867-BLK1	ND	mg/L	0.10	0.024	
Sulfate	B079867-BLK1	ND	mg/L	1.0	0.14	
QC Batch ID: B079995						
Nitrite as N	B079995-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: B080005						
Total Dissolved Solids @ 180 C	B080005-BLK1	ND	mg/L	6.7	3.3	
QC Batch ID: B080087						
Total Recoverable Calcium	B080087-BLK1	ND	mg/L	0.10	0.014	
Total Recoverable Magnesium	B080087-BLK1	ND	mg/L	0.050	0.019	
Total Recoverable Sodium	B080087-BLK1	ND	mg/L	0.50	0.051	
Total Recoverable Potassium	B080087-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: B080190						
Total Recoverable Calcium	B080190-BLK1	ND	mg/L	0.10	0.014	
Total Recoverable Magnesium	B080190-BLK1	ND	mg/L	0.050	0.019	
Total Recoverable Sodium	B080190-BLK1	ND	mg/L	0.50	0.051	
Total Recoverable Potassium	B080190-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: B080503						
Perchlorate	B080503-BLK1	ND	ug/L	4.0	0.81	

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Powell, OH 43065

Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits		Lab Quals
							RPD	Percent Recovery	
QC Batch ID: B067945									
Total Alkalinity as CaCO3	B067945-BS3	LCS	97.520	100.00	mg/L	97.5		90 - 110	
pH	B067945-BS2	LCS	6.9900	7.0000	pH Units	99.9		95 - 105	
QC Batch ID: B067946									
Total Alkalinity as CaCO3	B067946-BS3	LCS	93.870	100.00	mg/L	93.9		90 - 110	
pH	B067946-BS2	LCS	6.9900	7.0000	pH Units	99.9		95 - 105	
QC Batch ID: B079867									
Chloride	B079867-BS1	LCS	50.855	50.000	mg/L	102		90 - 110	
Nitrate as N	B079867-BS1	LCS	5.2930	5.0000	mg/L	106		90 - 110	
Sulfate	B079867-BS1	LCS	100.58	100.00	mg/L	101		90 - 110	
QC Batch ID: B079995									
Nitrite as N	B079995-BS1	LCS	0.52226	0.50000	mg/L	104		90 - 110	
QC Batch ID: B080005									
Total Dissolved Solids @ 180 C	B080005-BS1	LCS	590.00	586.00	mg/L	101		90 - 110	
QC Batch ID: B080087									
Total Recoverable Calcium	B080087-BS1	LCS	10.159	10.000	mg/L	102		85 - 115	
Total Recoverable Magnesium	B080087-BS1	LCS	10.200	10.000	mg/L	102		85 - 115	
Total Recoverable Sodium	B080087-BS1	LCS	10.139	10.000	mg/L	101		85 - 115	
Total Recoverable Potassium	B080087-BS1	LCS	9.6339	10.000	mg/L	96.3		85 - 115	
QC Batch ID: B080190									
Total Recoverable Calcium	B080190-BS1	LCS	10.354	10.000	mg/L	104		85 - 115	
Total Recoverable Magnesium	B080190-BS1	LCS	10.367	10.000	mg/L	104		85 - 115	
Total Recoverable Sodium	B080190-BS1	LCS	10.610	10.000	mg/L	106		85 - 115	
Total Recoverable Potassium	B080190-BS1	LCS	10.190	10.000	mg/L	102		85 - 115	
QC Batch ID: B080503									
Perchlorate	B080503-BS1	LCS	9.6830	10.000	ug/L	96.8		85 - 115	

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

Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Qualls. Includes QC Batch IDs B067945, B067946, B079867, B079995, B080005, and B080087.

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Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B080087		Used client sample: N								
Total Recoverable Potassium	DUP	2016722-01	2.2099	2.2427		mg/L	1.5		20	
	MS	2016722-01	2.2099	11.953	10.000	mg/L		97.4		75 - 125
	MSD	2016722-01	2.2099	12.134	10.000	mg/L	1.5	99.2	20	75 - 125
QC Batch ID: B080190		Used client sample: N								
Total Recoverable Calcium	DUP	2016733-02	31.009	30.497		mg/L	1.7		20	
	MS	2016733-02	31.009	40.563	10.000	mg/L		95.5		75 - 125
	MSD	2016733-02	31.009	40.694	10.000	mg/L	0.3	96.8	20	75 - 125
Total Recoverable Magnesium	DUP	2016733-02	11.530	11.386		mg/L	1.2		20	
	MS	2016733-02	11.530	22.043	10.000	mg/L		105		75 - 125
	MSD	2016733-02	11.530	21.897	10.000	mg/L	0.7	104	20	75 - 125
Total Recoverable Sodium	DUP	2016733-02	67.682	66.709		mg/L	1.4		20	
	MS	2016733-02	67.682	77.368	10.000	mg/L		96.9		75 - 125
	MSD	2016733-02	67.682	77.857	10.000	mg/L	0.6	102	20	75 - 125
Total Recoverable Potassium	DUP	2016733-02	2.0700	1.9809		mg/L	4.4		20	
	MS	2016733-02	2.0700	12.173	10.000	mg/L		101		75 - 125
	MSD	2016733-02	2.0700	12.072	10.000	mg/L	0.8	100	20	75 - 125
QC Batch ID: B080503		Used client sample: N								
Perchlorate	DUP	2017168-02	ND	ND		ug/L			15	
	MS	2017168-02	ND	9.6455	10.101	ug/L		95.5		80 - 120
	MSD	2017168-02	ND	9.1212	10.101	ug/L	5.6	90.3	15	80 - 120

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B079927						
Hexavalent Chromium	B079927-BLK1	ND	mg/L	0.00020	0.000032	
QC Batch ID: B079929						
Total Recoverable Arsenic	B079929-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B079929-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B079929-BLK1	ND	ug/L	1.0	0.10	
QC Batch ID: B080087						
Total Recoverable Iron	B080087-BLK1	ND	ug/L	50	30	
QC Batch ID: B080190						
Total Recoverable Iron	B080190-BLK1	ND	ug/L	50	30	

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B079927										
Hexavalent Chromium	B079927-BS1	LCS	0.020815	0.020000	mg/L	104		90 - 110		
QC Batch ID: B079929										
Total Recoverable Arsenic	B079929-BS1	LCS	103.66	100.00	ug/L	104		85 - 115		
Total Recoverable Chromium	B079929-BS1	LCS	41.902	40.000	ug/L	105		85 - 115		
Total Recoverable Lead	B079929-BS1	LCS	102.80	100.00	ug/L	103		85 - 115		
QC Batch ID: B080087										
Total Recoverable Iron	B080087-BS1	LCS	1061.6	1000.0	ug/L	106		85 - 115		
QC Batch ID: B080190										
Total Recoverable Iron	B080190-BS1	LCS	1069.9	1000.0	ug/L	107		85 - 115		

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Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B079927		Used client sample: Y - Description: MW-4-2, 06/09/2020 12:20								
Hexavalent Chromium	DUP	2016743-05	ND	ND		mg/L			10	
	MS	2016743-05	ND	0.020860	0.020202	mg/L		103		90 - 110
	MSD	2016743-05	ND	0.021189	0.020202	mg/L	1.6	105	10	90 - 110
QC Batch ID: B079929		Used client sample: Y - Description: MW-4-5, 06/09/2020 09:00								
Total Recoverable Arsenic	DUP	2016743-02	1.0610	ND		ug/L			20	
	MS	2016743-02	1.0610	105.05	100.00	ug/L		104		70 - 130
	MSD	2016743-02	1.0610	100.83	100.00	ug/L	4.1	99.8	20	70 - 130
Total Recoverable Chromium	DUP	2016743-02	2.4210	2.4180		ug/L	0.1		20	J
	MS	2016743-02	2.4210	41.063	40.000	ug/L		96.6		70 - 130
	MSD	2016743-02	2.4210	40.862	40.000	ug/L	0.5	96.1	20	70 - 130
Total Recoverable Lead	DUP	2016743-02	ND	ND		ug/L			20	
	MS	2016743-02	ND	95.205	100.00	ug/L		95.2		70 - 130
	MSD	2016743-02	ND	95.634	100.00	ug/L	0.4	95.6	20	70 - 130
QC Batch ID: B080087		Used client sample: N								
Total Recoverable Iron	DUP	2016722-01	30.144	32.510		ug/L	7.6		20	J
	MS	2016722-01	30.144	1090.1	1000.0	ug/L		106		75 - 125
	MSD	2016722-01	30.144	1104.6	1000.0	ug/L	1.3	107	20	75 - 125
QC Batch ID: B080190		Used client sample: N								
Total Recoverable Iron	DUP	2016733-02	74.828	75.068		ug/L	0.3		20	
	MS	2016733-02	74.828	1143.8	1000.0	ug/L		107		75 - 125
	MSD	2016733-02	74.828	1130.1	1000.0	ug/L	1.2	106	20	75 - 125

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Certificate of Analysis

FINAL REPORT

Work Orders: OF15014

Project: 2016743

Attn: Natalie Serda

Client: BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308

Report Date: 6/23/2020

Received Date: 6/13/2020

Turnaround Time: Normal

Phones: (661) 327-4911

Fax: (661) 327-1918

P.O. #:

Billing Code:

Dear Natalie Serda,

Enclosed are the results of analyses for samples received 6/13/20 with the Chain-of-Custody document. The samples were received in good condition, at 4.2 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Sample Results

Sample: 2016743-06 Sampled: 06/09/20 16:00 by Client
OF15014-01 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 1625M N-Nitrosodimethylamine	Batch ID: W0F1044 Instr: GCMS09 ND	Prepared: 05/16/20 14:39 2.0	ng/l	1	Analyst: mld 06/18/20	

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WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Quality Control Results

Nitrosamines by isotopic dilution GC/MS CI Mode

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	RPD	Limit	Qualifier
Batch: W0F1044 - EPA 3535/SPE									
Blank (W0F1044-BLK1)				Prepared: 06/16/20 Analyzed: 06/18/20					
N-Nitrosodimethylamine	ND	2.0	ng/l						
LCS (W0F1044-BS1)				Prepared: 06/16/20 Analyzed: 06/18/20					
N-Nitrosodimethylamine	1.82	2.0	ng/l	2.00		91		50-150	
LCS Dup (W0F1044-BSD1)				Prepared: 06/16/20 Analyzed: 06/18/20					
N-Nitrosodimethylamine	2.05	2.0	ng/l	2.00		103		50-150 12 50	

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WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Notes and Definitions

Item	Definition
%REC	Percent Recovery
DI	Dilution
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

Reviewed by:

Regina M. Giancola
Project Manager



ELAP-CA #1132 • EPA-UCMR #CA00211 • HW-DOH # • ISD17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047 •
NJ-DEP #CAD15 • NV-DEP #NAC 445A • SCAQMD #93LA1006

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.



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3761 Attucks Drive
Powell, OH 43065

Reported: 06/26/2020 15:04
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A07 Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
- Q02 Matrix spike precision is not within the control limits.
- Q03 Matrix spike recovery(s) was(were) 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.

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Date of Report: 06/24/2020

David Conner

Tidewater Inc. - Powell

3761 Attucks Drive

Powell, OH 43065

Client Project: 2Q20

BCL Project: JPL- GW Monitoring Wells

BCL Work Order: 2016927

Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 6/10/2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda

Client Service Rep

Stuart Buttram

Technical Director

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

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Chain of Custody Form



Required Fields

Report To: Client: Tidewater, Inc. Attn: David Connor
 Street Address: 3761 Allucks Drive City: Powell State: OH Zip: 43065
 Phone: 626 1298 5715 Fax: 614 792 2897
 Email Address: david.connor@tidewater.net
 Submission #: 20-16927

Project Description: JPL-GW Monitoring
 Project Code: 20Q20
 Sampler (s): Blaine Tech

Analysis Requested

Sample #	Sample Description	Date	Time	Matrix*
1	TB-2-061020	06/10/20	0700	W
2	MU-26-1	0800	0800	W
3	MU-26-2	0915	0915	W
4	MU-18-5	1045	1045	W
5	MU-18-3	1130	1130	W
6	MU-18-4	1230	1230	W
7	EB-2-061020	1530	1530	U

Analysis Requested

Analysis	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
VOCs EPA 524.2	X																				
TRM: Cr, Pb, As, Ca, Mg, K	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Na, Fe	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hexavalent Cr 6 - 218.6 (mg/L)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Cl, NO3, NO2, SO4, Perch.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CO3, HCO3, Alk., TDS, PH	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Orthophosphate 365.1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1,4 Dioxane 8270SIM																					
NDMA 1625M																					
PAHs, Phthalates, Phenols																					

Notes: SHORT HOLDING TIME 6HR
 CR-6 (NO3) (NO2) (P) (SS)
 DO Cl2 BOD MBAS GGT
 CHEBY DISTRIBUTION
 MATH INCL SIM
 SUB OUT

Billing: Client: Tidewater, Inc. Attn: David Connor
 Address: 3761 Allucks Drive City: Powell State: OH Zip: 43065
 Are there any tests with holding times? less than or equal to 48 hours?
 Yes No
 *Standard Turnaround = 30

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

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

Lab TAT Approval: _____ *Additional Charges May Apply

Comments: PLEASE NOTATE WHICH SAMPLES TO USE FOR QC (MISMSD)
 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: 06/10/20 Time: 1500
 2. Relinquished By: _____ Date: 06/10/20 Time: 1810
 3. Relinquished By: _____ Date: 06/10/20 Time: 1810

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

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 of 2

Submission #: 20-16927

SHIPPING INFORMATION: Fed Ex, UPS, Ontrac, Hand Delivery, BC Lab Field Service, Other. SHIPPING CONTAINER: Ice Chest, None, Box, Other. FREE LIQUID: YES, NO, W/S.

Refrigerant: Ice, Blue Ice, None, Other. Comments:

Custody Seals: Ice Chest, Containers, None. Comments:

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

COC Received: YES, NO. Emissivity: 0.98. Container: PE. Thermometer ID: 208. Date/Time: 6/10 1810. Temperature: (A) 2.6 °C / (C) 25 °C. Analyst Init: Jmm

Table with columns for Sample Containers and Sample Numbers (1-10). Rows include various sample types like OT PE UNPRES, INORGANIC CHEMICAL METALS, etc. with handwritten entries like D, E, F, G, A, ABC.

Comments: Sample Numbering Completed By: Jmm Date/Time: 6/10 2024 2024 6/10 am



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

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2016927-01	COC Number: --- Project Number: GW Monitoring Sampling Location: --- Sampling Point: TB-2-061020 Sampled By: Blaine Tech of BTST	Receive Date: 06/10/2020 18:10 Sampling Date: 06/10/2020 07:00 Sample Depth: --- Lab Matrix: Water Sample Type: Trip Blank Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-2-061020 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

2016927-02	COC Number: --- Project Number: GW Monitoring Sampling Location: --- Sampling Point: MW-26-1 Sampled By: Blaine Tech of BTST	Receive Date: 06/10/2020 18:10 Sampling Date: 06/10/2020 08:00 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-26-1 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

2016927-03	COC Number: --- Project Number: GW Monitoring Sampling Location: --- Sampling Point: MW-26-2 Sampled By: Blaine Tech of BTST	Receive Date: 06/10/2020 18:10 Sampling Date: 06/10/2020 09:15 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-26-2 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

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

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2016927-04	COC Number: --- Project Number: GW Monitoring Sampling Location: --- Sampling Point: MW-18-5 Sampled By: Blaine Tech of BTST	Receive Date: 06/10/2020 18:10 Sampling Date: 06/10/2020 10:45 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-18-5 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

2016927-05	COC Number: --- Project Number: GW Monitoring Sampling Location: --- Sampling Point: MW-18-3 Sampled By: Blaine Tech of BTST	Receive Date: 06/10/2020 18:10 Sampling Date: 06/10/2020 11:30 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-18-3 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

2016927-06	COC Number: --- Project Number: GW Monitoring Sampling Location: --- Sampling Point: MW-18-4 Sampled By: Blaine Tech of BTST	Receive Date: 06/10/2020 18:10 Sampling Date: 06/10/2020 12:30 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-18-4 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

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

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2016927-07	COC Number: --- Project Number: GW Monitoring Sampling Location: --- Sampling Point: EB-2-061020 Sampled By: Blaine Tech of BTST	Receive Date: 06/10/2020 18:10 Sampling Date: 06/10/2020 15:30 Sample Depth: --- Lab Matrix: Water Sample Type: Groundwater Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-2-061020 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

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

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2016927-01	Client Sample Name:	GW Monitoring, TB-2-061020, 6/10/2020 7:00:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1	
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1	
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1	
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1	
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1	
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1	
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	

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

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2016927-01	Client Sample Name: GW Monitoring, TB-2-061020, 6/10/2020 7:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND	V11	1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2016927-01	Client Sample Name: GW Monitoring, TB-2-061020, 6/10/2020 7:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	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)	98.0	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/11/20 10:17	06/11/20 18:22	MGC	MS-V5	1	B080009	EPA 524.2

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

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2016927-01	Client Sample Name: GW Monitoring, TB-2-061020, 6/10/2020 7:00:00AM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/11/20 10:17	06/11/20 18:22	MGC	MS-V5	1	B080009	EPA 524.2

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Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2016927-02	Client Sample Name: GW Monitoring, MW-26-1, 6/10/2020 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.30	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: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2016927-02	Client Sample Name: GW Monitoring, MW-26-1, 6/10/2020 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND	V11	1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.43	ug/L	0.50	0.23	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2016927-02	Client Sample Name: GW Monitoring, MW-26-1, 6/10/2020 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	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)	98.8	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/11/20 10:17	06/11/20 18:46	MGC	MS-V5	1	B080009	EPA 524.2

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2016927-02	Client Sample Name: GW Monitoring, MW-26-1, 6/10/2020 8:00:00AM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/11/20 10:17	06/11/20	18:46	MGC	MS-V5	1	B080009	EPA 524.2

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2016927-02		Client Sample Name: GW Monitoring, MW-26-1, 6/10/2020 8:00:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	110	mg/L	0.10	0.014	EPA-200.7	ND		1	
Total Recoverable Magnesium	38	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	34	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	3.0	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	320	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	260	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	88	mg/L	0.50	0.13	EPA-300.0	ND		3	
Nitrate as N	5.6	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	100	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	7.56	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	630	mg/L	33	17	EPA-160.1	ND	A07	5	
Nitrite as N	0.097	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	2.1	ug/L	4.0	0.81	EPA-314.0	ND	J	7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/16/20 19:55	06/17/20	13:26	JRG	PE-OP4	1	B080334	EPA 200.2
2	SM-2320B	06/16/20 08:00	06/16/20	09:40	MEV	MET-1	1	B067950	No Prep
3	EPA-300.0	06/10/20 22:00	06/11/20	02:09	SAV	IC1	1	B079982	No Prep
4	EPA-150.1	06/16/20 08:00	06/16/20	09:40	MEV	MET-1	1	B067950	No Prep
5	EPA-160.1	06/12/20 12:00	06/12/20	12:00	CAD	MANUAL	3.333	B080096	No Prep
6	EPA-353.2	06/11/20 18:00	06/11/20	18:14	CMM	KONE-1	1	B080143	No Prep
7	EPA-314.0	06/17/20 14:00	06/17/20	16:36	KB1	IC6	1	B080435	No Prep

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2016927-02	Client Sample Name: GW Monitoring, MW-26-1, 6/10/2020 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00034	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	180	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/11/20 19:00	06/11/20 22:36		KB1	IC-4	1	B080075	No Prep
2	EPA-200.8	06/12/20 08:50	06/12/20 13:18		AS1	PE-EL2	1	B080093	EPA 200.2
3	EPA-200.7	06/16/20 19:55	06/17/20 13:26		JRG	PE-OP4	1	B080334	EPA 200.2

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2016927-03	Client Sample Name: GW Monitoring, MW-26-2, 6/10/2020 9:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
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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Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2016927-03) and Client Sample Name (GW Monitoring, MW-26-2, 6/10/2020 9:15:00AM, Blaine Tech)

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

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2016927-03	Client Sample Name: GW Monitoring, MW-26-2, 6/10/2020 9:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/11/20 10:17	06/11/20 19:10	MGC	MS-V5	1	B080009	EPA 524.2

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

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2016927-03	Client Sample Name: GW Monitoring, MW-26-2, 6/10/2020 9:15:00AM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/11/20 10:17	06/11/20 19:10	MGC	MS-V5	1	B080009	EPA 524.2

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Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2016927-03	Client Sample Name: GW Monitoring, MW-26-2, 6/10/2020 9:15:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00020	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	2.1	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	240	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/11/20 19:00	06/11/20 22:46		KB1	IC-4	1	B080075	No Prep
2	EPA-200.8	06/16/20 20:20	06/17/20 14:16		AS1	PE-EL2	1	B080336	EPA 200.2
3	EPA-200.7	06/16/20 19:55	06/17/20 13:28		JRG	PE-OP4	1	B080334	EPA 200.2

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2016927-04	Client Sample Name: GW Monitoring, MW-18-5, 6/10/2020 10:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2016927-04	Client Sample Name: GW Monitoring, MW-18-5, 6/10/2020 10:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND	V11	1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	0.12	ug/L	0.50	0.12	EPA-524.2	ND	J	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	0.79	ug/L	1.0	0.48	EPA-524.2	ND	J	1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2016927-04	Client Sample Name: GW Monitoring, MW-18-5, 6/10/2020 10:45:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/11/20 10:17	06/11/20 19:34	MGC	MS-V5	1	B080009	EPA 524.2

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Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2016927-04	Client Sample Name: GW Monitoring, MW-18-5, 6/10/2020 10:45:00AM, Blaine Tech
----------------------------------	--

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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/11/20 10:17	06/11/20 19:34	MGC	MS-V5	1	B080009	EPA 524.2

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2016927-04	Client Sample Name: GW Monitoring, MW-18-5, 6/10/2020 10:45:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000047	mg/L	0.00020	0.000032	EPA-218.6	ND	J	1
Total Recoverable Arsenic	3.4	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	38	ug/L	50	30	EPA-200.7	ND	J	3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/11/20 19:00	06/11/20 22:55		KB1	IC-4	1	B080075	No Prep
2	EPA-200.8	06/16/20 20:20	06/17/20 14:17		AS1	PE-EL2	1	B080336	EPA 200.2
3	EPA-200.7	06/16/20 19:55	06/17/20 13:30		JRG	PE-OP4	1	B080334	EPA 200.2

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2016927-05	Client Sample Name: GW Monitoring, MW-18-3, 6/10/2020 11:30:00AM, Blaine Tech
----------------------------------	--

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

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Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2016927-05	Client Sample Name: GW Monitoring, MW-18-3, 6/10/2020 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND	V11	1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2016927-05	Client Sample Name: GW Monitoring, MW-18-3, 6/10/2020 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	100	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/11/20 10:17	06/11/20 19:59	MGC	MS-V5	1	B080009	EPA 524.2

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2016927-05	Client Sample Name: GW Monitoring, MW-18-3, 6/10/2020 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/11/20 10:17	06/11/20	19:59	MGC	MS-V5	1	B080009	EPA 524.2

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2016927-05		Client Sample Name: GW Monitoring, MW-18-3, 6/10/2020 11:30:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	60	mg/L	0.10	0.014	EPA-200.7	ND		1	
Total Recoverable Magnesium	16	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	22	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	2.6	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	240	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	200	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	17	mg/L	0.50	0.13	EPA-300.0	ND		3	
Nitrate as N	0.82	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	36	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	7.92	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	330	mg/L	20	10	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	1.4	ug/L	4.0	0.76	EPA-314.0	ND	J	7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/16/20 19:55	06/17/20 13:32		JRG	PE-OP4	1	B080334	EPA 200.2
2	SM-2320B	06/16/20 08:00	06/16/20 10:04		MEV	MET-1	1	B067950	No Prep
3	EPA-300.0	06/10/20 22:00	06/11/20 02:51		SAV	IC1	1	B079982	No Prep
4	EPA-150.1	06/16/20 08:00	06/16/20 10:04		MEV	MET-1	1	B067950	No Prep
5	EPA-160.1	06/12/20 12:00	06/12/20 12:00		CAD	MANUAL	2	B080096	No Prep
6	EPA-353.2	06/11/20 18:00	06/11/20 18:15		CMM	KONE-1	1	B080143	No Prep
7	EPA-314.0	06/17/20 14:00	06/17/20 18:49		KB1	IC6	1	B080435	No Prep

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2016927-05	Client Sample Name: GW Monitoring, MW-18-3, 6/10/2020 11:30:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0016	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	1.4	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	1.2	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	48	ug/L	50	30	EPA-200.7	ND	J	3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/11/20 19:00	06/11/20 23:05		KB1	IC-4	1	B080075	No Prep
2	EPA-200.8	06/16/20 20:20	06/17/20 14:19		AS1	PE-EL2	1	B080336	EPA 200.2
3	EPA-200.7	06/16/20 19:55	06/17/20 13:32		JRG	PE-OP4	1	B080334	EPA 200.2

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2016927-06	Client Sample Name: GW Monitoring, MW-18-4, 6/10/2020 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	1.1	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/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: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2016927-06	Client Sample Name: GW Monitoring, MW-18-4, 6/10/2020 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND	V11	1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	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	0.67	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	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2016927-06	Client Sample Name: GW Monitoring, MW-18-4, 6/10/2020 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/11/20 10:17	06/11/20 20:23	MGC	MS-V5	1	B080009	EPA 524.2

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2016927-06	Client Sample Name: GW Monitoring, MW-18-4, 6/10/2020 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/11/20 10:17	06/11/20	20:23	MGC	MS-V5	1	B080009	EPA 524.2

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

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2016927-06		Client Sample Name: GW Monitoring, MW-18-4, 6/10/2020 12:30:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Acenaphthylene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Aldrin	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
Aniline	ND	ug/L	5.0	0.28	EPA-8270C	ND		1
Anthracene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzidine	ND	ug/L	20	1.6	EPA-8270C	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
Benzoic acid	ND	ug/L	10	0.52	EPA-8270C	ND		1
Benzyl alcohol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
alpha-BHC	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
beta-BHC	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
delta-BHC	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
bis(2-Chloroisopropyl) ether	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
bis(2-Ethylhexyl)phthalate	ND	ug/L	4.0	0.20	EPA-8270C	ND		1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4-Chloroaniline	ND	ug/L	2.0	1.1	EPA-8270C	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Chrysene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4,4'-DDD	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
4,4'-DDE	ND	ug/L	3.0	0.24	EPA-8270C	ND		1
4,4'-DDT	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	0.34	EPA-8270C	ND		1
Dibenzofuran	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1

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

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	2016927-06	Client Sample Name:	GW Monitoring, MW-18-4, 6/10/2020 12:30:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
1,3-Dichlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1	
1,4-Dichlorobenzene	ND	ug/L	2.0	0.27	EPA-8270C	ND		1	
3,3-Dichlorobenzidine	ND	ug/L	10	0.53	EPA-8270C	ND		1	
Dieldrin	ND	ug/L	3.0	0.39	EPA-8270C	ND		1	
Diethyl phthalate	ND	ug/L	2.0	0.20	EPA-8270C	ND		1	
Dimethyl phthalate	ND	ug/L	2.0	0.20	EPA-8270C	ND		1	
Di-n-butyl phthalate	ND	ug/L	2.0	0.20	EPA-8270C	ND		1	
2,4-Dinitrotoluene	ND	ug/L	2.0	0.40	EPA-8270C	ND		1	
2,6-Dinitrotoluene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1	
Di-n-octyl phthalate	ND	ug/L	2.0	0.21	EPA-8270C	ND		1	
1,2-Diphenylhydrazine	ND	ug/L	2.0	0.20	EPA-8270C	ND		1	
Endosulfan I	ND	ug/L	10	0.31	EPA-8270C	ND		1	
Endosulfan II	ND	ug/L	10	0.30	EPA-8270C	ND		1	
Endosulfan sulfate	ND	ug/L	3.0	0.23	EPA-8270C	ND		1	
Endrin	ND	ug/L	2.0	0.38	EPA-8270C	ND		1	
Endrin aldehyde	ND	ug/L	10	0.44	EPA-8270C	ND		1	
Fluoranthene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1	
Fluorene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1	
Heptachlor	ND	ug/L	2.0	0.20	EPA-8270C	ND		1	
Heptachlor epoxide	ND	ug/L	2.0	0.26	EPA-8270C	ND		1	
Hexachlorobenzene	ND	ug/L	2.0	0.25	EPA-8270C	ND		1	
Hexachlorobutadiene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1	
Hexachlorocyclopentadiene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1	
Hexachloroethane	ND	ug/L	2.0	0.20	EPA-8270C	ND		1	
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.29	EPA-8270C	ND		1	
Isophorone	ND	ug/L	2.0	0.20	EPA-8270C	ND		1	
2-Methylnaphthalene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1	
Naphthalene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1	
2-Naphthylamine	ND	ug/L	20	1.3	EPA-8270C	ND		1	
2-Nitroaniline	ND	ug/L	2.0	0.20	EPA-8270C	ND		1	
3-Nitroaniline	ND	ug/L	2.0	0.22	EPA-8270C	ND		1	
4-Nitroaniline	ND	ug/L	5.0	0.38	EPA-8270C	ND		1	
Nitrobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1	

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Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2016927-06		Client Sample Name: GW Monitoring, MW-18-4, 6/10/2020 12:30:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.0	1.2	EPA-8270C	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Pyrene	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.20	EPA-8270C	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.24	EPA-8270C	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-8270C	ND		1
2-Methylphenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	0.40	EPA-8270C	ND		1
Total Methylphenol	ND	ug/L	4.0	0.60	EPA-8270C	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Pentachlorophenol	ND	ug/L	10	0.40	EPA-8270C	ND		1
Phenol	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.20	EPA-8270C	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.20	EPA-8270C	ND		1
Acetophenone	ND	ug/L	10	0.33	EPA-8270C	ND		1
2-Acetylaminofluorene	ND	ug/L	10	0.78	EPA-8270C	ND		1
Acrolein, dimethyl acetal	ND	ug/L	40	6.1	EPA-8270C	ND		1
4-Aminobiphenyl	ND	ug/L	20	0.35	EPA-8270C	ND		1
Aramite	ND	ug/L	10	0.35	EPA-8270C	ND		1
Benzaldehyde	ND	ug/L	10	2.9	EPA-8270C	ND		1
Benefin	ND	ug/L	10	0.88	EPA-8270C	ND		1
1,1-Biphenyl	ND	ug/L	10	3.6	EPA-8270C	ND		1
Caprolactam	ND	ug/L	10	3.6	EPA-8270C	ND		1
Carbazole	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
cis-Chlordane	ND	ug/L	5.0	0.59	EPA-8270C	ND		1
trans-Chlordane	ND	ug/L	5.0	0.55	EPA-8270C	ND		1

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Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2016927-06		Client Sample Name: GW Monitoring, MW-18-4, 6/10/2020 12:30:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chlorobenzilate	ND	ug/L	10	0.27	EPA-8270C	ND		1
1-Chloronaphthalene	ND	ug/L	10	0.37	EPA-8270C	ND		1
cis-Diallate	ND	ug/L	5.0	2.4	EPA-8270C	ND		1
trans-Diallate	ND	ug/L	5.0	0.56	EPA-8270C	ND		1
Diallate	ND	ug/L	10	3.0	EPA-8270C	ND		1
2,6-Dichlorophenol	ND	ug/L	10	0.28	EPA-8270C	ND		1
Dimethoate	ND	ug/L	20	0.99	EPA-8270C	ND		1
p-(Dimethylamino)azobenzene	ND	ug/L	10	0.27	EPA-8270C	ND		1
7,12-Dimethylbenz[a]anthracene	ND	ug/L	10	0.37	EPA-8270C	ND		1
3,3'-Dimethylbenzidine	ND	ug/L	20	0.42	EPA-8270C	ND		1
a,a-Dimethylphenethylamine	ND	ug/L	20	4.9	EPA-8270C	ND		1
Dimethyl sulfoxide (DMSO)	ND	ug/L	10	9.5	EPA-8270C	ND		1
1,3-Dinitrobenzene	ND	ug/L	10	0.93	EPA-8270C	ND		1
Dinoseb	ND	ug/L	10	0.91	EPA-8270C	ND		1
Diphenylamine	ND	ug/L	10	0.61	EPA-8270C	ND		1
Disulfoton	ND	ug/L	10	0.33	EPA-8270C	ND		1
Ethyl methacrylate	ND	ug/L	10	1.2	EPA-8270C	ND		1
Ethyl methanesulfonate	ND	ug/L	10	0.61	EPA-8270C	ND		1
Ethyl Parathion	ND	ug/L	10	0.53	EPA-8270C	ND		1
Famphur	ND	ug/L	20	4.1	EPA-8270C	ND		1
Hexachlorophene	ND	ug/L	200	20	EPA-8270C	ND		1
Hexachloropropene	ND	ug/L	20	0.23	EPA-8270C	ND		1
Isodrin	ND	ug/L	10	0.43	EPA-8270C	ND		1
cis-Isosafrole	ND	ug/L	5.0	0.44	EPA-8270C	ND		1
trans-Isosafrole	ND	ug/L	5.0	0.29	EPA-8270C	ND		1
Isosafrole	ND	ug/L	10	0.73	EPA-8270C	ND		1
Kepone	ND	ug/L	20	2.2	EPA-8270C	ND		1
Methapyrilene	ND	ug/L	10	2.9	EPA-8270C	ND		1
Methoxychlor	ND	ug/L	10	0.20	EPA-8270C	ND		1
3-Methylcholanthrene	ND	ug/L	10	0.31	EPA-8270C	ND		1
Methyl methacrylate	ND	ug/L	40	3.8	EPA-8270C	ND		1
Methyl methanesulfonate	ND	ug/L	10	0.40	EPA-8270C	ND		1
1-Methylnaphthalene	ND	ug/L	10	0.26	EPA-8270C	ND		1

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Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	2016927-06	Client Sample Name:	GW Monitoring, MW-18-4, 6/10/2020 12:30:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Methyl parathion	ND	ug/L	10	0.71	EPA-8270C	ND		1	
N-Methyl-2-pyrrolidinone	ND	ug/L	10	2.5	EPA-8270C	ND		1	
1,4-Naphthoquinone	ND	ug/L	20	0.87	EPA-8270C	ND		1	
1-Naphthylamine	ND	ug/L	20	0.30	EPA-8270C	ND		1	
5-Nitro-o-toluidine	ND	ug/L	10	0.85	EPA-8270C	ND		1	
4-Nitroquinoline 1-oxide	ND	ug/L	20	0.95	EPA-8270C	ND		1	
N-Nitrosodibutylamine	ND	ug/L	10	0.26	EPA-8270C	ND		1	
N-Nitrosodiethylamine	ND	ug/L	10	0.55	EPA-8270C	ND		1	
N-Nitrosomethylethylamine	ND	ug/L	10	0.61	EPA-8270C	ND		1	
N-Nitrosomorpholine	ND	ug/L	10	0.63	EPA-8270C	ND		1	
N-Nitrosopiperidine	ND	ug/L	10	0.47	EPA-8270C	ND		1	
N-Nitrosopyrrolidine	ND	ug/L	10	0.39	EPA-8270C	ND		1	
Pentachlorobenzene	ND	ug/L	10	0.20	EPA-8270C	ND		1	
Pentachloroethane	ND	ug/L	20	0.31	EPA-8270C	ND		1	
Pentachloronitrobenzene	ND	ug/L	10	0.42	EPA-8270C	ND		1	
Phenacetin	ND	ug/L	10	0.75	EPA-8270C	ND		1	
1,4-Phenylenediamine	ND	ug/L	20	1.1	EPA-8270C	ND		1	
Phorate	ND	ug/L	10	0.35	EPA-8270C	ND		1	
2-Picoline	ND	ug/L	10	1.2	EPA-8270C	ND		1	
PCB-1016	ND	ug/L	50	25	EPA-8270C	ND		1	
PCB-1221	ND	ug/L	50	25	EPA-8270C	ND		1	
PCB-1232	ND	ug/L	50	25	EPA-8270C	ND		1	
PCB-1242	ND	ug/L	50	25	EPA-8270C	ND		1	
PCB-1248	ND	ug/L	50	25	EPA-8270C	ND		1	
PCB-1254	ND	ug/L	50	25	EPA-8270C	ND		1	
PCB-1260	ND	ug/L	50	25	EPA-8270C	ND		1	
PCB-1262	ND	ug/L	50	25	EPA-8270C	ND		1	
PCB-1268	ND	ug/L	50	25	EPA-8270C	ND		1	
Total PCB's (Summation)	ND	ug/L	50	25	EPA-8270C	ND		1	
Prometryn	ND	ug/L	10	1.7	EPA-8270C	ND		1	
Pronamide	ND	ug/L	10	0.22	EPA-8270C	ND		1	
Propyleneglycol monomethyl ether acetate	ND	ug/L	10	3.7	EPA-8270C	ND		1	
Prowl	ND	ug/L	10	0.83	EPA-8270C	ND		1	

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3761 Attucks Drive
Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2016927-06	Client Sample Name: GW Monitoring, MW-18-4, 6/10/2020 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Pyridine	ND	ug/L	10	1.6	EPA-8270C	ND		1
Safrole	ND	ug/L	10	0.40	EPA-8270C	ND		1
Sulfotep	ND	ug/L	10	0.23	EPA-8270C	ND		1
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10	0.20	EPA-8270C	ND		1
2,3,4,5-Tetrachlorophenol	ND	ug/L	10	5.0	EPA-8270C	ND		1
2,3,4,6-Tetrachlorophenol	ND	ug/L	10	0.73	EPA-8270C	ND		1
Thionazin	ND	ug/L	10	0.38	EPA-8270C	ND		1
2-Toluidine	ND	ug/L	10	0.41	EPA-8270C	ND		1
Toxaphene	ND	ug/L	100	50	EPA-8270C	ND		1
o,o,o-Triethylphosphorothioate	ND	ug/L	10	0.44	EPA-8270C	ND		1
1,3,5-Trinitrobenzene	ND	ug/L	10	1.4	EPA-8270C	ND		1
Tris(hydroxymethyl)nitromethane	ND	ug/L	50	5.0	EPA-8270C	ND		1
2-Fluorophenol (Surrogate)	62.3	%	30 - 120 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	32.9	%	12 - 110 (LCL - UCL)		EPA-8270C			1
Nitrobenzene-d5 (Surrogate)	83.6	%	50 - 130 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	68.8	%	55 - 125 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	96.6	%	40 - 150 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	62.5	%	40 - 150 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8270C	06/12/20 11:00	06/17/20 00:09	MK1	MS-B2	1.092	B080194	EPA 3510C

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Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

BCL Sample ID: 2016927-06		Client Sample Name: GW Monitoring, MW-18-4, 6/10/2020 12:30:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1-Acetyl-2-thiourea	0	ug/L			EPA-8270C	0		1
2-Aminoanthraquinone	0	ug/L			EPA-8270C	0		1
3-Amino-9-ethylcarbazole	0	ug/L			EPA-8270C	0		1
Anilazine	0	ug/L			EPA-8270C	0		1
o-Anisidine	0	ug/L			EPA-8270C	0		1
Azinphos methyl	0	ug/L			EPA-8270C	0		1
Barban	0	ug/L			EPA-8270C	0		1
p-Benzoquinone	0	ug/L			EPA-8270C	0		1
Bromoxynil	0	ug/L			EPA-8270C	0		1
Captafol	0	ug/L			EPA-8270C	0		1
Captan	0	ug/L			EPA-8270C	0		1
Carbaryl	0	ug/L			EPA-8270C	0		1
Carbofuran	0	ug/L			EPA-8270C	0		1
Carbophenothion	0	ug/L			EPA-8270C	0		1
Chlorfenvinphos	0	ug/L			EPA-8270C	0		1
5-Chloro-2-methylaniline	0	ug/L			EPA-8270C	0		1
3-(Chloromethyl) pyridine hydrochloride	0	ug/L			EPA-8270C	0		1
4-Chloro-1,2-phenylenediamine	0	ug/L			EPA-8270C	0		1
4-Chloro-1,3-phenylenediamine	0	ug/L			EPA-8270C	0		1
Coumaphos	0	ug/L			EPA-8270C	0		1
p-Cresidine	0	ug/L			EPA-8270C	0		1
Crotoxyphos	0	ug/L			EPA-8270C	0		1
2-Cyclohexyl-4,6-dinitrophenol	0	ug/L			EPA-8270C	0		1
Demeton-O	0	ug/L			EPA-8270C	0		1
Demeton-S	0	ug/L			EPA-8270C	0		1
2,4-Diaminotoluene	0	ug/L			EPA-8270C	0		1
Dibenz[a,j]acridine	0	ug/L			EPA-8270C	0		1
Dibenzo[a,e]pyrene	0	ug/L			EPA-8270C	0		1
1,2-Dibromo-3-chloropropane	0	ug/L			EPA-8270C	0		1
Dichlone	0	ug/L			EPA-8270C	0		1
Dichlorvos	0	ug/L			EPA-8270C	0		1
Dicrotophos	0	ug/L			EPA-8270C	0		1
Diethylstilbestrol	0	ug/L			EPA-8270C	0		1

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Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

BCL Sample ID: 2016927-06	Client Sample Name: GW Monitoring, MW-18-4, 6/10/2020 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl sulfate	0	ug/L			EPA-8270C	0		1
Dihydrosafrole	0	ug/L			EPA-8270C	0		1
3,3'-Dimethoxybenzidine	0	ug/L			EPA-8270C	0		1
1,2-Dinitrobenzene	0	ug/L			EPA-8270C	0		1
1,4-Dinitrobenzene	0	ug/L			EPA-8270C	0		1
Dinocap	0	ug/L			EPA-8270C	0		1
Dioxathion	0	ug/L			EPA-8270C	0		1
5,5-Diphenylhydantoin	0	ug/L			EPA-8270C	0		1
Endrin ketone	0	ug/L			EPA-8270C	0		1
EPN	0	ug/L			EPA-8270C	0		1
Ethion	0	ug/L			EPA-8270C	0		1
Ethyl carbamate	0	ug/L			EPA-8270C	0		1
Fensulfothion	0	ug/L			EPA-8270C	0		1
Fenthion	0	ug/L			EPA-8270C	0		1
Fluchloralin	0	ug/L			EPA-8270C	0		1
Hexamethylphosphoramide	0	ug/L			EPA-8270C	0		1
Hydroquinone	0	ug/L			EPA-8270C	0		1
Leptophos	0	ug/L			EPA-8270C	0		1
Malathion	0	ug/L			EPA-8270C	0		1
Maleic Anhydride	0	ug/L			EPA-8270C	0		1
Mestranol	0	ug/L			EPA-8270C	0		1
4,4'-Methylenebis(2-chloroaniline)	0	ug/L			EPA-8270C	0		1
4,4'-Methylenebis[N,N-dimethylaniline]	0	ug/L			EPA-8270C	0		1
Mevinphos	0	ug/L			EPA-8270C	0		1
Mexacarbate	0	ug/L			EPA-8270C	0		1
Mirex	0	ug/L			EPA-8270C	0		1
Monocrotophos	0	ug/L			EPA-8270C	0		1
Naled	0	ug/L			EPA-8270C	0		1
Nicotine	0	ug/L			EPA-8270C	0		1
5-Nitroacenaphthene	0	ug/L			EPA-8270C	0		1
5-Nitro-o-anisidine	0	ug/L			EPA-8270C	0		1
4-Nitrobiphenyl	0	ug/L			EPA-8270C	0		1
Nitrophen	0	ug/L			EPA-8270C	0		1

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

Table with 2 columns: BCL Sample ID (2016927-06) and Client Sample Name (GW Monitoring, MW-18-4, 6/10/2020 12:30:00PM, Blaine Tech)

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

QC table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, Batch ID, Prep Method. Contains one row of QC data.

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2016927-06		Client Sample Name: GW Monitoring, MW-18-4, 6/10/2020 12:30:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	38	mg/L	0.10	0.014	EPA-200.7	ND		1	
Total Recoverable Magnesium	10	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	29	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	1.2	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	200	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	160	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	10	mg/L	0.50	0.13	EPA-300.0	ND		3	
Nitrate as N	1.2	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	23	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	8.01	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	260	mg/L	20	10	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	16	ug/L	4.0	0.76	EPA-314.0	ND		7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/16/20 19:55	06/17/20 13:35		JRG	PE-OP4	1	B080334	EPA 200.2
2	SM-2320B	06/16/20 08:00	06/16/20 10:12		MEV	MET-1	1	B067950	No Prep
3	EPA-300.0	06/10/20 22:00	06/11/20 03:12		SAV	IC1	1	B079982	No Prep
4	EPA-150.1	06/16/20 08:00	06/16/20 10:12		MEV	MET-1	1	B067950	No Prep
5	EPA-160.1	06/12/20 12:00	06/12/20 12:00		CAD	MANUAL	2	B080096	No Prep
6	EPA-353.2	06/11/20 18:00	06/11/20 18:15		CMM	KONE-1	1	B080143	No Prep
7	EPA-314.0	06/17/20 14:00	06/17/20 19:05		KB1	IC6	1	B080435	No Prep

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2016927-06		Client Sample Name: GW Monitoring, MW-18-4, 6/10/2020 12:30:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Hexavalent Chromium	0.0028	mg/L	0.00020	0.000032	EPA-218.6	ND		1	
Total Recoverable Arsenic	2.1	ug/L	2.0	0.70	EPA-200.8	ND		2	
Total Recoverable Chromium	2.4	ug/L	3.0	0.50	EPA-200.8	ND	J	2	
Total Recoverable Iron	74	ug/L	50	30	EPA-200.7	ND		3	
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/11/20 19:00	06/11/20	23:14	SAV	IC-4	1	B080075	No Prep
2	EPA-200.8	06/16/20 20:20	06/17/20	14:21	AS1	PE-EL2	1	B080336	EPA 200.2
3	EPA-200.7	06/16/20 19:55	06/17/20	13:35	JRG	PE-OP4	1	B080334	EPA 200.2

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2016927-07	Client Sample Name: GW Monitoring, EB-2-061020, 6/10/2020 3:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2016927-07 Client Sample Name: GW Monitoring, EB-2-061020, 6/10/2020 3:30:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND	V11	1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2016927-07	Client Sample Name: GW Monitoring, EB-2-061020, 6/10/2020 3:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/11/20 10:17	06/11/20 20:47	MGC	MS-V5	1	B080009	EPA 524.2

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2016927-07	Client Sample Name: GW Monitoring, EB-2-061020, 6/10/2020 3:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/11/20 10:17	06/11/20	20:47	MGC	MS-V5	1	B080009	EPA 524.2

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2016927-07		Client Sample Name: GW Monitoring, EB-2-061020, 6/10/2020 3:30:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	0.037	mg/L	0.10	0.014	EPA-200.7	ND	J	1
Total Recoverable Magnesium	ND	mg/L	0.050	0.019	EPA-200.7	ND		1
Total Recoverable Sodium	0.073	mg/L	0.50	0.051	EPA-200.7	ND	J	1
Total Recoverable Potassium	ND	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	ND	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	ND	mg/L	0.50	0.13	EPA-300.0	ND		3
Nitrate as N	ND	mg/L	0.10	0.024	EPA-300.0	ND		3
Sulfate	ND	mg/L	1.0	0.14	EPA-300.0	ND		3
pH	4.44	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	3.3	mg/L	6.7	3.3	EPA-160.1	ND	J	5
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6
Perchlorate	ND	ug/L	4.0	0.76	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/16/20 19:55	06/17/20	12:03	JRG	PE-OP4	1	B080335	EPA 200.2
2	SM-2320B	06/16/20 08:00	06/16/20	10:20	MEV	MET-1	1	B067950	No Prep
3	EPA-300.0	06/10/20 22:00	06/11/20	04:15	SAV	IC1	1	B079982	No Prep
4	EPA-150.1	06/16/20 08:00	06/16/20	10:20	MEV	MET-1	1	B067950	No Prep
5	EPA-160.1	06/12/20 12:00	06/12/20	12:00	CAD	MANUAL	0.667	B080096	No Prep
6	EPA-353.2	06/11/20 18:00	06/11/20	18:18	CMM	KONE-1	1	B080143	No Prep
7	EPA-314.0	06/17/20 14:00	06/17/20	19:22	KB1	IC6	1	B080435	No Prep

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2016927-07	Client Sample Name: GW Monitoring, EB-2-061020, 6/10/2020 3:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000062	mg/L	0.00020	0.000032	EPA-218.6	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/11/20 19:00	06/11/20	23:24	SAV	IC-4	1	B080075	No Prep
2	EPA-200.8	06/16/20 20:20	06/18/20	18:33	AS1	PE-EL4	1	B080337	EPA 200.2
3	EPA-200.7	06/16/20 19:55	06/17/20	12:03	JRG	PE-OP4	1	B080335	EPA 200.2

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080009						
Benzene	B080009-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B080009-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B080009-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B080009-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B080009-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B080009-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B080009-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B080009-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B080009-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B080009-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B080009-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B080009-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B080009-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B080009-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B080009-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B080009-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B080009-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B080009-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B080009-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B080009-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B080009-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B080009-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B080009-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B080009-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B080009-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B080009-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B080009-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B080009-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B080009-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B080009-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B080009-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B080009-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B080009-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B080009-BLK1	ND	ug/L	0.50	0.14	

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080009						
trans-1,3-Dichloropropene	B080009-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B080009-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B080009-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B080009-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B080009-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B080009-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B080009-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B080009-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B080009-BLK1	ND	ug/L	0.50	0.12	
Styrene	B080009-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B080009-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2,2-Tetrachloroethane	B080009-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B080009-BLK1	ND	ug/L	0.50	0.23	
Toluene	B080009-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B080009-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B080009-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B080009-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B080009-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B080009-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B080009-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B080009-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B080009-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B080009-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B080009-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B080009-BLK1	ND	ug/L	0.50	0.18	
Acetone	B080009-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B080009-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B080009-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B080009-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B080009-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	B080009-BLK1	ND	ug/L	1.0	0.48	
trans-1,4-Dichloro-2-butene	B080009-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B080009-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B080009-BLK1	ND	ug/L	4.0	1.3	

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080009						
Ethyl t-butyl ether	B080009-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B080009-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B080009-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B080009-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B080009-BLK1	ND	ug/L	10	3.3	
Methyl iodide	B080009-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B080009-BLK1	ND	ug/L	10	2.4	
Methyl methacrylate	B080009-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B080009-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B080009-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B080009-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B080009-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B080009-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B080009-BLK1	94.8	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B080009-BLK1	98.1	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B080009-BLK1	99.8	%	80 - 120 (LCL - UCL)		

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B080009										
Benzene	B080009-BS1	LCS	22.090	25.000	ug/L	88.4		70 - 130		
Bromodichloromethane	B080009-BS1	LCS	25.140	25.000	ug/L	101		70 - 130		
Chlorobenzene	B080009-BS1	LCS	24.040	25.000	ug/L	96.2		70 - 130		
Chloroethane	B080009-BS1	LCS	23.010	25.000	ug/L	92.0		70 - 130		
1,4-Dichlorobenzene	B080009-BS1	LCS	24.320	25.000	ug/L	97.3		70 - 130		
1,1-Dichloroethane	B080009-BS1	LCS	23.490	25.000	ug/L	94.0		70 - 130		
1,1-Dichloroethene	B080009-BS1	LCS	23.980	25.000	ug/L	95.9		70 - 130		
Toluene	B080009-BS1	LCS	23.940	25.000	ug/L	95.8		70 - 130		
Trichloroethene	B080009-BS1	LCS	24.590	25.000	ug/L	98.4		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B080009-BS1	LCS	10.020	10.000	ug/L	100		75 - 125		
Toluene-d8 (Surrogate)	B080009-BS1	LCS	9.9100	10.000	ug/L	99.1		80 - 120		
4-Bromofluorobenzene (Surrogate)	B080009-BS1	LCS	10.040	10.000	ug/L	100		80 - 120		

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B080009		Used client sample: N								
Benzene	MS	2016743-03	ND	21.460	25.000	ug/L		85.8		70 - 130
	MSD	2016743-03	ND	22.080	25.000	ug/L	2.8	88.3	20	70 - 130
Bromodichloromethane	MS	2016743-03	ND	24.640	25.000	ug/L		98.6		70 - 130
	MSD	2016743-03	ND	25.400	25.000	ug/L	3.0	102	20	70 - 130
Chlorobenzene	MS	2016743-03	ND	23.220	25.000	ug/L		92.9		70 - 130
	MSD	2016743-03	ND	24.000	25.000	ug/L	3.3	96.0	20	70 - 130
Chloroethane	MS	2016743-03	ND	22.120	25.000	ug/L		88.5		70 - 130
	MSD	2016743-03	ND	22.620	25.000	ug/L	2.2	90.5	20	70 - 130
1,4-Dichlorobenzene	MS	2016743-03	ND	23.640	25.000	ug/L		94.6		70 - 130
	MSD	2016743-03	ND	24.630	25.000	ug/L	4.1	98.5	20	70 - 130
1,1-Dichloroethane	MS	2016743-03	ND	22.710	25.000	ug/L		90.8		70 - 130
	MSD	2016743-03	ND	23.360	25.000	ug/L	2.8	93.4	20	70 - 130
1,1-Dichloroethene	MS	2016743-03	ND	23.040	25.000	ug/L		92.2		70 - 130
	MSD	2016743-03	ND	23.560	25.000	ug/L	2.2	94.2	20	70 - 130
Toluene	MS	2016743-03	ND	23.350	25.000	ug/L		93.4		70 - 130
	MSD	2016743-03	ND	23.930	25.000	ug/L	2.5	95.7	20	70 - 130
Trichloroethene	MS	2016743-03	ND	23.690	25.000	ug/L		94.8		70 - 130
	MSD	2016743-03	ND	24.270	25.000	ug/L	2.4	97.1	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	2016743-03	ND	9.7600	10.000	ug/L		97.6		75 - 125
	MSD	2016743-03	ND	9.8100	10.000	ug/L	0.5	98.1		75 - 125
Toluene-d8 (Surrogate)	MS	2016743-03	ND	9.9300	10.000	ug/L		99.3		80 - 120
	MSD	2016743-03	ND	9.9000	10.000	ug/L	0.3	99.0		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	2016743-03	ND	9.9000	10.000	ug/L		99.0		80 - 120
	MSD	2016743-03	ND	9.9200	10.000	ug/L	0.2	99.2		80 - 120

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080009						
Chloroacetonitrile	B080009-BLK1	0	ug/L			
1-Chlorobutane	B080009-BLK1	0	ug/L			
1,1-Dichloropropanone	B080009-BLK1	0	ug/L			
Methyl acrylate	B080009-BLK1	0	ug/L			
Nitrobenzene	B080009-BLK1	0	ug/L			
2-Nitropropane	B080009-BLK1	0	ug/L			

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080194						
Acenaphthene	B080194-BLK1	ND	ug/L	2.0	0.20	
Acenaphthylene	B080194-BLK1	ND	ug/L	2.0	0.20	
Aldrin	B080194-BLK1	ND	ug/L	2.0	0.23	
Aniline	B080194-BLK1	ND	ug/L	5.0	0.28	
Anthracene	B080194-BLK1	ND	ug/L	2.0	0.20	
Benzidine	B080194-BLK1	ND	ug/L	20	1.6	
Benzo[a]anthracene	B080194-BLK1	ND	ug/L	2.0	0.21	
Benzo[b]fluoranthene	B080194-BLK1	ND	ug/L	2.0	0.24	
Benzo[k]fluoranthene	B080194-BLK1	ND	ug/L	2.0	0.30	
Benzo[a]pyrene	B080194-BLK1	ND	ug/L	2.0	0.20	
Benzo[g,h,i]perylene	B080194-BLK1	ND	ug/L	2.0	0.33	
Benzoic acid	B080194-BLK1	ND	ug/L	10	0.52	
Benzyl alcohol	B080194-BLK1	ND	ug/L	2.0	0.20	
Benzyl butyl phthalate	B080194-BLK1	ND	ug/L	2.0	0.20	
alpha-BHC	B080194-BLK1	ND	ug/L	2.0	0.20	
beta-BHC	B080194-BLK1	ND	ug/L	2.0	0.20	
delta-BHC	B080194-BLK1	ND	ug/L	2.0	0.20	
gamma-BHC (Lindane)	B080194-BLK1	ND	ug/L	2.0	0.20	
bis(2-Chloroethoxy)methane	B080194-BLK1	ND	ug/L	2.0	0.20	
bis(2-Chloroethyl) ether	B080194-BLK1	ND	ug/L	2.0	0.31	
bis(2-Chloroisopropyl)ether	B080194-BLK1	ND	ug/L	2.0	0.20	
bis(2-Ethylhexyl)phthalate	B080194-BLK1	ND	ug/L	4.0	0.20	
4-Bromophenyl phenyl ether	B080194-BLK1	ND	ug/L	2.0	0.20	
4-Chloroaniline	B080194-BLK1	ND	ug/L	2.0	1.1	
2-Chloronaphthalene	B080194-BLK1	ND	ug/L	2.0	0.20	
4-Chlorophenyl phenyl ether	B080194-BLK1	ND	ug/L	2.0	0.20	
Chrysene	B080194-BLK1	ND	ug/L	2.0	0.20	
4,4'-DDD	B080194-BLK1	ND	ug/L	2.0	0.26	
4,4'-DDE	B080194-BLK1	ND	ug/L	3.0	0.24	
4,4'-DDT	B080194-BLK1	ND	ug/L	2.0	0.22	
Dibenzo[a,h]anthracene	B080194-BLK1	ND	ug/L	3.0	0.34	
Dibenzofuran	B080194-BLK1	ND	ug/L	2.0	0.20	
1,2-Dichlorobenzene	B080194-BLK1	ND	ug/L	2.0	0.20	
1,3-Dichlorobenzene	B080194-BLK1	ND	ug/L	2.0	0.20	

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

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080194						
1,4-Dichlorobenzene	B080194-BLK1	ND	ug/L	2.0	0.27	
3,3-Dichlorobenzidine	B080194-BLK1	ND	ug/L	10	0.53	
Dieldrin	B080194-BLK1	ND	ug/L	3.0	0.39	
Diethyl phthalate	B080194-BLK1	ND	ug/L	2.0	0.20	
Dimethyl phthalate	B080194-BLK1	ND	ug/L	2.0	0.20	
Di-n-butyl phthalate	B080194-BLK1	ND	ug/L	2.0	0.20	
2,4-Dinitrotoluene	B080194-BLK1	ND	ug/L	2.0	0.40	
2,6-Dinitrotoluene	B080194-BLK1	ND	ug/L	2.0	0.20	
Di-n-octyl phthalate	B080194-BLK1	ND	ug/L	2.0	0.21	
1,2-Diphenylhydrazine	B080194-BLK1	ND	ug/L	2.0	0.20	
Endosulfan I	B080194-BLK1	ND	ug/L	10	0.31	
Endosulfan II	B080194-BLK1	ND	ug/L	10	0.30	
Endosulfan sulfate	B080194-BLK1	ND	ug/L	3.0	0.23	
Endrin	B080194-BLK1	ND	ug/L	2.0	0.38	
Endrin aldehyde	B080194-BLK1	ND	ug/L	10	0.44	
Fluoranthene	B080194-BLK1	ND	ug/L	2.0	0.28	
Fluorene	B080194-BLK1	ND	ug/L	2.0	0.20	
Heptachlor	B080194-BLK1	ND	ug/L	2.0	0.20	
Heptachlor epoxide	B080194-BLK1	ND	ug/L	2.0	0.26	
Hexachlorobenzene	B080194-BLK1	ND	ug/L	2.0	0.25	
Hexachlorobutadiene	B080194-BLK1	ND	ug/L	2.0	0.20	
Hexachlorocyclopentadiene	B080194-BLK1	ND	ug/L	2.0	0.31	
Hexachloroethane	B080194-BLK1	ND	ug/L	2.0	0.20	
Indeno[1,2,3-cd]pyrene	B080194-BLK1	ND	ug/L	2.0	0.29	
Isophorone	B080194-BLK1	ND	ug/L	2.0	0.20	
2-Methylnaphthalene	B080194-BLK1	ND	ug/L	2.0	0.20	
Naphthalene	B080194-BLK1	ND	ug/L	2.0	0.20	
2-Naphthylamine	B080194-BLK1	ND	ug/L	20	1.3	
2-Nitroaniline	B080194-BLK1	ND	ug/L	2.0	0.20	
3-Nitroaniline	B080194-BLK1	ND	ug/L	2.0	0.22	
4-Nitroaniline	B080194-BLK1	ND	ug/L	5.0	0.38	
Nitrobenzene	B080194-BLK1	ND	ug/L	2.0	0.20	
N-Nitrosodimethylamine	B080194-BLK1	ND	ug/L	2.0	1.2	
N-Nitrosodi-N-propylamine	B080194-BLK1	ND	ug/L	2.0	0.21	

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080194						
N-Nitrosodiphenylamine	B080194-BLK1	ND	ug/L	2.0	0.20	
Phenanthrene	B080194-BLK1	ND	ug/L	2.0	0.20	
Pyrene	B080194-BLK1	ND	ug/L	2.0	0.22	
1,2,4-Trichlorobenzene	B080194-BLK1	ND	ug/L	2.0	0.20	
4-Chloro-3-methylphenol	B080194-BLK1	ND	ug/L	5.0	0.20	
2-Chlorophenol	B080194-BLK1	ND	ug/L	2.0	0.20	
2,4-Dichlorophenol	B080194-BLK1	ND	ug/L	2.0	0.23	
2,4-Dimethylphenol	B080194-BLK1	ND	ug/L	2.0	0.20	
4,6-Dinitro-2-methylphenol	B080194-BLK1	ND	ug/L	10	0.24	
2,4-Dinitrophenol	B080194-BLK1	ND	ug/L	10	0.20	
2-Methylphenol	B080194-BLK1	ND	ug/L	2.0	0.20	
3- & 4-Methylphenol	B080194-BLK1	ND	ug/L	2.0	0.40	
Total Methylphenol	B080194-BLK1	ND	ug/L	4.0	0.60	
2-Nitrophenol	B080194-BLK1	ND	ug/L	2.0	0.20	
4-Nitrophenol	B080194-BLK1	ND	ug/L	2.0	0.30	
Pentachlorophenol	B080194-BLK1	ND	ug/L	10	0.40	
Phenol	B080194-BLK1	ND	ug/L	2.0	0.21	
2,4,5-Trichlorophenol	B080194-BLK1	ND	ug/L	5.0	0.20	
2,4,6-Trichlorophenol	B080194-BLK1	ND	ug/L	5.0	0.20	
Acetophenone	B080194-BLK1	ND	ug/L	10	0.33	
2-Acetylaminofluorene	B080194-BLK1	ND	ug/L	10	0.78	
Acrolein, dimethyl acetal	B080194-BLK1	ND	ug/L	40	6.1	
4-Aminobiphenyl	B080194-BLK1	ND	ug/L	20	0.35	
Aramite	B080194-BLK1	ND	ug/L	10	0.35	
Benzaldehyde	B080194-BLK1	ND	ug/L	10	2.9	
Benefin	B080194-BLK1	ND	ug/L	10	0.88	
1,1-Biphenyl	B080194-BLK1	ND	ug/L	10	3.6	
Caprolactam	B080194-BLK1	ND	ug/L	10	3.6	
Carbazole	B080194-BLK1	ND	ug/L	2.0	0.20	
cis-Chlordane	B080194-BLK1	ND	ug/L	5.0	0.59	
trans-Chlordane	B080194-BLK1	ND	ug/L	5.0	0.55	
Chlorobenzilate	B080194-BLK1	ND	ug/L	10	0.27	
1-Chloronaphthalene	B080194-BLK1	ND	ug/L	10	0.37	
cis-Diallate	B080194-BLK1	ND	ug/L	5.0	2.4	

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080194						
trans-Diallate	B080194-BLK1	ND	ug/L	5.0	0.56	
Diallate	B080194-BLK1	ND	ug/L	10	3.0	
2,6-Dichlorophenol	B080194-BLK1	ND	ug/L	10	0.28	
Dimethoate	B080194-BLK1	ND	ug/L	20	0.99	
p-(Dimethylamino)azobenzene	B080194-BLK1	ND	ug/L	10	0.27	
7,12-Dimethylbenz[a]anthracene	B080194-BLK1	ND	ug/L	10	0.37	
3,3'-Dimethylbenzidine	B080194-BLK1	ND	ug/L	20	0.42	
a,a-Dimethylphenethylamine	B080194-BLK1	ND	ug/L	20	4.9	
Dimethyl sulfoxide (DMSO)	B080194-BLK1	ND	ug/L	10	9.5	
1,3-Dinitrobenzene	B080194-BLK1	ND	ug/L	10	0.93	
Dinoseb	B080194-BLK1	ND	ug/L	10	0.91	
Diphenylamine	B080194-BLK1	ND	ug/L	10	0.61	
Disulfoton	B080194-BLK1	ND	ug/L	10	0.33	
Ethyl methacrylate	B080194-BLK1	ND	ug/L	10	1.2	
Ethyl methanesulfonate	B080194-BLK1	ND	ug/L	10	0.61	
Ethyl Parathion	B080194-BLK1	ND	ug/L	10	0.53	
Famphur	B080194-BLK1	ND	ug/L	20	4.1	
Hexachlorophene	B080194-BLK1	ND	ug/L	200	20	
Hexachloropropene	B080194-BLK1	ND	ug/L	20	0.23	
Isodrin	B080194-BLK1	ND	ug/L	10	0.43	
cis-Isosafrole	B080194-BLK1	ND	ug/L	5.0	0.44	
trans-Isosafrole	B080194-BLK1	ND	ug/L	5.0	0.29	
Isosafrole	B080194-BLK1	ND	ug/L	10	0.73	
Kepone	B080194-BLK1	ND	ug/L	20	2.2	
Methapyrilene	B080194-BLK1	ND	ug/L	10	2.9	
Methoxychlor	B080194-BLK1	ND	ug/L	10	0.20	
3-Methylcholanthrene	B080194-BLK1	ND	ug/L	10	0.31	
Methyl methacrylate	B080194-BLK1	ND	ug/L	40	3.8	
Methyl methanesulfonate	B080194-BLK1	ND	ug/L	10	0.40	
1-Methylnaphthalene	B080194-BLK1	ND	ug/L	10	0.26	
Methyl parathion	B080194-BLK1	ND	ug/L	10	0.71	
N-Methyl-2-pyrrolidinone	B080194-BLK1	ND	ug/L	10	2.5	
1,4-Naphthoquinone	B080194-BLK1	ND	ug/L	20	0.87	
1-Naphthylamine	B080194-BLK1	ND	ug/L	20	0.30	

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Table with 7 columns: Constituent, QC Sample ID, MB Result, Units, PQL, MDL, Lab Quals. Includes a QC Batch ID: B080194 and a list of 30 chemical constituents with their respective results (mostly ND) and PQL/MDL values.

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080194						
2,3,4,6-Tetrachlorophenol	B080194-BLK1	ND	ug/L	10	0.73	
Thionazin	B080194-BLK1	ND	ug/L	10	0.38	
2-Toluidine	B080194-BLK1	ND	ug/L	10	0.41	
Toxaphene	B080194-BLK1	ND	ug/L	100	50	
o,o,o-Triethylphosphorothioate	B080194-BLK1	ND	ug/L	10	0.44	
1,3,5-Trinitrobenzene	B080194-BLK1	ND	ug/L	10	1.4	
Tris(hydroxymethyl)nitromethane	B080194-BLK1	ND	ug/L	50	5.0	
2-Fluorophenol (Surrogate)	B080194-BLK1	80.3	%	30 - 120 (LCL - UCL)		
Phenol-d5 (Surrogate)	B080194-BLK1	39.9	%	12 - 110 (LCL - UCL)		
Nitrobenzene-d5 (Surrogate)	B080194-BLK1	104	%	50 - 130 (LCL - UCL)		
2-Fluorobiphenyl (Surrogate)	B080194-BLK1	88.6	%	55 - 125 (LCL - UCL)		
2,4,6-Tribromophenol (Surrogate)	B080194-BLK1	121	%	40 - 150 (LCL - UCL)		
p-Terphenyl-d14 (Surrogate)	B080194-BLK1	63.9	%	40 - 150 (LCL - UCL)		

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Laboratory Control Sample

Table with columns: Constituent, QC Sample ID, Type, Result, Spike Level, Units, Percent Recovery, RPD, Control Limits (Percent Recovery, RPD), Lab (Quals). Includes a sub-table for QC Batch ID: B080194.

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Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes QC Batch ID: B080194 and Used client sample: N.

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: B080194		Used client sample: N								
Pyridine	MS	2016224-41	ND	ND	50.000	ug/L		0	1 - 110	Q03
	MSD	2016224-41	ND	12.338	50.000	ug/L	200	24.7	30 1 - 110	
2-Fluorophenol (Surrogate)	MS	2016224-41	ND	23.702	40.000	ug/L		59.3	30 - 120	
	MSD	2016224-41	ND	27.224	40.000	ug/L	13.8	68.1	30 - 120	
Phenol-d5 (Surrogate)	MS	2016224-41	ND	11.932	40.000	ug/L		29.8	12 - 110	
	MSD	2016224-41	ND	14.386	40.000	ug/L	18.7	36.0	12 - 110	
Nitrobenzene-d5 (Surrogate)	MS	2016224-41	ND	30.932	40.000	ug/L		77.3	50 - 130	
	MSD	2016224-41	ND	37.789	40.000	ug/L	20.0	94.5	50 - 130	
2-Fluorobiphenyl (Surrogate)	MS	2016224-41	ND	29.868	40.000	ug/L		74.7	55 - 125	
	MSD	2016224-41	ND	33.898	40.000	ug/L	12.6	84.7	55 - 125	
2,4,6-Tribromophenol (Surrogate)	MS	2016224-41	ND	42.560	40.000	ug/L		106	40 - 150	
	MSD	2016224-41	ND	46.815	40.000	ug/L	9.5	117	40 - 150	
p-Terphenyl-d14 (Surrogate)	MS	2016224-41	ND	13.044	20.000	ug/L		65.2	40 - 150	
	MSD	2016224-41	ND	16.317	20.000	ug/L	22.3	81.6	40 - 150	

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080194						
1-Acetyl-2-thiourea	B080194-BLK1	0	ug/L			
2-Aminoanthraquinone	B080194-BLK1	0	ug/L			
3-Amino-9-ethylcarbazole	B080194-BLK1	0	ug/L			
Anilazine	B080194-BLK1	0	ug/L			
o-Anisidine	B080194-BLK1	0	ug/L			
Azinphos methyl	B080194-BLK1	0	ug/L			
Barban	B080194-BLK1	0	ug/L			
p-Benzoquinone	B080194-BLK1	0	ug/L			
Bromoxynil	B080194-BLK1	0	ug/L			
Captafol	B080194-BLK1	0	ug/L			
Captan	B080194-BLK1	0	ug/L			
Carbaryl	B080194-BLK1	0	ug/L			
Carbofuran	B080194-BLK1	0	ug/L			
Carbophenothion	B080194-BLK1	0	ug/L			
Chlorfenvinphos	B080194-BLK1	0	ug/L			
5-Chloro-2-methylaniline	B080194-BLK1	0	ug/L			
3-(Chloromethyl) pyridine hydrochloride	B080194-BLK1	0	ug/L			
4-Chloro-1,2-phenylenediamine	B080194-BLK1	0	ug/L			
4-Chloro-1,3-phenylenediamine	B080194-BLK1	0	ug/L			
Coumaphos	B080194-BLK1	0	ug/L			
p-Cresidine	B080194-BLK1	0	ug/L			
Crotoxphos	B080194-BLK1	0	ug/L			
2-Cyclohexyl-4,6-dinitrophenol	B080194-BLK1	0	ug/L			
Demeton-O	B080194-BLK1	0	ug/L			
Demeton-S	B080194-BLK1	0	ug/L			
2,4-Diaminotoluene	B080194-BLK1	0	ug/L			
Dibenz[a,j]acridine	B080194-BLK1	0	ug/L			
Dibenzo[a,e]pyrene	B080194-BLK1	0	ug/L			
1,2-Dibromo-3-chloropropane	B080194-BLK1	0	ug/L			
Dichlone	B080194-BLK1	0	ug/L			
Dichlorvos	B080194-BLK1	0	ug/L			
Dicrotophos	B080194-BLK1	0	ug/L			
Diethylstilbestrol	B080194-BLK1	0	ug/L			
Diethyl sulfate	B080194-BLK1	0	ug/L			

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Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080194						
Dihydrosafrole	B080194-BLK1	0	ug/L			
3,3'-Dimethoxybenzidine	B080194-BLK1	0	ug/L			
1,2-Dinitrobenzene	B080194-BLK1	0	ug/L			
1,4-Dinitrobenzene	B080194-BLK1	0	ug/L			
Dinocap	B080194-BLK1	0	ug/L			
Dioxathion	B080194-BLK1	0	ug/L			
5,5-Diphenylhydantoin	B080194-BLK1	0	ug/L			
Endrin ketone	B080194-BLK1	0	ug/L			
EPN	B080194-BLK1	0	ug/L			
Ethion	B080194-BLK1	0	ug/L			
Ethyl carbamate	B080194-BLK1	0	ug/L			
Fensulfothion	B080194-BLK1	0	ug/L			
Fenthion	B080194-BLK1	0	ug/L			
Fluchloralin	B080194-BLK1	0	ug/L			
Hexamethylphosphoramide	B080194-BLK1	0	ug/L			
Hydroquinone	B080194-BLK1	0	ug/L			
Leptophos	B080194-BLK1	0	ug/L			
Malathion	B080194-BLK1	0	ug/L			
Maleic Anhydride	B080194-BLK1	0	ug/L			
Mestranol	B080194-BLK1	0	ug/L			
4,4'-Methylenebis(2-chloroaniline)	B080194-BLK1	0	ug/L			
4,4'-Methylenebis[N,N-dimethylaniline]	B080194-BLK1	0	ug/L			
Mevinphos	B080194-BLK1	0	ug/L			
Mexacarbate	B080194-BLK1	0	ug/L			
Mirex	B080194-BLK1	0	ug/L			
Monocrotophos	B080194-BLK1	0	ug/L			
Naled	B080194-BLK1	0	ug/L			
Nicotine	B080194-BLK1	0	ug/L			
5-Nitroacenaphthene	B080194-BLK1	0	ug/L			
5-Nitro-o-anisidine	B080194-BLK1	0	ug/L			
4-Nitrobiphenyl	B080194-BLK1	0	ug/L			
Nitrophen	B080194-BLK1	0	ug/L			
Octamethylpyrophosphoramide	B080194-BLK1	0	ug/L			
4,4'-Oxydianiline	B080194-BLK1	0	ug/L			

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

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080194						
Phenobarbital	B080194-BLK1	0	ug/L			
Phosalone	B080194-BLK1	0	ug/L			
Phosmet	B080194-BLK1	0	ug/L			
Phosphamidon	B080194-BLK1	0	ug/L			
Phthalic anhydride	B080194-BLK1	0	ug/L			
Piperonyl sulfoxide	B080194-BLK1	0	ug/L			
Propylthiouracil	B080194-BLK1	0	ug/L			
Resorcinol	B080194-BLK1	0	ug/L			
Strychnine	B080194-BLK1	0	ug/L			
Sulfallate	B080194-BLK1	0	ug/L			
Terbufos	B080194-BLK1	0	ug/L			
Tetrachlorvinphos	B080194-BLK1	0	ug/L			
TEPP	B080194-BLK1	0	ug/L			
Thiophenol (Benzenethiol)	B080194-BLK1	0	ug/L			
Toluene 2,4-diisocyanate	B080194-BLK1	0	ug/L			
Trifluralin	B080194-BLK1	0	ug/L			
2,4,5-Trimethylaniline	B080194-BLK1	0	ug/L			
Trimethyl phosphate	B080194-BLK1	0	ug/L			
Tris(2,3-dibromopropyl) phosphate	B080194-BLK1	0	ug/L			
Tri-p-tolyl phosphate	B080194-BLK1	0	ug/L			

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

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B067950						
Bicarbonate	B067950-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B067950-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B067950-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: B079982						
Chloride	B079982-BLK1	ND	mg/L	0.50	0.13	
Nitrate as N	B079982-BLK1	ND	mg/L	0.10	0.024	
Sulfate	B079982-BLK1	ND	mg/L	1.0	0.14	
QC Batch ID: B080096						
Total Dissolved Solids @ 180 C	B080096-BLK1	ND	mg/L	6.7	3.3	
QC Batch ID: B080143						
Nitrite as N	B080143-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: B080334						
Total Recoverable Calcium	B080334-BLK1	ND	mg/L	0.10	0.014	
Total Recoverable Magnesium	B080334-BLK1	ND	mg/L	0.050	0.019	
Total Recoverable Sodium	B080334-BLK1	ND	mg/L	0.50	0.051	
Total Recoverable Potassium	B080334-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: B080335						
Total Recoverable Calcium	B080335-BLK1	ND	mg/L	0.10	0.014	
Total Recoverable Magnesium	B080335-BLK1	ND	mg/L	0.050	0.019	
Total Recoverable Sodium	B080335-BLK1	ND	mg/L	0.50	0.051	
Total Recoverable Potassium	B080335-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: B080435						
Perchlorate	B080435-BLK1	ND	ug/L	4.0	0.76	

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

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits		Lab RPD Quals
							Percent Recovery	RPD	
QC Batch ID: B067950									
Total Alkalinity as CaCO3	B067950-BS3	LCS	93.110	100.00	mg/L	93.1	90 - 110		
pH	B067950-BS2	LCS	7.0100	7.0000	pH Units	100	95 - 105		
QC Batch ID: B079982									
Chloride	B079982-BS1	LCS	49.442	50.000	mg/L	98.9	90 - 110		
Nitrate as N	B079982-BS1	LCS	4.8970	5.0000	mg/L	97.9	90 - 110		
Sulfate	B079982-BS1	LCS	98.773	100.00	mg/L	98.8	90 - 110		
QC Batch ID: B080096									
Total Dissolved Solids @ 180 C	B080096-BS1	LCS	580.00	586.00	mg/L	99.0	90 - 110		
QC Batch ID: B080143									
Nitrite as N	B080143-BS1	LCS	0.52261	0.50000	mg/L	105	90 - 110		
QC Batch ID: B080334									
Total Recoverable Calcium	B080334-BS1	LCS	10.244	10.000	mg/L	102	85 - 115		
Total Recoverable Magnesium	B080334-BS1	LCS	10.313	10.000	mg/L	103	85 - 115		
Total Recoverable Sodium	B080334-BS1	LCS	10.242	10.000	mg/L	102	85 - 115		
Total Recoverable Potassium	B080334-BS1	LCS	9.8654	10.000	mg/L	98.7	85 - 115		
QC Batch ID: B080335									
Total Recoverable Calcium	B080335-BS1	LCS	10.556	10.000	mg/L	106	85 - 115		
Total Recoverable Magnesium	B080335-BS1	LCS	10.422	10.000	mg/L	104	85 - 115		
Total Recoverable Sodium	B080335-BS1	LCS	10.164	10.000	mg/L	102	85 - 115		
Total Recoverable Potassium	B080335-BS1	LCS	9.8386	10.000	mg/L	98.4	85 - 115		
QC Batch ID: B080435									
Perchlorate	B080435-BS1	LCS	9.6627	10.000	ug/L	96.6	85 - 115		

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

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quails. Includes QC Batch IDs B067950, B079982, B080096, B080143, B080334, and B080335.

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

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: B080335		Used client sample: N								
Total Recoverable Calcium	DUP	2017141-02RE1	181.28	179.73		mg/L	0.9		20	
	MS	2017141-02RE1	181.28	181.25	10.000	mg/L		-0.3		A03
	MSD	2017141-02RE1	181.28	189.64	10.000	mg/L	4.5	83.7	20	75 - 125
Total Recoverable Magnesium	DUP	2017141-02RE1	0.77021	0.76951		mg/L	0.1		20	
	MS	2017141-02RE1	0.77021	10.187	10.000	mg/L		94.2		75 - 125
	MSD	2017141-02RE1	0.77021	10.305	10.000	mg/L	1.2	95.3	20	75 - 125
Total Recoverable Sodium	DUP	2017141-02RE1	227.87	226.08		mg/L	0.8		20	
	MS	2017141-02RE1	227.87	227.24	10.000	mg/L		-6.3		A03
	MSD	2017141-02RE1	227.87	235.50	10.000	mg/L	3.6	76.3	20	75 - 125
Total Recoverable Potassium	DUP	2017141-02RE1	4.1957	4.1647		mg/L	0.7		20	
	MS	2017141-02RE1	4.1957	13.129	10.000	mg/L		89.3		75 - 125
	MSD	2017141-02RE1	4.1957	13.387	10.000	mg/L	1.9	91.9	20	75 - 125
QC Batch ID: B080435		Used client sample: Y - Description: MW-26-1, 06/10/2020 08:00								
Perchlorate	DUP	2016927-02	2.0782	2.0745		ug/L	0.2		15	J
	MS	2016927-02	2.0782	11.375	10.101	ug/L		92.0		80 - 120
	MSD	2016927-02	2.0782	11.678	10.101	ug/L	2.6	95.0	15	80 - 120

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Tidewater Inc. - Powell
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Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080075						
Hexavalent Chromium	B080075-BLK1	ND	mg/L	0.00020	0.000032	
QC Batch ID: B080093						
Total Recoverable Arsenic	B080093-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B080093-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B080093-BLK1	ND	ug/L	1.0	0.10	
QC Batch ID: B080334						
Total Recoverable Iron	B080334-BLK1	ND	ug/L	50	30	
QC Batch ID: B080335						
Total Recoverable Iron	B080335-BLK1	ND	ug/L	50	30	
QC Batch ID: B080336						
Total Recoverable Arsenic	B080336-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B080336-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B080336-BLK1	ND	ug/L	1.0	0.10	
QC Batch ID: B080337						
Total Recoverable Arsenic	B080337-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B080337-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B080337-BLK1	ND	ug/L	1.0	0.10	

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

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B080075										
Hexavalent Chromium	B080075-BS1	LCS	0.020529	0.020000	mg/L	103		90 - 110		
QC Batch ID: B080093										
Total Recoverable Arsenic	B080093-BS1	LCS	98.266	100.00	ug/L	98.3		85 - 115		
Total Recoverable Chromium	B080093-BS1	LCS	39.877	40.000	ug/L	99.7		85 - 115		
Total Recoverable Lead	B080093-BS1	LCS	101.40	100.00	ug/L	101		85 - 115		
QC Batch ID: B080334										
Total Recoverable Iron	B080334-BS1	LCS	1054.6	1000.0	ug/L	105		85 - 115		
QC Batch ID: B080335										
Total Recoverable Iron	B080335-BS1	LCS	1068.5	1000.0	ug/L	107		85 - 115		
QC Batch ID: B080336										
Total Recoverable Arsenic	B080336-BS1	LCS	100.64	100.00	ug/L	101		85 - 115		
Total Recoverable Chromium	B080336-BS1	LCS	38.279	40.000	ug/L	95.7		85 - 115		
Total Recoverable Lead	B080336-BS1	LCS	100.59	100.00	ug/L	101		85 - 115		
QC Batch ID: B080337										
Total Recoverable Arsenic	B080337-BS1	LCS	111.13	100.00	ug/L	111		85 - 115		
Total Recoverable Chromium	B080337-BS1	LCS	44.042	40.000	ug/L	110		85 - 115		
Total Recoverable Lead	B080337-BS1	LCS	111.37	100.00	ug/L	111		85 - 115		

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

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Control Limits Percent Recovery, Lab Quals. Includes QC Batch IDs B080075, B080093, B080334, B080335, B080336, and B080337.

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3761 Attucks Drive
Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: B080337		Used client sample: Y - Description: EB-2-061020, 06/10/2020 15:30								
Total Recoverable Chromium	DUP	2016927-07	ND	ND		ug/L			20	
	MS	2016927-07	ND	41.590	40.000	ug/L		104		70 - 130
	MSD	2016927-07	ND	43.473	40.000	ug/L	4.4	109	20	70 - 130
Total Recoverable Lead	DUP	2016927-07	ND	ND		ug/L			20	
	MS	2016927-07	ND	108.69	100.00	ug/L		109		70 - 130
	MSD	2016927-07	ND	115.44	100.00	ug/L	6.0	115	20	70 - 130

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

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A02 The difference between duplicate readings is less than the quantitation limit.
- A03 The sample concentration was more than 4 times the spike level.
- A07 Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
- Q02 Matrix spike precision is not within the control limits.
- Q03 Matrix spike recovery(s) was(were) 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.

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Date of Report: 06/29/2020

David Conner

Tidewater Inc. - Powell

3761 Attucks Drive

Powell, OH 43065

Client Project: 2Q20

BCL Project: JPL- GW Monitoring Wells

BCL Work Order: 2017061

Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 6/11/2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda

Client Service Rep

Stuart Buttram

Technical Director

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

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Chain of Custody Form

Page 1 of 1

Report To: Tidewater, Inc.
Client: Tidewater
Attn: David Conner
Street Address: 3761 Allucks Drive
City: Powell **State:** OH **Zip:** 43065
Phone: 628) 298 - 5715 **Fax:** 614) 792 - 2897
Email Address: david.conner@tideh2o.net
Submission #: 20-17061

Project Description: JPL-GW Monitoring
Project Code: 2020
Sampler(s): Blaine Tech

Sample #	Sample Description	Date	Time	Matrix*
-1	1B-3-061120	6/11/20	0715	L
-2	MU-18-2		0730	
-3	MU-18-1		0810	
-4	MU-19-2		0850	
-5	MU-19-3		1330	
-6	DP-1-202020		1340	
-7	MU-19-5		1405	
-8	MU-19-4		1450	
-9	EB-3-061120		1430	
-10	SB-1-061120		1500	
-11	MU-19-1		1520	

Analysis Requested:
 VOCs EPA 524.2: X
 TRM: Cr, Pb, As, Ca, Mg, K: X
 Na, Fe: X
 Hexavalent Cr 6-218.6 (mg/L): X
 Cl, NO3, NO2, SO4, Perch.: X
 CO3, HCO3, Alk, TDS, pH: X
 Orthophosphate 365.1: X
 1,4 Dioxane 9270S1M: X
 NDMA 1625M: X
 PAHs, Phthalates, Phenols: X

Notes:
 CHLOR DISTRIBUTION
 GSD JPL MWD 15W
 SUB OUT
 DO NOT HOLDING TIME
 Cr: NO, NO, OP, SS
 DO, Cl, BOB, MBAS, COT

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

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

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

Cost Center:
 1. Relinquished By: _____ Date: 6-11-20 Time: 1600
 2. Relinquished By: _____ Date: 6-11-20 Time: 1800
 3. Relinquished By: _____ Date: 6-11-20 Time: 1800

Global ID:
 1. Received By: _____ Date: 6-11-20 Time: 1800
 2. Received By: _____ Date: 6-11-20 Time: 1800
 3. Received By: _____ Date: 6-11-20 Time: 1800

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

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BC LABORATORIES INC.		COOLER RECEIPT FORM		Page <u>1</u> of <u>3</u>							
Submission #: <u>2017061</u>											
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Ontrac <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/> W / S						
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments: _____											
Custody Seals: Ice Chest <input checked="" type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments: _____											
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>											
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: <u>0.95</u> Container: <u>PE</u> Thermometer ID: <u>274</u>		Date/Time <u>6/11/2016</u>							
		Temperature: (A) <u>2.2</u> °C / (C) <u>2.1</u> °C		Analyst Init <u>GSP</u>							
SAMPLE CONTAINERS		SAMPLE NUMBERS									
		1	2	3	4	5	6	7	8	9	10
QT PE UNPRES									E		F
4oz / 8oz / 16oz PE UNPRES									F		F
2oz Cr ⁴⁺									D		D
QT INORGANIC CHEMICAL METALS									G		G
INORGANIC CHEMICAL METALS 4oz / 8oz 16oz											
PT CYANIDE											
PT NITROGEN FORMS											
PT TOTAL SULFIDE											
3oz. NITRATE / NITRITE											
PT TOTAL ORGANIC CARBON											
PT CHEMICAL OXYGEN DEMAND											
PA PHENOLICS											
40ml VOA VIAL TRAVEL BLANK		A									
40ml VOA VIAL			ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC
QT EPA 1664											
PT ODOR											
RADIOLOGICAL											
BACTERIOLOGICAL											
10 ml VOA VIAL - 504											
YT EPA 503/508/509											
YT EPA 515.1/515											
YT EPA 525											
YT EPA 525 TRAVEL BLANK											
0ml EPA 547											
0ml EPA 531.J											
0z EPA 548											
YT EPA 549											
T EPA 5015M											
T EPA 5370											
2z / 16oz / 32oz AMBER											
1z / 16oz / 32oz JAR											
OIL SLEEVE											
CB VIAL											
LASTIC BAG											
EDLAR BAG											
FEROUS IRON											
SCORE											
PART KIT											
RMA CANISTER											
Comments:		GSP									
Sample Numbering Completed By:		GSP									
Date/Time:		6/11/2016									
Rev 21 05/23/2016											
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BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 of 3

Submission #: 2017061

SHIPPING INFORMATION: Fed Ex UPS Ontrac Hand Delivery BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER: Ice Chest None Box Other (Specify) _____

FREE LIQUID: YES NO W / S _____

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____

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

COC Received: YES NO Emissivity: 0.95 Container: PE Thermometer ID: 274 Date/Time: 6/11/18 00
 Temperature: (A) 2.2 °C (C) 2.1 °C Analyst Init: GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES	E									
4oz / 8oz (16oz) PE UNPRES	F									
2oz Cr ⁶⁺	D									
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz (16oz)	G									
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	ABC									
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL - 504										
QT EPA 508/018/0280										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____

Sample Numbering Completed By: GSP Date/Time: 6/11/18 26

Rev 21 05/23/2016
 IS:\WP\del\Wend\Perfec\LAB_DOC\COF\MS\SAM\FRC\rev 201



BC LABORATORIES INC. COOLER RECEIPT FORM Page 3 of 3

Submission #: 20-17061

SHIPPING INFORMATION: Fed Ex UPS Ontrac Hand Delivery BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER: Ice Chest None Box Other (Specify) _____

FREE LIQUID: YES NO W / S

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____

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

COC Received: YES NO Emissivity: 0.95 Container: PE Thermometer ID: 274 Date/Time: 6/11/18 00

Temperature: (A) 0.8 °C / (C) 0.7 °C Analyst Init: GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES		E	E	E	E	E	E		E	
4oz / 8oz / 16oz PE UNPRES		F	F	F	F	F	F		F	
2oz Cr ⁴		D	D	D	D	D	D		D	
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz		G	G	G	G	G	G		G	
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
10ml EPA 547										
10ml EPA 531.1										
oz EPA 548										
1T EPA 549										
1T EPA 8015M										
1T EPA 8270										
oz / 16oz / 32oz AMBER										
oz / 16oz / 32oz JAR										
OIL SLEEVE										
CB VIAL										
PLASTIC BAG										
EDLAR BAG										
STROUS IRON										
SCORE										
SART KIT										
MMA CANISTER										

Comments: _____

Sample Numbering Completed By: GSP Date/Time: 6/11/18 26

Actual / C = Corrected

Rev 21 05/23/2016
 IS:\WPDoc\WordPerfect\LAB_DOC\FORMS\ISANRECrev 201

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

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2017061-01	COC Number: --- Project Number: JPL-GW Monitoring Sampling Location: --- Sampling Point: TB-3-061120 Sampled By: Blaine Tech of BTST	Receive Date: 06/11/2020 18:00 Sampling Date: 06/11/2020 07:15 Sample Depth: --- Lab Matrix: Water Sample Type: Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-3-061120 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

2017061-02	COC Number: --- Project Number: JPL-GW Monitoring Sampling Location: --- Sampling Point: MW-18-2 Sampled By: Blaine Tech of BTST	Receive Date: 06/11/2020 18:00 Sampling Date: 06/11/2020 07:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-18-2 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

2017061-03	COC Number: --- Project Number: JPL-GW Monitoring Sampling Location: --- Sampling Point: MW-18-1 Sampled By: Blaine Tech of BTST	Receive Date: 06/11/2020 18:00 Sampling Date: 06/11/2020 08:10 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-18-1 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2017061-04	COC Number: --- Project Number: JPL-GW Monitoring Sampling Location: --- Sampling Point: MW-19-2 Sampled By: Blaine Tech of BTST	Receive Date: 06/11/2020 18:00 Sampling Date: 06/11/2020 09:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-19-2 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

2017061-05	COC Number: --- Project Number: JPL-GW Monitoring Sampling Location: --- Sampling Point: MW-19-3 Sampled By: Blaine Tech of BTST	Receive Date: 06/11/2020 18:00 Sampling Date: 06/11/2020 13:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-19-3 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

2017061-06	COC Number: --- Project Number: JPL-GW Monitoring Sampling Location: --- Sampling Point: DUP-1-2Q2020 Sampled By: Blaine Tech of BTST	Receive Date: 06/11/2020 18:00 Sampling Date: 06/11/2020 13:40 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): DUP-1-2Q2020 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2017061-07	COC Number: --- Project Number: JPL-GW Monitoring Sampling Location: --- Sampling Point: MW-19-5 Sampled By: Blaine Tech of BTST	Receive Date: 06/11/2020 18:00 Sampling Date: 06/11/2020 14:05 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-19-5 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

2017061-08	COC Number: --- Project Number: JPL-GW Monitoring Sampling Location: --- Sampling Point: MW-19-4 Sampled By: Blaine Tech of BTST	Receive Date: 06/11/2020 18:00 Sampling Date: 06/11/2020 14:05 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-19-4 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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2017061-09	COC Number: --- Project Number: JPL-GW Monitoring Sampling Location: --- Sampling Point: EB-3-061120 Sampled By: Blaine Tech of BTST	Receive Date: 06/11/2020 18:00 Sampling Date: 06/11/2020 14:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-3-061120 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2017061-10	COC Number: --- Project Number: JPL-GW Monitoring Sampling Location: --- Sampling Point: SB-1-061120 Sampled By: Blaine Tech of BTST	Receive Date: 06/11/2020 18:00 Sampling Date: 06/11/2020 15:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): SB-1-061120 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

2017061-11	COC Number: --- Project Number: JPL-GW Monitoring Sampling Location: --- Sampling Point: MW-19-1 Sampled By: Blaine Tech of BTST	Receive Date: 06/11/2020 18:00 Sampling Date: 06/11/2020 15:20 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-19-1 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017061-01	Client Sample Name: JPL-GW Monitoring, TB-3-061120, 6/11/2020 7:15:00AM, Blaine Tech
----------------------------------	---

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

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

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017061-01	Client Sample Name: JPL-GW Monitoring, TB-3-061120, 6/11/2020 7:15:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND	V11	1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND	V11	1
1,1,1-Trichloroethane	ND	ug/L	0.50	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	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017061-01	Client Sample Name: JPL-GW Monitoring, TB-3-061120, 6/11/2020 7:15:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	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)	92.1	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/12/20 07:49	06/12/20 15:42	MGC	MS-V5	1	B080085	EPA 524.2

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Powell, OH 43065

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017061-01	Client Sample Name: JPL-GW Monitoring, TB-3-061120, 6/11/2020 7:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/12/20 07:49	06/12/20	15:42	MGC	MS-V5	1	B080085	EPA 524.2

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2017061-02	Client Sample Name:	JPL-GW Monitoring, MW-18-2, 6/11/2020 7:30:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1	
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1	
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1	
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1	
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1	
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1	
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Qualls, Run #. Lists various chemical constituents and their analysis results.

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

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017061-02	Client Sample Name: JPL-GW Monitoring, MW-18-2, 6/11/2020 7:30:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	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)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	105	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/12/20 07:49	06/12/20 13:18	MGC	MS-V5	1	B080085	EPA 524.2

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017061-02	Client Sample Name: JPL-GW Monitoring, MW-18-2, 6/11/2020 7:30:00AM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/12/20 07:49	06/12/20	13:18	MGC	MS-V5	1	B080085	EPA 524.2

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2017061-02		Client Sample Name: JPL-GW Monitoring, MW-18-2, 6/11/2020 7:30:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	47	mg/L	0.10	0.014	EPA-200.7	0.015		1	
Total Recoverable Magnesium	14	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	21	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	2.7	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	200	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	160	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	8.2	mg/L	0.50	0.13	EPA-300.0	ND		3	
Nitrate as N	0.34	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	30	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	7.85	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	270	mg/L	20	10	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	ND	ug/L	4.0	0.76	EPA-314.0	ND		7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/17/20 09:15	06/17/20	15:32	JRG	PE-OP4	1	B080388	EPA 200.2
2	SM-2320B	06/16/20 11:00	06/16/20	14:48	MEV	MET-1	1	B067953	No Prep
3	EPA-300.0	06/11/20 20:00	06/11/20	21:51	CMM	IC1	1	B080074	No Prep
4	EPA-150.1	06/16/20 11:00	06/16/20	14:48	MEV	MET-1	1	B067953	No Prep
5	EPA-160.1	06/15/20 14:00	06/15/20	14:00	CAD	MANUAL	2	B080107	No Prep
6	EPA-353.2	06/11/20 21:00	06/11/20	21:12	CMM	KONE-1	1	B080144	No Prep
7	EPA-314.0	06/17/20 14:00	06/17/20	20:45	KB1	IC6	1	B080435	No Prep

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017061-02	Client Sample Name: JPL-GW Monitoring, MW-18-2, 6/11/2020 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000083	mg/L	0.00020	0.000032	EPA-218.6	ND	J	1
Total Recoverable Arsenic	1.1	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	68	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/16/20 19:00	06/16/20	19:43	KB1	IC-4	1	B080373	No Prep
2	EPA-200.8	06/16/20 20:20	06/17/20	14:33	AS1	PE-EL2	1	B080336	EPA 200.2
3	EPA-200.7	06/17/20 09:15	06/17/20	15:32	JRG	PE-OP4	1	B080388	EPA 200.2

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017061-03	Client Sample Name: JPL-GW Monitoring, MW-18-1, 6/11/2020 8:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2017061-03) and Client Sample Name (JPL-GW Monitoring, MW-18-1, 6/11/2020 8:10:00AM, Blaine Tech)

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

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017061-03	Client Sample Name: JPL-GW Monitoring, MW-18-1, 6/11/2020 8:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	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)	95.3	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/12/20 07:49	06/12/20 16:06	MGC	MS-V5	1	B080085	EPA 524.2

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017061-03	Client Sample Name: JPL-GW Monitoring, MW-18-1, 6/11/2020 8:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/12/20 07:49	06/12/20	16:06	MGC	MS-V5	1	B080085	EPA 524.2

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3761 Attucks Drive
Powell, OH 43065

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows 1-7 corresponding to the main analysis table.

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017061-03	Client Sample Name: JPL-GW Monitoring, MW-18-1, 6/11/2020 8:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00020	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	43	ug/L	50	30	EPA-200.7	ND	J	3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/16/20 19:00	06/16/20	20:21	CMM	IC-4	1	B080373	No Prep
2	EPA-200.8	06/16/20 20:20	06/17/20	14:35	AS1	PE-EL2	1	B080336	EPA 200.2
3	EPA-200.7	06/17/20 09:15	06/17/20	15:38	JRG	PE-OP4	1	B080388	EPA 200.2

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2017061-04	Client Sample Name:	JPL-GW Monitoring, MW-19-2, 6/11/2020 9:30:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1	
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1	
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1	
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chloroform	1.3	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1	
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1	
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1	
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	

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Powell, OH 43065

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Lists various chemical constituents and their analysis results.

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

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017061-04	Client Sample Name: JPL-GW Monitoring, MW-19-2, 6/11/2020 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	98.4	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/12/20 07:49	06/12/20 16:30	MGC	MS-V5	1	B080085	EPA 524.2

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Powell, OH 43065

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017061-04	Client Sample Name: JPL-GW Monitoring, MW-19-2, 6/11/2020 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/12/20 07:49	06/12/20	16:30	MGC	MS-V5	1	B080085	EPA 524.2

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2017061-04		Client Sample Name: JPL-GW Monitoring, MW-19-2, 6/11/2020 9:30:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Acenaphthylene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Aldrin	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
Aniline	ND	ug/L	5.0	0.28	EPA-8270C	ND		1
Anthracene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzidine	ND	ug/L	20	1.6	EPA-8270C	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
Benzoic acid	ND	ug/L	10	0.52	EPA-8270C	ND		1
Benzyl alcohol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
alpha-BHC	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
beta-BHC	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
delta-BHC	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
bis(2-Chloroisopropyl) ether	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
bis(2-Ethylhexyl)phthalate	ND	ug/L	4.0	0.20	EPA-8270C	ND		1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4-Chloroaniline	ND	ug/L	2.0	1.1	EPA-8270C	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Chrysene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4,4'-DDD	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
4,4'-DDE	ND	ug/L	3.0	0.24	EPA-8270C	ND		1
4,4'-DDT	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	0.34	EPA-8270C	ND		1
Dibenzofuran	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	2017061-04	Client Sample Name:	JPL-GW Monitoring, MW-19-2, 6/11/2020 9:30:00AM, Blaine Tech					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	0.53	EPA-8270C	ND		1
Dieldrin	ND	ug/L	3.0	0.39	EPA-8270C	ND		1
Diethyl phthalate	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.40	EPA-8270C	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Endosulfan I	ND	ug/L	10	0.31	EPA-8270C	ND		1
Endosulfan II	ND	ug/L	10	0.30	EPA-8270C	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.23	EPA-8270C	ND		1
Endrin	ND	ug/L	2.0	0.38	EPA-8270C	ND		1
Endrin aldehyde	ND	ug/L	10	0.44	EPA-8270C	ND		1
Fluoranthene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Fluorene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Heptachlor	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
Hexachlorobenzene	ND	ug/L	2.0	0.25	EPA-8270C	ND		1
Hexachlorobutadiene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Hexachlorocyclopentadiene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
Hexachloroethane	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.29	EPA-8270C	ND		1
Isophorone	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Naphthalene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2-Naphthylamine	ND	ug/L	20	1.3	EPA-8270C	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.38	EPA-8270C	ND		1
Nitrobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1

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Powell, OH 43065

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2017061-04		Client Sample Name: JPL-GW Monitoring, MW-19-2, 6/11/2020 9:30:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.0	1.2	EPA-8270C	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Pyrene	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.20	EPA-8270C	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.24	EPA-8270C	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-8270C	ND		1
2-Methylphenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	0.40	EPA-8270C	ND		1
Total Methylphenol	ND	ug/L	4.0	0.60	EPA-8270C	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Pentachlorophenol	ND	ug/L	10	0.40	EPA-8270C	ND		1
Phenol	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.20	EPA-8270C	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.20	EPA-8270C	ND		1
Acetophenone	ND	ug/L	10	0.33	EPA-8270C	ND		1
2-Acetylaminofluorene	ND	ug/L	10	0.78	EPA-8270C	ND		1
Acrolein, dimethyl acetal	ND	ug/L	40	6.1	EPA-8270C	ND		1
4-Aminobiphenyl	ND	ug/L	20	0.35	EPA-8270C	ND		1
Aramite	ND	ug/L	10	0.35	EPA-8270C	ND		1
Benzaldehyde	ND	ug/L	10	2.9	EPA-8270C	ND		1
Benefin	ND	ug/L	10	0.88	EPA-8270C	ND		1
1,1-Biphenyl	ND	ug/L	10	3.6	EPA-8270C	ND		1
Caprolactam	ND	ug/L	10	3.6	EPA-8270C	ND		1
Carbazole	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
cis-Chlordane	ND	ug/L	5.0	0.59	EPA-8270C	ND		1
trans-Chlordane	ND	ug/L	5.0	0.55	EPA-8270C	ND		1

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	2017061-04	Client Sample Name:	JPL-GW Monitoring, MW-19-2, 6/11/2020 9:30:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Chlorobenzilate	ND	ug/L	10	0.27	EPA-8270C	ND		1	
1-Chloronaphthalene	ND	ug/L	10	0.37	EPA-8270C	ND		1	
cis-Diallate	ND	ug/L	5.0	2.4	EPA-8270C	ND		1	
trans-Diallate	ND	ug/L	5.0	0.56	EPA-8270C	ND		1	
Diallate	ND	ug/L	10	3.0	EPA-8270C	ND		1	
2,6-Dichlorophenol	ND	ug/L	10	0.28	EPA-8270C	ND		1	
Dimethoate	ND	ug/L	20	0.99	EPA-8270C	ND		1	
p-(Dimethylamino)azobenzene	ND	ug/L	10	0.27	EPA-8270C	ND		1	
7,12-Dimethylbenz[a]anthracene	ND	ug/L	10	0.37	EPA-8270C	ND		1	
3,3'-Dimethylbenzidine	ND	ug/L	20	0.42	EPA-8270C	ND		1	
a,a-Dimethylphenethylamine	ND	ug/L	20	4.9	EPA-8270C	ND		1	
Dimethyl sulfoxide (DMSO)	ND	ug/L	10	9.5	EPA-8270C	ND		1	
1,3-Dinitrobenzene	ND	ug/L	10	0.93	EPA-8270C	ND		1	
Dinoseb	ND	ug/L	10	0.91	EPA-8270C	ND		1	
Diphenylamine	ND	ug/L	10	0.61	EPA-8270C	ND		1	
Disulfoton	ND	ug/L	10	0.33	EPA-8270C	ND		1	
Ethyl methacrylate	ND	ug/L	10	1.2	EPA-8270C	ND		1	
Ethyl methanesulfonate	ND	ug/L	10	0.61	EPA-8270C	ND		1	
Ethyl Parathion	ND	ug/L	10	0.53	EPA-8270C	ND		1	
Famphur	ND	ug/L	20	4.1	EPA-8270C	ND		1	
Hexachlorophene	ND	ug/L	200	20	EPA-8270C	ND		1	
Hexachloropropene	ND	ug/L	20	0.23	EPA-8270C	ND		1	
Isodrin	ND	ug/L	10	0.43	EPA-8270C	ND		1	
cis-Isosafrole	ND	ug/L	5.0	0.44	EPA-8270C	ND		1	
trans-Isosafrole	ND	ug/L	5.0	0.29	EPA-8270C	ND		1	
Isosafrole	ND	ug/L	10	0.73	EPA-8270C	ND		1	
Kepone	ND	ug/L	20	2.2	EPA-8270C	ND		1	
Methapyrilene	ND	ug/L	10	2.9	EPA-8270C	ND		1	
Methoxychlor	ND	ug/L	10	0.20	EPA-8270C	ND		1	
3-Methylcholanthrene	ND	ug/L	10	0.31	EPA-8270C	ND		1	
Methyl methacrylate	ND	ug/L	40	3.8	EPA-8270C	ND		1	
Methyl methanesulfonate	ND	ug/L	10	0.40	EPA-8270C	ND		1	
1-Methylnaphthalene	ND	ug/L	10	0.26	EPA-8270C	ND		1	

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	2017061-04			Client Sample Name:	JPL-GW Monitoring, MW-19-2, 6/11/2020 9:30:00AM, Blaine Tech			
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Methyl parathion	ND	ug/L	10	0.71	EPA-8270C	ND		1
N-Methyl-2-pyrrolidinone	ND	ug/L	10	2.5	EPA-8270C	ND		1
1,4-Naphthoquinone	ND	ug/L	20	0.87	EPA-8270C	ND		1
1-Naphthylamine	ND	ug/L	20	0.30	EPA-8270C	ND		1
5-Nitro-o-toluidine	ND	ug/L	10	0.85	EPA-8270C	ND		1
4-Nitroquinoline 1-oxide	ND	ug/L	20	0.95	EPA-8270C	ND		1
N-Nitrosodibutylamine	ND	ug/L	10	0.26	EPA-8270C	ND		1
N-Nitrosodiethylamine	ND	ug/L	10	0.55	EPA-8270C	ND		1
N-Nitrosomethylethylamine	ND	ug/L	10	0.61	EPA-8270C	ND		1
N-Nitrosomorpholine	ND	ug/L	10	0.63	EPA-8270C	ND		1
N-Nitrosopiperidine	ND	ug/L	10	0.47	EPA-8270C	ND		1
N-Nitrosopyrrolidine	ND	ug/L	10	0.39	EPA-8270C	ND		1
Pentachlorobenzene	ND	ug/L	10	0.20	EPA-8270C	ND		1
Pentachloroethane	ND	ug/L	20	0.31	EPA-8270C	ND		1
Pentachloronitrobenzene	ND	ug/L	10	0.42	EPA-8270C	ND		1
Phenacetin	ND	ug/L	10	0.75	EPA-8270C	ND		1
1,4-Phenylenediamine	ND	ug/L	20	1.1	EPA-8270C	ND		1
Phorate	ND	ug/L	10	0.35	EPA-8270C	ND		1
2-Picoline	ND	ug/L	10	1.2	EPA-8270C	ND		1
PCB-1016	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1221	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1232	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1242	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1248	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1254	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1260	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1262	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1268	ND	ug/L	50	25	EPA-8270C	ND		1
Total PCB's (Summation)	ND	ug/L	50	25	EPA-8270C	ND		1
Prometryn	ND	ug/L	10	1.7	EPA-8270C	ND		1
Pronamide	ND	ug/L	10	0.22	EPA-8270C	ND		1
Propyleneglycol monomethyl ether acetate	ND	ug/L	10	3.7	EPA-8270C	ND		1
Prowl	ND	ug/L	10	0.83	EPA-8270C	ND		1

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2017061-04	Client Sample Name: JPL-GW Monitoring, MW-19-2, 6/11/2020 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Pyridine	ND	ug/L	10	1.6	EPA-8270C	ND		1
Safrole	ND	ug/L	10	0.40	EPA-8270C	ND		1
Sulfotep	ND	ug/L	10	0.23	EPA-8270C	ND		1
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10	0.20	EPA-8270C	ND		1
2,3,4,5-Tetrachlorophenol	ND	ug/L	10	5.0	EPA-8270C	ND		1
2,3,4,6-Tetrachlorophenol	ND	ug/L	10	0.73	EPA-8270C	ND		1
Thionazin	ND	ug/L	10	0.38	EPA-8270C	ND		1
2-Toluidine	ND	ug/L	10	0.41	EPA-8270C	ND		1
Toxaphene	ND	ug/L	100	50	EPA-8270C	ND		1
o,o,o-Triethylphosphorothioate	ND	ug/L	10	0.44	EPA-8270C	ND		1
1,3,5-Trinitrobenzene	ND	ug/L	10	1.4	EPA-8270C	ND		1
Tris(hydroxymethyl)nitromethane	ND	ug/L	50	5.0	EPA-8270C	ND		1
2-Fluorophenol (Surrogate)	59.2	%	30 - 120 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	37.5	%	12 - 110 (LCL - UCL)		EPA-8270C			1
Nitrobenzene-d5 (Surrogate)	82.5	%	50 - 130 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	71.8	%	55 - 125 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	88.4	%	40 - 150 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	59.0	%	40 - 150 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8270C	06/12/20 22:00	06/17/20 00:35	MK1	MS-B2	1.053	B080194	EPA 3510C

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

BCL Sample ID: 2017061-04	Client Sample Name: JPL-GW Monitoring, MW-19-2, 6/11/2020 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1-Acetyl-2-thiourea	0	ug/L			EPA-8270C	0		1
2-Aminoanthraquinone	0	ug/L			EPA-8270C	0		1
3-Amino-9-ethylcarbazole	0	ug/L			EPA-8270C	0		1
Anilazine	0	ug/L			EPA-8270C	0		1
o-Anisidine	0	ug/L			EPA-8270C	0		1
Azinphos methyl	0	ug/L			EPA-8270C	0		1
Barban	0	ug/L			EPA-8270C	0		1
p-Benzoquinone	0	ug/L			EPA-8270C	0		1
Bromoxynil	0	ug/L			EPA-8270C	0		1
Captafol	0	ug/L			EPA-8270C	0		1
Captan	0	ug/L			EPA-8270C	0		1
Carbaryl	0	ug/L			EPA-8270C	0		1
Carbofuran	0	ug/L			EPA-8270C	0		1
Carbophenothion	0	ug/L			EPA-8270C	0		1
Chlorfenvinphos	0	ug/L			EPA-8270C	0		1
5-Chloro-2-methylaniline	0	ug/L			EPA-8270C	0		1
3-(Chloromethyl) pyridine hydrochloride	0	ug/L			EPA-8270C	0		1
4-Chloro-1,2-phenylenediamine	0	ug/L			EPA-8270C	0		1
4-Chloro-1,3-phenylenediamine	0	ug/L			EPA-8270C	0		1
Coumaphos	0	ug/L			EPA-8270C	0		1
p-Cresidine	0	ug/L			EPA-8270C	0		1
Crotoxyphos	0	ug/L			EPA-8270C	0		1
2-Cyclohexyl-4,6-dinitrophenol	0	ug/L			EPA-8270C	0		1
Demeton-O	0	ug/L			EPA-8270C	0		1
Demeton-S	0	ug/L			EPA-8270C	0		1
2,4-Diaminotoluene	0	ug/L			EPA-8270C	0		1
Dibenz[a,j]acridine	0	ug/L			EPA-8270C	0		1
Dibenzo[a,e]pyrene	0	ug/L			EPA-8270C	0		1
1,2-Dibromo-3-chloropropane	0	ug/L			EPA-8270C	0		1
Dichlone	0	ug/L			EPA-8270C	0		1
Dichlorvos	0	ug/L			EPA-8270C	0		1
Dicrotophos	0	ug/L			EPA-8270C	0		1
Diethylstilbestrol	0	ug/L			EPA-8270C	0		1

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

Table with 2 columns: BCL Sample ID (2017061-04) and Client Sample Name (JPL-GW Monitoring, MW-19-2, 6/11/2020 9:30:00AM, Blaine Tech)

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

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

Table with 2 columns: BCL Sample ID (2017061-04) and Client Sample Name (JPL-GW Monitoring, MW-19-2, 6/11/2020 9:30:00AM, Blaine Tech)

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

QC summary table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, Batch ID, Prep Method.

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2017061-04		Client Sample Name: JPL-GW Monitoring, MW-19-2, 6/11/2020 9:30:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	130	mg/L	0.10	0.014	EPA-200.7	0.015		1	
Total Recoverable Magnesium	44	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	36	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	3.0	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	300	mg/L	10	10	SM-2320B	ND	A07	2	
Carbonate	ND	mg/L	5.0	5.0	SM-2320B	ND	A07	2	
Total Alkalinity as CaCO3	240	mg/L	8.2	8.2	SM-2320B	ND	A07	2	
Chloride	130	mg/L	0.50	0.13	EPA-300.0	ND		3	
Nitrate as N	11	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	160	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	7.68	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	800	mg/L	50	25	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	3.3	ug/L	4.0	0.76	EPA-314.0	ND	J	7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/17/20 09:15	06/17/20	15:41	JRG	PE-OP4	1	B080388	EPA 200.2
2	SM-2320B	06/16/20 11:00	06/16/20	15:04	MEV	MET-1	2	B067953	No Prep
3	EPA-300.0	06/11/20 20:00	06/11/20	23:36	SAV	IC1	1	B080074	No Prep
4	EPA-150.1	06/16/20 11:00	06/16/20	15:04	MEV	MET-1	1	B067953	No Prep
5	EPA-160.1	06/15/20 14:00	06/15/20	14:00	CAD	MANUAL	5	B080107	No Prep
6	EPA-353.2	06/11/20 21:00	06/11/20	21:12	CMM	KONE-1	1	B080144	No Prep
7	EPA-314.0	06/17/20 14:00	06/17/20	21:18	KB1	IC6	1	B080435	No Prep

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017061-04	Client Sample Name: JPL-GW Monitoring, MW-19-2, 6/11/2020 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0016	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	1.3	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	640	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/16/20 19:00	06/16/20	20:31	CMM	IC-4	1	B080373	No Prep
2	EPA-200.8	06/16/20 20:20	06/17/20	14:37	AS1	PE-EL2	1	B080336	EPA 200.2
3	EPA-200.7	06/17/20 09:15	06/17/20	15:41	JRG	PE-OP4	1	B080388	EPA 200.2

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017061-05	Client Sample Name: JPL-GW Monitoring, MW-19-3, 6/11/2020 1:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	2.1	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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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017061-05		Client Sample Name: JPL-GW Monitoring, MW-19-3, 6/11/2020 1:30:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND	V11	1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.71	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND	V11	1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	0.27	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	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017061-05	Client Sample Name: JPL-GW Monitoring, MW-19-3, 6/11/2020 1:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	97.2	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/12/20 07:49	06/12/20 16:54	MGC	MS-V5	1	B080085	EPA 524.2

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017061-05	Client Sample Name: JPL-GW Monitoring, MW-19-3, 6/11/2020 1:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/12/20 07:49	06/12/20	16:54	MGC	MS-V5	1	B080085	EPA 524.2

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2017061-05		Client Sample Name: JPL-GW Monitoring, MW-19-3, 6/11/2020 1:30:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	90	mg/L	0.10	0.014	EPA-200.7	0.015		1	
Total Recoverable Magnesium	30	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	32	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	2.6	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	220	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	180	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	82	mg/L	0.50	0.13	EPA-300.0	ND		3	
Nitrate as N	9.5	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	110	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	7.69	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	620	mg/L	33	17	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	3.7	ug/L	4.0	0.81	EPA-314.0	ND	J	7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/17/20 09:15	06/17/20	15:43	JRG	PE-OP4	1	B080388	EPA 200.2
2	SM-2320B	06/16/20 11:00	06/16/20	15:11	MEV	MET-1	1	B067953	No Prep
3	EPA-300.0	06/11/20 20:00	06/11/20	23:57	SAV	IC1	1	B080074	No Prep
4	EPA-150.1	06/16/20 11:00	06/16/20	15:11	MEV	MET-1	1	B067953	No Prep
5	EPA-160.1	06/15/20 14:00	06/15/20	14:00	CAD	MANUAL	3.333	B080107	No Prep
6	EPA-353.2	06/11/20 21:00	06/11/20	21:12	CMM	KONE-1	1	B080144	No Prep
7	EPA-314.0	06/25/20 09:00	06/25/20	23:08	SAV	IC6	1	B081060	No Prep

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017061-05	Client Sample Name: JPL-GW Monitoring, MW-19-3, 6/11/2020 1:30:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00089	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	1.2	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	1.9	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	180	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/16/20 19:00	06/16/20	20:40	CMM	IC-4	1	B080373	No Prep
2	EPA-200.8	06/16/20 20:20	06/17/20	14:38	AS1	PE-EL2	1	B080336	EPA 200.2
3	EPA-200.7	06/17/20 09:15	06/17/20	15:43	JRG	PE-OP4	1	B080388	EPA 200.2

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017061-06	Client Sample Name: JPL-GW Monitoring, DUP-1-2Q2020, 6/11/2020 1:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	1.9	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017061-06	Client Sample Name: JPL-GW Monitoring, DUP-1-2Q2020, 6/11/2020 1:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND	V11	1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	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	V11	1
1,1,1-Trichloroethane	ND	ug/L	0.50	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	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017061-06	Client Sample Name: JPL-GW Monitoring, DUP-1-2Q2020, 6/11/2020 1:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	99.2	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/12/20 07:49	06/12/20 17:18	MGC	MS-V5	1	B080085	EPA 524.2

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

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017061-06	Client Sample Name: JPL-GW Monitoring, DUP-1-2Q2020, 6/11/2020 1:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/12/20 07:49	06/12/20	17:18	MGC	MS-V5	1	B080085	EPA 524.2

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Tidewater Inc. - Powell
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Powell, OH 43065

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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

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Powell, OH 43065

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017061-06	Client Sample Name: JPL-GW Monitoring, DUP-1-2Q2020, 6/11/2020 1:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0019	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	2.0	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	92	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/16/20 19:00	06/16/20	20:50	CMM	IC-4	1	B080373	No Prep
2	EPA-200.8	06/16/20 20:20	06/18/20	18:52	AS1	PE-EL4	1	B080337	EPA 200.2
3	EPA-200.7	06/17/20 09:15	06/17/20	15:45	JRG	PE-OP4	1	B080388	EPA 200.2

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017061-07	Client Sample Name: JPL-GW Monitoring, MW-19-5, 6/11/2020 2:05:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	1.3	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2017061-07) and Client Sample Name (JPL-GW Monitoring, MW-19-5, 6/11/2020 2:05:00PM, Blaine Tech)

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

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Powell, OH 43065

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017061-07	Client Sample Name: JPL-GW Monitoring, MW-19-5, 6/11/2020 2:05:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	97.2	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/12/20 07:49	06/12/20 17:42	MGC	MS-V5	1	B080085	EPA 524.2

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3761 Attucks Drive
Powell, OH 43065

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017061-07	Client Sample Name: JPL-GW Monitoring, MW-19-5, 6/11/2020 2:05:00PM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/12/20 07:49	06/12/20	17:42	MGC	MS-V5	1	B080085	EPA 524.2

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

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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Powell, OH 43065

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017061-07	Client Sample Name: JPL-GW Monitoring, MW-19-5, 6/11/2020 2:05:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0022	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	1.5	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	2.0	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	140	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/16/20 19:00	06/16/20	21:19	CMM	IC-4	1	B080373	No Prep
2	EPA-200.8	06/16/20 20:20	06/18/20	18:54	AS1	PE-EL4	1	B080337	EPA 200.2
3	EPA-200.7	06/17/20 09:15	06/17/20	15:47	JRG	PE-OP4	1	B080388	EPA 200.2

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017061-08	Client Sample Name: JPL-GW Monitoring, MW-19-4, 6/11/2020 2:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	1.7	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2017061-08) and Client Sample Name (JPL-GW Monitoring, MW-19-4, 6/11/2020 2:50:00PM, Blaine Tech)

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

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017061-08	Client Sample Name: JPL-GW Monitoring, MW-19-4, 6/11/2020 2:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	99.6	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/12/20 07:49	06/12/20 18:06	MGC	MS-V5	1	B080085	EPA 524.2

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Powell, OH 43065

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017061-08	Client Sample Name: JPL-GW Monitoring, MW-19-4, 6/11/2020 2:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/12/20 07:49	06/12/20	18:06	MGC	MS-V5	1	B080085	EPA 524.2

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Tidewater Inc. - Powell
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Powell, OH 43065

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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Powell, OH 43065

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017061-08	Client Sample Name: JPL-GW Monitoring, MW-19-4, 6/11/2020 2:50:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0026	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	1.4	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	2.2	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	60	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/16/20 19:00	06/16/20	21:28	CMM	IC-4	1	B080373	No Prep
2	EPA-200.8	06/16/20 20:20	06/18/20	18:57	AS1	PE-EL4	1	B080337	EPA 200.2
3	EPA-200.7	06/17/20 09:15	06/17/20	15:49	JRG	PE-OP4	1	B080388	EPA 200.2

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017061-09	Client Sample Name: JPL-GW Monitoring, EB-3-061120, 6/11/2020 2:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017061-09	Client Sample Name: JPL-GW Monitoring, EB-3-061120, 6/11/2020 2:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND	V11	1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND	V11	1
1,1,1-Trichloroethane	ND	ug/L	0.50	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	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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Powell, OH 43065

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017061-09	Client Sample Name: JPL-GW Monitoring, EB-3-061120, 6/11/2020 2:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	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)	96.2	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/12/20 07:49	06/12/20 18:30	MGC	MS-V5	1	B080085	EPA 524.2

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017061-09	Client Sample Name: JPL-GW Monitoring, EB-3-061120, 6/11/2020 2:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/12/20 07:49	06/12/20 18:30	MGC	MS-V5	1	B080085	EPA 524.2

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2017061-09		Client Sample Name: JPL-GW Monitoring, EB-3-061120, 6/11/2020 2:30:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	0.040	mg/L	0.10	0.014	EPA-200.7	0.015	J	1
Total Recoverable Magnesium	ND	mg/L	0.050	0.019	EPA-200.7	ND		1
Total Recoverable Sodium	0.11	mg/L	0.50	0.051	EPA-200.7	ND	J	1
Total Recoverable Potassium	ND	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	ND	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	ND	mg/L	0.50	0.13	EPA-300.0	ND		3
Nitrate as N	ND	mg/L	0.10	0.024	EPA-300.0	ND		3
Sulfate	ND	mg/L	1.0	0.14	EPA-300.0	ND		3
pH	4.39	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	4.7	mg/L	6.7	3.3	EPA-160.1	ND	J	5
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6
Perchlorate	ND	ug/L	4.0	0.76	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/17/20 09:15	06/17/20 15:51		JRG	PE-OP4	1	B080388	EPA 200.2
2	SM-2320B	06/16/20 13:00	06/16/20 16:04		MEV	MET-1	1	B067954	No Prep
3	EPA-300.0	06/11/20 20:00	06/12/20 01:21		SAV	IC1	1	B080074	No Prep
4	EPA-150.1	06/16/20 13:00	06/16/20 16:04		MEV	MET-1	1	B067954	No Prep
5	EPA-160.1	06/15/20 14:00	06/15/20 14:00		CAD	MANUAL	0.667	B080107	No Prep
6	EPA-353.2	06/11/20 21:00	06/11/20 21:18		CMM	KONE-1	1	B080144	No Prep
7	EPA-314.0	06/17/20 14:00	06/18/20 00:01		SAV	IC6	1	B080435	No Prep

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Powell, OH 43065

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017061-09	Client Sample Name: JPL-GW Monitoring, EB-3-061120, 6/11/2020 2:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000040	mg/L	0.00020	0.000032	EPA-218.6	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/16/20 19:00	06/16/20	21:38	CMM	IC-4	1	B080373	No Prep
2	EPA-200.8	06/16/20 20:20	06/18/20	18:59	AS1	PE-EL4	1	B080337	EPA 200.2
3	EPA-200.7	06/17/20 09:15	06/17/20	15:51	JRG	PE-OP4	1	B080388	EPA 200.2

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Powell, OH 43065

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2017061-10	Client Sample Name:	JPL-GW Monitoring, SB-1-061120, 6/11/2020 3:00:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1	
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1	
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1	
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1	
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1	
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1	
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	

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

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017061-10	Client Sample Name: JPL-GW Monitoring, SB-1-061120, 6/11/2020 3:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND	V11	1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND	V11	1
1,1,1-Trichloroethane	ND	ug/L	0.50	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	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017061-10	Client Sample Name: JPL-GW Monitoring, SB-1-061120, 6/11/2020 3:00:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	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)	98.2	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/12/20 07:49	06/12/20 18:54	MGC	MS-V5	1	B080085	EPA 524.2

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Powell, OH 43065

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017061-10	Client Sample Name: JPL-GW Monitoring, SB-1-061120, 6/11/2020 3:00:00PM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/12/20 07:49	06/12/20 18:54	MGC	MS-V5	1	B080085	EPA 524.2

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Powell, OH 43065

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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Powell, OH 43065

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017061-10	Client Sample Name: JPL-GW Monitoring, SB-1-061120, 6/11/2020 3:00:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000056	mg/L	0.00020	0.000032	EPA-218.6	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/16/20 19:00	06/16/20	21:47	CMM	IC-4	1	B080373	No Prep
2	EPA-200.8	06/16/20 20:20	06/18/20	19:01	AS1	PE-EL4	1	B080337	EPA 200.2
3	EPA-200.7	06/17/20 09:15	06/17/20	15:54	JRG	PE-OP4	1	B080388	EPA 200.2

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2017061-11			Client Sample Name:	JPL-GW Monitoring, MW-19-1, 6/11/2020 3:20:00PM, Blaine Tech			
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.62	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2017061-11) and Client Sample Name (JPL-GW Monitoring, MW-19-1, 6/11/2020 3:20:00PM, Blaine Tech)

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

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

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017061-11	Client Sample Name: JPL-GW Monitoring, MW-19-1, 6/11/2020 3:20:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	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)	99.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/12/20 07:49	06/12/20 19:18	MGC	MS-V5	1	B080085	EPA 524.2

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Powell, OH 43065

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017061-11	Client Sample Name: JPL-GW Monitoring, MW-19-1, 6/11/2020 3:20:00PM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/12/20 07:49	06/12/20	19:18	MGC	MS-V5	1	B080085	EPA 524.2

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Powell, OH 43065

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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Tidewater Inc. - Powell
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Powell, OH 43065

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017061-11	Client Sample Name: JPL-GW Monitoring, MW-19-1, 6/11/2020 3:20:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	440	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/16/20 19:00	06/16/20	21:57	CMM	IC-4	1	B080373	No Prep
2	EPA-200.8	06/16/20 20:20	06/18/20	19:04	AS1	PE-EL4	1	B080337	EPA 200.2
3	EPA-200.7	06/17/20 09:15	06/17/20	17:23	JRG	PE-OP4	1	B080389	EPA 200.2

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Tidewater Inc. - Powell
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Powell, OH 43065

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080085						
Benzene	B080085-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B080085-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B080085-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B080085-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B080085-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B080085-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B080085-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B080085-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B080085-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B080085-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B080085-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B080085-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B080085-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B080085-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B080085-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B080085-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B080085-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B080085-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B080085-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B080085-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B080085-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B080085-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B080085-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B080085-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B080085-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B080085-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B080085-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B080085-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B080085-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B080085-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B080085-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B080085-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B080085-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B080085-BLK1	ND	ug/L	0.50	0.14	

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Powell, OH 43065

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080085						
trans-1,3-Dichloropropene	B080085-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B080085-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B080085-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B080085-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B080085-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B080085-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B080085-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B080085-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B080085-BLK1	ND	ug/L	0.50	0.12	
Styrene	B080085-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B080085-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2,2-Tetrachloroethane	B080085-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B080085-BLK1	ND	ug/L	0.50	0.23	
Toluene	B080085-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B080085-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B080085-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B080085-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B080085-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B080085-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B080085-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B080085-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B080085-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B080085-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B080085-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B080085-BLK1	ND	ug/L	0.50	0.18	
Acetone	B080085-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B080085-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B080085-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B080085-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B080085-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	B080085-BLK1	ND	ug/L	1.0	0.48	
trans-1,4-Dichloro-2-butene	B080085-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B080085-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B080085-BLK1	ND	ug/L	4.0	1.3	

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080085						
Ethyl t-butyl ether	B080085-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B080085-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B080085-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B080085-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B080085-BLK1	ND	ug/L	10	3.3	
Methyl iodide	B080085-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B080085-BLK1	ND	ug/L	10	2.4	
Methyl methacrylate	B080085-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B080085-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B080085-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B080085-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B080085-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B080085-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B080085-BLK1	97.3	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B080085-BLK1	99.9	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B080085-BLK1	101	%	80 - 120 (LCL - UCL)		

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
QC Batch ID: B080085											
Benzene	B080085-BS1	LCS	21.090	25.000	ug/L	84.4		70 - 130			
Bromodichloromethane	B080085-BS1	LCS	24.090	25.000	ug/L	96.4		70 - 130			
Chlorobenzene	B080085-BS1	LCS	22.870	25.000	ug/L	91.5		70 - 130			
Chloroethane	B080085-BS1	LCS	22.200	25.000	ug/L	88.8		70 - 130			
1,4-Dichlorobenzene	B080085-BS1	LCS	23.500	25.000	ug/L	94.0		70 - 130			
1,1-Dichloroethane	B080085-BS1	LCS	22.310	25.000	ug/L	89.2		70 - 130			
1,1-Dichloroethene	B080085-BS1	LCS	22.620	25.000	ug/L	90.5		70 - 130			
Toluene	B080085-BS1	LCS	23.310	25.000	ug/L	93.2		70 - 130			
Trichloroethene	B080085-BS1	LCS	23.090	25.000	ug/L	92.4		70 - 130			
1,2-Dichloroethane-d4 (Surrogate)	B080085-BS1	LCS	10.170	10.000	ug/L	102		75 - 125			
Toluene-d8 (Surrogate)	B080085-BS1	LCS	10.020	10.000	ug/L	100		80 - 120			
4-Bromofluorobenzene (Surrogate)	B080085-BS1	LCS	10.200	10.000	ug/L	102		80 - 120			

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B080085		Used client sample: Y - Description: MW-18-2, 06/11/2020 07:30								
Benzene	MS	2017061-02	ND	21.080	25.000	ug/L		84.3		70 - 130
	MSD	2017061-02	ND	21.680	25.000	ug/L	2.8	86.7	20	70 - 130
Bromodichloromethane	MS	2017061-02	ND	24.740	25.000	ug/L		99.0		70 - 130
	MSD	2017061-02	ND	25.450	25.000	ug/L	2.8	102	20	70 - 130
Chlorobenzene	MS	2017061-02	ND	22.940	25.000	ug/L		91.8		70 - 130
	MSD	2017061-02	ND	23.700	25.000	ug/L	3.3	94.8	20	70 - 130
Chloroethane	MS	2017061-02	ND	22.310	25.000	ug/L		89.2		70 - 130
	MSD	2017061-02	ND	22.950	25.000	ug/L	2.8	91.8	20	70 - 130
1,4-Dichlorobenzene	MS	2017061-02	ND	24.010	25.000	ug/L		96.0		70 - 130
	MSD	2017061-02	ND	24.830	25.000	ug/L	3.4	99.3	20	70 - 130
1,1-Dichloroethane	MS	2017061-02	ND	21.830	25.000	ug/L		87.3		70 - 130
	MSD	2017061-02	ND	22.700	25.000	ug/L	3.9	90.8	20	70 - 130
1,1-Dichloroethene	MS	2017061-02	ND	22.610	25.000	ug/L		90.4		70 - 130
	MSD	2017061-02	ND	23.480	25.000	ug/L	3.8	93.9	20	70 - 130
Toluene	MS	2017061-02	ND	23.690	25.000	ug/L		94.8		70 - 130
	MSD	2017061-02	ND	24.110	25.000	ug/L	1.8	96.4	20	70 - 130
Trichloroethene	MS	2017061-02	ND	23.050	25.000	ug/L		92.2		70 - 130
	MSD	2017061-02	ND	23.730	25.000	ug/L	2.9	94.9	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	2017061-02	ND	9.8500	10.000	ug/L		98.5		75 - 125
	MSD	2017061-02	ND	9.8700	10.000	ug/L	0.2	98.7		75 - 125
Toluene-d8 (Surrogate)	MS	2017061-02	ND	10.190	10.000	ug/L		102		80 - 120
	MSD	2017061-02	ND	9.9700	10.000	ug/L	2.2	99.7		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	2017061-02	ND	10.120	10.000	ug/L		101		80 - 120
	MSD	2017061-02	ND	10.120	10.000	ug/L	0	101		80 - 120

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080085						
Chloroacetonitrile	B080085-BLK1	0	ug/L			
1-Chlorobutane	B080085-BLK1	0	ug/L			
1,1-Dichloropropanone	B080085-BLK1	0	ug/L			
Methyl acrylate	B080085-BLK1	0	ug/L			
Nitrobenzene	B080085-BLK1	0	ug/L			
2-Nitropropane	B080085-BLK1	0	ug/L			

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Powell, OH 43065

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080194						
Acenaphthene	B080194-BLK1	ND	ug/L	2.0	0.20	
Acenaphthylene	B080194-BLK1	ND	ug/L	2.0	0.20	
Aldrin	B080194-BLK1	ND	ug/L	2.0	0.23	
Aniline	B080194-BLK1	ND	ug/L	5.0	0.28	
Anthracene	B080194-BLK1	ND	ug/L	2.0	0.20	
Benzidine	B080194-BLK1	ND	ug/L	20	1.6	
Benzo[a]anthracene	B080194-BLK1	ND	ug/L	2.0	0.21	
Benzo[b]fluoranthene	B080194-BLK1	ND	ug/L	2.0	0.24	
Benzo[k]fluoranthene	B080194-BLK1	ND	ug/L	2.0	0.30	
Benzo[a]pyrene	B080194-BLK1	ND	ug/L	2.0	0.20	
Benzo[g,h,i]perylene	B080194-BLK1	ND	ug/L	2.0	0.33	
Benzoic acid	B080194-BLK1	ND	ug/L	10	0.52	
Benzyl alcohol	B080194-BLK1	ND	ug/L	2.0	0.20	
Benzyl butyl phthalate	B080194-BLK1	ND	ug/L	2.0	0.20	
alpha-BHC	B080194-BLK1	ND	ug/L	2.0	0.20	
beta-BHC	B080194-BLK1	ND	ug/L	2.0	0.20	
delta-BHC	B080194-BLK1	ND	ug/L	2.0	0.20	
gamma-BHC (Lindane)	B080194-BLK1	ND	ug/L	2.0	0.20	
bis(2-Chloroethoxy)methane	B080194-BLK1	ND	ug/L	2.0	0.20	
bis(2-Chloroethyl) ether	B080194-BLK1	ND	ug/L	2.0	0.31	
bis(2-Chloroisopropyl)ether	B080194-BLK1	ND	ug/L	2.0	0.20	
bis(2-Ethylhexyl)phthalate	B080194-BLK1	ND	ug/L	4.0	0.20	
4-Bromophenyl phenyl ether	B080194-BLK1	ND	ug/L	2.0	0.20	
4-Chloroaniline	B080194-BLK1	ND	ug/L	2.0	1.1	
2-Chloronaphthalene	B080194-BLK1	ND	ug/L	2.0	0.20	
4-Chlorophenyl phenyl ether	B080194-BLK1	ND	ug/L	2.0	0.20	
Chrysene	B080194-BLK1	ND	ug/L	2.0	0.20	
4,4'-DDD	B080194-BLK1	ND	ug/L	2.0	0.26	
4,4'-DDE	B080194-BLK1	ND	ug/L	3.0	0.24	
4,4'-DDT	B080194-BLK1	ND	ug/L	2.0	0.22	
Dibenzo[a,h]anthracene	B080194-BLK1	ND	ug/L	3.0	0.34	
Dibenzofuran	B080194-BLK1	ND	ug/L	2.0	0.20	
1,2-Dichlorobenzene	B080194-BLK1	ND	ug/L	2.0	0.20	
1,3-Dichlorobenzene	B080194-BLK1	ND	ug/L	2.0	0.20	

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080194						
1,4-Dichlorobenzene	B080194-BLK1	ND	ug/L	2.0	0.27	
3,3-Dichlorobenzidine	B080194-BLK1	ND	ug/L	10	0.53	
Dieldrin	B080194-BLK1	ND	ug/L	3.0	0.39	
Diethyl phthalate	B080194-BLK1	ND	ug/L	2.0	0.20	
Dimethyl phthalate	B080194-BLK1	ND	ug/L	2.0	0.20	
Di-n-butyl phthalate	B080194-BLK1	ND	ug/L	2.0	0.20	
2,4-Dinitrotoluene	B080194-BLK1	ND	ug/L	2.0	0.40	
2,6-Dinitrotoluene	B080194-BLK1	ND	ug/L	2.0	0.20	
Di-n-octyl phthalate	B080194-BLK1	ND	ug/L	2.0	0.21	
1,2-Diphenylhydrazine	B080194-BLK1	ND	ug/L	2.0	0.20	
Endosulfan I	B080194-BLK1	ND	ug/L	10	0.31	
Endosulfan II	B080194-BLK1	ND	ug/L	10	0.30	
Endosulfan sulfate	B080194-BLK1	ND	ug/L	3.0	0.23	
Endrin	B080194-BLK1	ND	ug/L	2.0	0.38	
Endrin aldehyde	B080194-BLK1	ND	ug/L	10	0.44	
Fluoranthene	B080194-BLK1	ND	ug/L	2.0	0.28	
Fluorene	B080194-BLK1	ND	ug/L	2.0	0.20	
Heptachlor	B080194-BLK1	ND	ug/L	2.0	0.20	
Heptachlor epoxide	B080194-BLK1	ND	ug/L	2.0	0.26	
Hexachlorobenzene	B080194-BLK1	ND	ug/L	2.0	0.25	
Hexachlorobutadiene	B080194-BLK1	ND	ug/L	2.0	0.20	
Hexachlorocyclopentadiene	B080194-BLK1	ND	ug/L	2.0	0.31	
Hexachloroethane	B080194-BLK1	ND	ug/L	2.0	0.20	
Indeno[1,2,3-cd]pyrene	B080194-BLK1	ND	ug/L	2.0	0.29	
Isophorone	B080194-BLK1	ND	ug/L	2.0	0.20	
2-Methylnaphthalene	B080194-BLK1	ND	ug/L	2.0	0.20	
Naphthalene	B080194-BLK1	ND	ug/L	2.0	0.20	
2-Naphthylamine	B080194-BLK1	ND	ug/L	20	1.3	
2-Nitroaniline	B080194-BLK1	ND	ug/L	2.0	0.20	
3-Nitroaniline	B080194-BLK1	ND	ug/L	2.0	0.22	
4-Nitroaniline	B080194-BLK1	ND	ug/L	5.0	0.38	
Nitrobenzene	B080194-BLK1	ND	ug/L	2.0	0.20	
N-Nitrosodimethylamine	B080194-BLK1	ND	ug/L	2.0	1.2	
N-Nitrosodi-N-propylamine	B080194-BLK1	ND	ug/L	2.0	0.21	

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Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080194						
N-Nitrosodiphenylamine	B080194-BLK1	ND	ug/L	2.0	0.20	
Phenanthrene	B080194-BLK1	ND	ug/L	2.0	0.20	
Pyrene	B080194-BLK1	ND	ug/L	2.0	0.22	
1,2,4-Trichlorobenzene	B080194-BLK1	ND	ug/L	2.0	0.20	
4-Chloro-3-methylphenol	B080194-BLK1	ND	ug/L	5.0	0.20	
2-Chlorophenol	B080194-BLK1	ND	ug/L	2.0	0.20	
2,4-Dichlorophenol	B080194-BLK1	ND	ug/L	2.0	0.23	
2,4-Dimethylphenol	B080194-BLK1	ND	ug/L	2.0	0.20	
4,6-Dinitro-2-methylphenol	B080194-BLK1	ND	ug/L	10	0.24	
2,4-Dinitrophenol	B080194-BLK1	ND	ug/L	10	0.20	
2-Methylphenol	B080194-BLK1	ND	ug/L	2.0	0.20	
3- & 4-Methylphenol	B080194-BLK1	ND	ug/L	2.0	0.40	
Total Methylphenol	B080194-BLK1	ND	ug/L	4.0	0.60	
2-Nitrophenol	B080194-BLK1	ND	ug/L	2.0	0.20	
4-Nitrophenol	B080194-BLK1	ND	ug/L	2.0	0.30	
Pentachlorophenol	B080194-BLK1	ND	ug/L	10	0.40	
Phenol	B080194-BLK1	ND	ug/L	2.0	0.21	
2,4,5-Trichlorophenol	B080194-BLK1	ND	ug/L	5.0	0.20	
2,4,6-Trichlorophenol	B080194-BLK1	ND	ug/L	5.0	0.20	
Acetophenone	B080194-BLK1	ND	ug/L	10	0.33	
2-Acetylaminofluorene	B080194-BLK1	ND	ug/L	10	0.78	
Acrolein, dimethyl acetal	B080194-BLK1	ND	ug/L	40	6.1	
4-Aminobiphenyl	B080194-BLK1	ND	ug/L	20	0.35	
Aramite	B080194-BLK1	ND	ug/L	10	0.35	
Benzaldehyde	B080194-BLK1	ND	ug/L	10	2.9	
Benefin	B080194-BLK1	ND	ug/L	10	0.88	
1,1-Biphenyl	B080194-BLK1	ND	ug/L	10	3.6	
Caprolactam	B080194-BLK1	ND	ug/L	10	3.6	
Carbazole	B080194-BLK1	ND	ug/L	2.0	0.20	
cis-Chlordane	B080194-BLK1	ND	ug/L	5.0	0.59	
trans-Chlordane	B080194-BLK1	ND	ug/L	5.0	0.55	
Chlorobenzilate	B080194-BLK1	ND	ug/L	10	0.27	
1-Chloronaphthalene	B080194-BLK1	ND	ug/L	10	0.37	
cis-Diallate	B080194-BLK1	ND	ug/L	5.0	2.4	

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Powell, OH 43065

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080194						
trans-Diallate	B080194-BLK1	ND	ug/L	5.0	0.56	
Diallate	B080194-BLK1	ND	ug/L	10	3.0	
2,6-Dichlorophenol	B080194-BLK1	ND	ug/L	10	0.28	
Dimethoate	B080194-BLK1	ND	ug/L	20	0.99	
p-(Dimethylamino)azobenzene	B080194-BLK1	ND	ug/L	10	0.27	
7,12-Dimethylbenz[a]anthracene	B080194-BLK1	ND	ug/L	10	0.37	
3,3'-Dimethylbenzidine	B080194-BLK1	ND	ug/L	20	0.42	
a,a-Dimethylphenethylamine	B080194-BLK1	ND	ug/L	20	4.9	
Dimethyl sulfoxide (DMSO)	B080194-BLK1	ND	ug/L	10	9.5	
1,3-Dinitrobenzene	B080194-BLK1	ND	ug/L	10	0.93	
Dinoseb	B080194-BLK1	ND	ug/L	10	0.91	
Diphenylamine	B080194-BLK1	ND	ug/L	10	0.61	
Disulfoton	B080194-BLK1	ND	ug/L	10	0.33	
Ethyl methacrylate	B080194-BLK1	ND	ug/L	10	1.2	
Ethyl methanesulfonate	B080194-BLK1	ND	ug/L	10	0.61	
Ethyl Parathion	B080194-BLK1	ND	ug/L	10	0.53	
Famphur	B080194-BLK1	ND	ug/L	20	4.1	
Hexachlorophene	B080194-BLK1	ND	ug/L	200	20	
Hexachloropropene	B080194-BLK1	ND	ug/L	20	0.23	
Isodrin	B080194-BLK1	ND	ug/L	10	0.43	
cis-Isosafrole	B080194-BLK1	ND	ug/L	5.0	0.44	
trans-Isosafrole	B080194-BLK1	ND	ug/L	5.0	0.29	
Isosafrole	B080194-BLK1	ND	ug/L	10	0.73	
Kepone	B080194-BLK1	ND	ug/L	20	2.2	
Methapyrilene	B080194-BLK1	ND	ug/L	10	2.9	
Methoxychlor	B080194-BLK1	ND	ug/L	10	0.20	
3-Methylcholanthrene	B080194-BLK1	ND	ug/L	10	0.31	
Methyl methacrylate	B080194-BLK1	ND	ug/L	40	3.8	
Methyl methanesulfonate	B080194-BLK1	ND	ug/L	10	0.40	
1-Methylnaphthalene	B080194-BLK1	ND	ug/L	10	0.26	
Methyl parathion	B080194-BLK1	ND	ug/L	10	0.71	
N-Methyl-2-pyrrolidinone	B080194-BLK1	ND	ug/L	10	2.5	
1,4-Naphthoquinone	B080194-BLK1	ND	ug/L	20	0.87	
1-Naphthylamine	B080194-BLK1	ND	ug/L	20	0.30	

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Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080194						
5-Nitro-o-toluidine	B080194-BLK1	ND	ug/L	10	0.85	
4-Nitroquinoline 1-oxide	B080194-BLK1	ND	ug/L	20	0.95	
N-Nitrosodibutylamine	B080194-BLK1	ND	ug/L	10	0.26	
N-Nitrosodiethylamine	B080194-BLK1	ND	ug/L	10	0.55	
N-Nitrosomethylethylamine	B080194-BLK1	ND	ug/L	10	0.61	
N-Nitrosomorpholine	B080194-BLK1	ND	ug/L	10	0.63	
N-Nitrosopiperidine	B080194-BLK1	ND	ug/L	10	0.47	
N-Nitrosopyrrolidine	B080194-BLK1	ND	ug/L	10	0.39	
Pentachlorobenzene	B080194-BLK1	ND	ug/L	10	0.20	
Pentachloroethane	B080194-BLK1	ND	ug/L	20	0.31	
Pentachloronitrobenzene	B080194-BLK1	ND	ug/L	10	0.42	
Phenacetin	B080194-BLK1	ND	ug/L	10	0.75	
1,4-Phenylenediamine	B080194-BLK1	ND	ug/L	20	1.1	
Phorate	B080194-BLK1	ND	ug/L	10	0.35	
2-Picoline	B080194-BLK1	ND	ug/L	10	1.2	
PCB-1260	B080194-BLK1	ND	ug/L	50	25	
PCB-1254	B080194-BLK1	ND	ug/L	50	25	
PCB-1248	B080194-BLK1	ND	ug/L	50	25	
PCB-1242	B080194-BLK1	ND	ug/L	50	25	
PCB-1232	B080194-BLK1	ND	ug/L	50	25	
PCB-1221	B080194-BLK1	ND	ug/L	50	25	
PCB-1016	B080194-BLK1	ND	ug/L	50	25	
PCB-1268	B080194-BLK1	ND	ug/L	50	25	
PCB-1262	B080194-BLK1	ND	ug/L	50	25	
Total PCB's (Summation)	B080194-BLK1	ND	ug/L	50	25	
Prometryn	B080194-BLK1	ND	ug/L	10	1.7	
Pronamide	B080194-BLK1	ND	ug/L	10	0.22	
Propyleneglycol monomethyl ether acetate	B080194-BLK1	ND	ug/L	10	3.7	
Prowl	B080194-BLK1	ND	ug/L	10	0.83	
Pyridine	B080194-BLK1	ND	ug/L	10	1.6	
Safrole	B080194-BLK1	ND	ug/L	10	0.40	
Sulfotep	B080194-BLK1	ND	ug/L	10	0.23	
1,2,4,5-Tetrachlorobenzene	B080194-BLK1	ND	ug/L	10	0.20	
2,3,4,5-Tetrachlorophenol	B080194-BLK1	ND	ug/L	10	5.0	

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Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080194						
2,3,4,6-Tetrachlorophenol	B080194-BLK1	ND	ug/L	10	0.73	
Thionazin	B080194-BLK1	ND	ug/L	10	0.38	
2-Toluidine	B080194-BLK1	ND	ug/L	10	0.41	
Toxaphene	B080194-BLK1	ND	ug/L	100	50	
o,o,o-Triethylphosphorothioate	B080194-BLK1	ND	ug/L	10	0.44	
1,3,5-Trinitrobenzene	B080194-BLK1	ND	ug/L	10	1.4	
Tris(hydroxymethyl)nitromethane	B080194-BLK1	ND	ug/L	50	5.0	
2-Fluorophenol (Surrogate)	B080194-BLK1	80.3	%	30 - 120 (LCL - UCL)		
Phenol-d5 (Surrogate)	B080194-BLK1	39.9	%	12 - 110 (LCL - UCL)		
Nitrobenzene-d5 (Surrogate)	B080194-BLK1	104	%	50 - 130 (LCL - UCL)		
2-Fluorobiphenyl (Surrogate)	B080194-BLK1	88.6	%	55 - 125 (LCL - UCL)		
2,4,6-Tribromophenol (Surrogate)	B080194-BLK1	121	%	40 - 150 (LCL - UCL)		
p-Terphenyl-d14 (Surrogate)	B080194-BLK1	63.9	%	40 - 150 (LCL - UCL)		

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Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: B080194										
Acenaphthene	B080194-BS1	LCS	44.323	50.000	ug/L	88.6		50 - 120		
1,4-Dichlorobenzene	B080194-BS1	LCS	46.051	50.000	ug/L	92.1		50 - 120		
2,4-Dinitrotoluene	B080194-BS1	LCS	51.600	50.000	ug/L	103		50 - 120		
Hexachlorobenzene	B080194-BS1	LCS	57.648	50.000	ug/L	115		60 - 120		
Hexachlorobutadiene	B080194-BS1	LCS	35.030	50.000	ug/L	70.1		40 - 110		
Hexachloroethane	B080194-BS1	LCS	40.762	50.000	ug/L	81.5		40 - 120		
Nitrobenzene	B080194-BS1	LCS	56.083	50.000	ug/L	112		50 - 120		
N-Nitrosodi-N-propylamine	B080194-BS1	LCS	49.507	50.000	ug/L	99.0		50 - 120		
Pyrene	B080194-BS1	LCS	38.544	50.000	ug/L	77.1		40 - 140		
1,2,4-Trichlorobenzene	B080194-BS1	LCS	47.338	50.000	ug/L	94.7		45 - 120		
4-Chloro-3-methylphenol	B080194-BS1	LCS	37.603	50.000	ug/L	75.2		50 - 120		
2-Chlorophenol	B080194-BS1	LCS	37.037	50.000	ug/L	74.1		50 - 120		
2-Methylphenol	B080194-BS1	LCS	34.368	50.000	ug/L	68.7		40 - 110		
3- & 4-Methylphenol	B080194-BS1	LCS	67.920	100.00	ug/L	67.9		40 - 110		
4-Nitrophenol	B080194-BS1	LCS	15.859	50.000	ug/L	31.7		10 - 110		
Pentachlorophenol	B080194-BS1	LCS	41.184	50.000	ug/L	82.4		30 - 130		
Phenol	B080194-BS1	LCS	17.741	50.000	ug/L	35.5		20 - 110		
2,4,6-Trichlorophenol	B080194-BS1	LCS	44.803	50.000	ug/L	89.6		54 - 120		
Pyridine	B080194-BS1	LCS	24.950	50.000	ug/L	49.9		1 - 110		
2-Fluorophenol (Surrogate)	B080194-BS1	LCS	25.565	40.000	ug/L	63.9		30 - 120		
Phenol-d5 (Surrogate)	B080194-BS1	LCS	14.861	40.000	ug/L	37.2		12 - 110		
Nitrobenzene-d5 (Surrogate)	B080194-BS1	LCS	38.976	40.000	ug/L	97.4		50 - 130		
2-Fluorobiphenyl (Surrogate)	B080194-BS1	LCS	35.981	40.000	ug/L	90.0		55 - 125		
2,4,6-Tribromophenol (Surrogate)	B080194-BS1	LCS	53.414	40.000	ug/L	134		40 - 150		
p-Terphenyl-d14 (Surrogate)	B080194-BS1	LCS	14.218	20.000	ug/L	71.1		40 - 150		

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Reported: 06/29/2020 11:19
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Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: B080194		Used client sample: N								
Acenaphthene	MS	2016224-41	ND	37.981	50.000	ug/L		76.0	50 - 120	
	MSD	2016224-41	ND	43.914	50.000	ug/L	14.5	87.8	30	50 - 120
1,4-Dichlorobenzene	MS	2016224-41	ND	35.967	50.000	ug/L		71.9	47 - 120	
	MSD	2016224-41	ND	46.550	50.000	ug/L	25.7	93.1	30	47 - 120
2,4-Dinitrotoluene	MS	2016224-41	ND	46.028	50.000	ug/L		92.1	50 - 130	
	MSD	2016224-41	ND	48.941	50.000	ug/L	6.1	97.9	30	50 - 130
Hexachlorobenzene	MS	2016224-41	ND	48.564	50.000	ug/L		97.1	50 - 120	
	MSD	2016224-41	ND	53.900	50.000	ug/L	10.4	108	30	50 - 120
Hexachlorobutadiene	MS	2016224-41	ND	26.752	50.000	ug/L		53.5	40 - 110	
	MSD	2016224-41	ND	38.034	50.000	ug/L	34.8	76.1	30	40 - 110
Hexachloroethane	MS	2016224-41	ND	31.730	50.000	ug/L		63.5	40 - 120	
	MSD	2016224-41	ND	45.188	50.000	ug/L	35.0	90.4	30	40 - 120
Nitrobenzene	MS	2016224-41	ND	48.982	50.000	ug/L		98.0	50 - 120	
	MSD	2016224-41	ND	56.321	50.000	ug/L	13.9	113	30	50 - 120
N-Nitrosodi-N-propylamine	MS	2016224-41	ND	40.603	50.000	ug/L		81.2	50 - 120	
	MSD	2016224-41	ND	49.559	50.000	ug/L	19.9	99.1	30	50 - 120
Pyrene	MS	2016224-41	ND	29.393	50.000	ug/L		58.8	40 - 140	
	MSD	2016224-41	ND	44.433	50.000	ug/L	40.7	88.9	30	40 - 140
1,2,4-Trichlorobenzene	MS	2016224-41	ND	37.620	50.000	ug/L		75.2	43 - 120	
	MSD	2016224-41	ND	48.373	50.000	ug/L	25.0	96.7	30	43 - 120
4-Chloro-3-methylphenol	MS	2016224-41	ND	34.694	50.000	ug/L		69.4	50 - 120	
	MSD	2016224-41	ND	38.622	50.000	ug/L	10.7	77.2	30	50 - 120
2-Chlorophenol	MS	2016224-41	ND	32.984	50.000	ug/L		66.0	50 - 120	
	MSD	2016224-41	ND	38.837	50.000	ug/L	16.3	77.7	30	50 - 120
2-Methylphenol	MS	2016224-41	ND	30.086	50.000	ug/L		60.2	40 - 110	
	MSD	2016224-41	ND	35.966	50.000	ug/L	17.8	71.9	30	40 - 110
3- & 4-Methylphenol	MS	2016224-41	ND	58.472	100.00	ug/L		58.5	40 - 110	
	MSD	2016224-41	ND	70.668	100.00	ug/L	18.9	70.7	30	40 - 110
4-Nitrophenol	MS	2016224-41	ND	18.487	50.000	ug/L		37.0	10 - 110	
	MSD	2016224-41	ND	16.160	50.000	ug/L	13.4	32.3	30	10 - 110
Pentachlorophenol	MS	2016224-41	ND	39.007	50.000	ug/L		78.0	30 - 120	
	MSD	2016224-41	ND	41.278	50.000	ug/L	5.7	82.6	30	30 - 120
Phenol	MS	2016224-41	ND	15.276	50.000	ug/L		30.6	20 - 110	
	MSD	2016224-41	ND	17.581	50.000	ug/L	14.0	35.2	30	20 - 110
2,4,6-Trichlorophenol	MS	2016224-41	ND	39.396	50.000	ug/L		78.8	50 - 150	
	MSD	2016224-41	ND	43.091	50.000	ug/L	9.0	86.2	30	50 - 150

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Reported: 06/29/2020 11:19
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Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	Percent Recovery		Control Limits		Lab
							RPD	RPD	RPD	Percent Recovery	
QC Batch ID: B080194		Used client sample: N									
Pyridine	MS	2016224-41	ND	ND	50.000	ug/L		0		1 - 110	Q03
	MSD	2016224-41	ND	12.338	50.000	ug/L	200	24.7	30	1 - 110	
2-Fluorophenol (Surrogate)	MS	2016224-41	ND	23.702	40.000	ug/L		59.3		30 - 120	
	MSD	2016224-41	ND	27.224	40.000	ug/L	13.8	68.1		30 - 120	
Phenol-d5 (Surrogate)	MS	2016224-41	ND	11.932	40.000	ug/L		29.8		12 - 110	
	MSD	2016224-41	ND	14.386	40.000	ug/L	18.7	36.0		12 - 110	
Nitrobenzene-d5 (Surrogate)	MS	2016224-41	ND	30.932	40.000	ug/L		77.3		50 - 130	
	MSD	2016224-41	ND	37.789	40.000	ug/L	20.0	94.5		50 - 130	
2-Fluorobiphenyl (Surrogate)	MS	2016224-41	ND	29.868	40.000	ug/L		74.7		55 - 125	
	MSD	2016224-41	ND	33.898	40.000	ug/L	12.6	84.7		55 - 125	
2,4,6-Tribromophenol (Surrogate)	MS	2016224-41	ND	42.560	40.000	ug/L		106		40 - 150	
	MSD	2016224-41	ND	46.815	40.000	ug/L	9.5	117		40 - 150	
p-Terphenyl-d14 (Surrogate)	MS	2016224-41	ND	13.044	20.000	ug/L		65.2		40 - 150	
	MSD	2016224-41	ND	16.317	20.000	ug/L	22.3	81.6		40 - 150	

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Organic Analysis (EPA Method 8270C) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080194						
1-Acetyl-2-thiourea	B080194-BLK1	0	ug/L			
2-Aminoanthraquinone	B080194-BLK1	0	ug/L			
3-Amino-9-ethylcarbazole	B080194-BLK1	0	ug/L			
Anilazine	B080194-BLK1	0	ug/L			
o-Anisidine	B080194-BLK1	0	ug/L			
Azinphos methyl	B080194-BLK1	0	ug/L			
Barban	B080194-BLK1	0	ug/L			
p-Benzoquinone	B080194-BLK1	0	ug/L			
Bromoxynil	B080194-BLK1	0	ug/L			
Captafol	B080194-BLK1	0	ug/L			
Captan	B080194-BLK1	0	ug/L			
Carbaryl	B080194-BLK1	0	ug/L			
Carbofuran	B080194-BLK1	0	ug/L			
Carbophenothion	B080194-BLK1	0	ug/L			
Chlorfenvinphos	B080194-BLK1	0	ug/L			
5-Chloro-2-methylaniline	B080194-BLK1	0	ug/L			
3-(Chloromethyl) pyridine hydrochloride	B080194-BLK1	0	ug/L			
4-Chloro-1,2-phenylenediamine	B080194-BLK1	0	ug/L			
4-Chloro-1,3-phenylenediamine	B080194-BLK1	0	ug/L			
Coumaphos	B080194-BLK1	0	ug/L			
p-Cresidine	B080194-BLK1	0	ug/L			
Crotoxphos	B080194-BLK1	0	ug/L			
2-Cyclohexyl-4,6-dinitrophenol	B080194-BLK1	0	ug/L			
Demeton-O	B080194-BLK1	0	ug/L			
Demeton-S	B080194-BLK1	0	ug/L			
2,4-Diaminotoluene	B080194-BLK1	0	ug/L			
Dibenz[a,j]acridine	B080194-BLK1	0	ug/L			
Dibenzo[a,e]pyrene	B080194-BLK1	0	ug/L			
1,2-Dibromo-3-chloropropane	B080194-BLK1	0	ug/L			
Dichlone	B080194-BLK1	0	ug/L			
Dichlorvos	B080194-BLK1	0	ug/L			
Dicrotophos	B080194-BLK1	0	ug/L			
Diethylstilbestrol	B080194-BLK1	0	ug/L			
Diethyl sulfate	B080194-BLK1	0	ug/L			

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

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080194						
Dihydrosafrole	B080194-BLK1	0	ug/L			
3,3'-Dimethoxybenzidine	B080194-BLK1	0	ug/L			
1,2-Dinitrobenzene	B080194-BLK1	0	ug/L			
1,4-Dinitrobenzene	B080194-BLK1	0	ug/L			
Dinocap	B080194-BLK1	0	ug/L			
Dioxathion	B080194-BLK1	0	ug/L			
5,5-Diphenylhydantoin	B080194-BLK1	0	ug/L			
Endrin ketone	B080194-BLK1	0	ug/L			
EPN	B080194-BLK1	0	ug/L			
Ethion	B080194-BLK1	0	ug/L			
Ethyl carbamate	B080194-BLK1	0	ug/L			
Fensulfothion	B080194-BLK1	0	ug/L			
Fenthion	B080194-BLK1	0	ug/L			
Fluchloralin	B080194-BLK1	0	ug/L			
Hexamethylphosphoramide	B080194-BLK1	0	ug/L			
Hydroquinone	B080194-BLK1	0	ug/L			
Leptophos	B080194-BLK1	0	ug/L			
Malathion	B080194-BLK1	0	ug/L			
Maleic Anhydride	B080194-BLK1	0	ug/L			
Mestranol	B080194-BLK1	0	ug/L			
4,4'-Methylenebis(2-chloroaniline)	B080194-BLK1	0	ug/L			
4,4'-Methylenebis[N,N-dimethylaniline]	B080194-BLK1	0	ug/L			
Mevinphos	B080194-BLK1	0	ug/L			
Mexacarbate	B080194-BLK1	0	ug/L			
Mirex	B080194-BLK1	0	ug/L			
Monocrotophos	B080194-BLK1	0	ug/L			
Naled	B080194-BLK1	0	ug/L			
Nicotine	B080194-BLK1	0	ug/L			
5-Nitroacenaphthene	B080194-BLK1	0	ug/L			
5-Nitro-o-anisidine	B080194-BLK1	0	ug/L			
4-Nitrobiphenyl	B080194-BLK1	0	ug/L			
Nitrophen	B080194-BLK1	0	ug/L			
Octamethylpyrophosphoramide	B080194-BLK1	0	ug/L			
4,4'-Oxydianiline	B080194-BLK1	0	ug/L			

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080194						
Phenobarbital	B080194-BLK1	0	ug/L			
Phosalone	B080194-BLK1	0	ug/L			
Phosmet	B080194-BLK1	0	ug/L			
Phosphamidon	B080194-BLK1	0	ug/L			
Phthalic anhydride	B080194-BLK1	0	ug/L			
Piperonyl sulfoxide	B080194-BLK1	0	ug/L			
Propylthiouracil	B080194-BLK1	0	ug/L			
Resorcinol	B080194-BLK1	0	ug/L			
Strychnine	B080194-BLK1	0	ug/L			
Sulfallate	B080194-BLK1	0	ug/L			
Terbufos	B080194-BLK1	0	ug/L			
Tetrachlorvinphos	B080194-BLK1	0	ug/L			
TEPP	B080194-BLK1	0	ug/L			
Thiophenol (Benzenethiol)	B080194-BLK1	0	ug/L			
Toluene 2,4-diisocyanate	B080194-BLK1	0	ug/L			
Trifluralin	B080194-BLK1	0	ug/L			
2,4,5-Trimethylaniline	B080194-BLK1	0	ug/L			
Trimethyl phosphate	B080194-BLK1	0	ug/L			
Tris(2,3-dibromopropyl) phosphate	B080194-BLK1	0	ug/L			
Tri-p-tolyl phosphate	B080194-BLK1	0	ug/L			

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Powell, OH 43065

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B067953						
Bicarbonate	B067953-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B067953-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B067953-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: B067954						
Bicarbonate	B067954-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B067954-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B067954-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: B080074						
Chloride	B080074-BLK1	ND	mg/L	0.50	0.13	
Nitrate as N	B080074-BLK1	ND	mg/L	0.10	0.024	
Sulfate	B080074-BLK1	ND	mg/L	1.0	0.14	
QC Batch ID: B080107						
Total Dissolved Solids @ 180 C	B080107-BLK1	ND	mg/L	6.7	3.3	
QC Batch ID: B080144						
Nitrite as N	B080144-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: B080145						
Nitrite as N	B080145-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: B080388						
Total Recoverable Calcium	B080388-BLK1	0.015070	mg/L	0.10	0.014	J
Total Recoverable Magnesium	B080388-BLK1	ND	mg/L	0.050	0.019	
Total Recoverable Sodium	B080388-BLK1	ND	mg/L	0.50	0.051	
Total Recoverable Potassium	B080388-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: B080389						
Total Recoverable Calcium	B080389-BLK1	ND	mg/L	0.10	0.014	
Total Recoverable Magnesium	B080389-BLK1	ND	mg/L	0.050	0.019	
Total Recoverable Sodium	B080389-BLK1	ND	mg/L	0.50	0.051	
Total Recoverable Potassium	B080389-BLK1	0.10831	mg/L	1.0	0.10	J
QC Batch ID: B080435						
Perchlorate	B080435-BLK1	ND	ug/L	4.0	0.76	
QC Batch ID: B081060						

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3761 Attucks Drive
Powell, OH 43065

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B081060						
Perchlorate	B081060-BLK1	ND	ug/L	4.0	0.81	

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits		Lab Quals
							RPD	Percent Recovery	
QC Batch ID: B067953									
Total Alkalinity as CaCO3	B067953-BS3	LCS	104.52	100.00	mg/L	105		90 - 110	
pH	B067953-BS2	LCS	7.0000	7.0000	pH Units	100		95 - 105	
QC Batch ID: B067954									
Total Alkalinity as CaCO3	B067954-BS3	LCS	92.190	100.00	mg/L	92.2		90 - 110	
pH	B067954-BS2	LCS	7.0000	7.0000	pH Units	100		95 - 105	
QC Batch ID: B080074									
Chloride	B080074-BS1	LCS	49.799	50.000	mg/L	99.6		90 - 110	
Nitrate as N	B080074-BS1	LCS	4.9810	5.0000	mg/L	99.6		90 - 110	
Sulfate	B080074-BS1	LCS	99.966	100.00	mg/L	100		90 - 110	
QC Batch ID: B080107									
Total Dissolved Solids @ 180 C	B080107-BS1	LCS	590.00	586.00	mg/L	101		90 - 110	
QC Batch ID: B080144									
Nitrite as N	B080144-BS1	LCS	0.54484	0.50000	mg/L	109		90 - 110	
QC Batch ID: B080145									
Nitrite as N	B080145-BS1	LCS	0.52010	0.50000	mg/L	104		90 - 110	
QC Batch ID: B080388									
Total Recoverable Calcium	B080388-BS1	LCS	8.9880	10.000	mg/L	89.9		85 - 115	
Total Recoverable Magnesium	B080388-BS1	LCS	9.0294	10.000	mg/L	90.3		85 - 115	
Total Recoverable Sodium	B080388-BS1	LCS	9.2305	10.000	mg/L	92.3		85 - 115	
Total Recoverable Potassium	B080388-BS1	LCS	9.0207	10.000	mg/L	90.2		85 - 115	
QC Batch ID: B080389									
Total Recoverable Calcium	B080389-BS1	LCS	9.4644	10.000	mg/L	94.6		85 - 115	
Total Recoverable Magnesium	B080389-BS1	LCS	9.4664	10.000	mg/L	94.7		85 - 115	
Total Recoverable Sodium	B080389-BS1	LCS	9.7980	10.000	mg/L	98.0		85 - 115	
Total Recoverable Potassium	B080389-BS1	LCS	9.5110	10.000	mg/L	95.1		85 - 115	
QC Batch ID: B080435									
Perchlorate	B080435-BS1	LCS	9.6627	10.000	ug/L	96.6		85 - 115	
QC Batch ID: B081060									
Perchlorate	B081060-BS1	LCS	9.9373	10.000	ug/L	99.4		85 - 115	

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

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Qualls. Includes multiple QC Batch sections (B067953, B067954, B080074, B080107, B080144, B080145, B080388) with detailed data for various chemical constituents.

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3761 Attucks Drive
Powell, OH 43065

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: B080388		Used client sample: N								
Total Recoverable Magnesium	DUP	2017106-01	16.286	16.342		mg/L	0.3		20	
	MS	2017106-01	16.286	25.630	10.000	mg/L		93.4		75 - 125
	MSD	2017106-01	16.286	25.829	10.000	mg/L	0.8	95.4	20	75 - 125
Total Recoverable Sodium	DUP	2017106-01	117.04	113.51		mg/L	3.1		20	
	MS	2017106-01	117.04	116.69	10.000	mg/L		-3.6		75 - 125
	MSD	2017106-01	117.04	118.69	10.000	mg/L	1.7	16.5	20	75 - 125
Total Recoverable Potassium	DUP	2017106-01	13.994	14.065		mg/L	0.5		20	
	MS	2017106-01	13.994	22.355	10.000	mg/L		83.6		75 - 125
	MSD	2017106-01	13.994	22.539	10.000	mg/L	0.8	85.5	20	75 - 125
QC Batch ID: B080389		Used client sample: N								
Total Recoverable Calcium	DUP	2017134-01	23.785	23.602		mg/L	0.8		20	
	MS	2017134-01	23.785	31.597	10.000	mg/L		78.1		75 - 125
	MSD	2017134-01	23.785	32.115	10.000	mg/L	1.6	83.3	20	75 - 125
Total Recoverable Magnesium	DUP	2017134-01	4.7706	4.6362		mg/L	2.9		20	
	MS	2017134-01	4.7706	14.125	10.000	mg/L		93.5		75 - 125
	MSD	2017134-01	4.7706	14.263	10.000	mg/L	1.0	94.9	20	75 - 125
Total Recoverable Sodium	DUP	2017134-01	37.133	36.168		mg/L	2.6		20	
	MS	2017134-01	37.133	44.307	10.000	mg/L		71.7		75 - 125
	MSD	2017134-01	37.133	45.005	10.000	mg/L	1.6	78.7	20	75 - 125
Total Recoverable Potassium	DUP	2017134-01	8.8541	8.6117		mg/L	2.8		20	
	MS	2017134-01	8.8541	17.695	10.000	mg/L		88.4		75 - 125
	MSD	2017134-01	8.8541	17.868	10.000	mg/L	1.0	90.1	20	75 - 125
QC Batch ID: B080435		Used client sample: N								
Perchlorate	DUP	2016927-02	2.0782	2.0745		ug/L	0.2		15	J
	MS	2016927-02	2.0782	11.375	10.101	ug/L		92.0		80 - 120
	MSD	2016927-02	2.0782	11.678	10.101	ug/L	2.6	95.0	15	80 - 120
QC Batch ID: B081060		Used client sample: N								
Perchlorate	DUP	2017619-09	4.8831	4.8681		ug/L	0.3		15	
	MS	2017619-09	4.8831	15.213	10.101	ug/L		102		80 - 120
	MSD	2017619-09	4.8831	14.857	10.101	ug/L	2.4	98.7	15	80 - 120

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Powell, OH 43065

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080336						
Total Recoverable Arsenic	B080336-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B080336-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B080336-BLK1	ND	ug/L	1.0	0.10	
QC Batch ID: B080337						
Total Recoverable Arsenic	B080337-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B080337-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B080337-BLK1	ND	ug/L	1.0	0.10	
QC Batch ID: B080373						
Hexavalent Chromium	B080373-BLK1	ND	mg/L	0.00020	0.000032	
QC Batch ID: B080388						
Total Recoverable Iron	B080388-BLK1	ND	ug/L	50	30	
QC Batch ID: B080389						
Total Recoverable Iron	B080389-BLK1	ND	ug/L	50	30	

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: B080336										
Total Recoverable Arsenic	B080336-BS1	LCS	100.64	100.00	ug/L	101		85 - 115		
Total Recoverable Chromium	B080336-BS1	LCS	38.279	40.000	ug/L	95.7		85 - 115		
Total Recoverable Lead	B080336-BS1	LCS	100.59	100.00	ug/L	101		85 - 115		
QC Batch ID: B080337										
Total Recoverable Arsenic	B080337-BS1	LCS	111.13	100.00	ug/L	111		85 - 115		
Total Recoverable Chromium	B080337-BS1	LCS	44.042	40.000	ug/L	110		85 - 115		
Total Recoverable Lead	B080337-BS1	LCS	111.37	100.00	ug/L	111		85 - 115		
QC Batch ID: B080373										
Hexavalent Chromium	B080373-BS1	LCS	0.020204	0.020000	mg/L	101		90 - 110		
QC Batch ID: B080388										
Total Recoverable Iron	B080388-BS1	LCS	927.84	1000.0	ug/L	92.8		85 - 115		
QC Batch ID: B080389										
Total Recoverable Iron	B080389-BS1	LCS	975.50	1000.0	ug/L	97.6		85 - 115		

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Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Control Limits Percent Recovery, Lab Quals. Includes QC Batch IDs B080336, B080337, B080373, B080388, and B080389.

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Powell, OH 43065

Reported: 06/29/2020 11:19
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A02 The difference between duplicate readings is less than the quantitation limit.
- A03 The sample concentration was more than 4 times the spike level.
- A07 Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
- Q01 Sample precision is not within the control limits.
- Q02 Matrix spike precision is not within the control limits.
- Q03 Matrix spike recovery(s) was(were) 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.

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Date of Report: 06/24/2020

David Conner

Tidewater Inc. - Powell

3761 Attucks Drive

Powell, OH 43065

Client Project: 2Q20

BCL Project: JPL- GW Monitoring Wells

BCL Work Order: 2017168

Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 6/12/2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda

Client Service Rep

Stuart Buttram

Technical Director

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

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Chain of Custody Form



Required Fields

Report To: Tidewater, Inc.
 Client: David Conner
 Address: 3761 Altucks Drive
 City: Powell State: OH Zip: 43065
 Phone#: 614 298 5715 Fax#: 614 792 2897
 Email Address: david.conner@tidel20.net
 Submission #: 20-11168

Project Description: JPL-GW Monitoring
 Project Code: 2020
 Sampler(s): Blaine Tech

Analysis Requested

Sample #	Sample Description	Date	Time	Matrix*
-1	MB-4-061220	6/12/20	0700	L
-2	MU-3-2		0730	
-3	MU-3-5		1045	
-4	MU-3-4		1130	
-5	MU-3-3		1200	
-6	MU-3-1		1245	
-7	EB-4-061220		1320	

Analysis Requested

Analysis	Requested
VOCS EPA 524.2	<input checked="" type="checkbox"/>
TRM: Cr, Pb, As, Ca, Mg, K	<input checked="" type="checkbox"/>
Na, Fe	<input checked="" type="checkbox"/>
Hexavalent Cr 6 - 218.6 (mg/L)	<input checked="" type="checkbox"/>
Cl, NO3, NO2, SO4, Perch.	<input checked="" type="checkbox"/>
CO3, HCO3, Alk, TDS, pH	<input checked="" type="checkbox"/>
Orthophosphate 365.1	<input checked="" type="checkbox"/>
1,4 Dioxane 8270S/M	<input checked="" type="checkbox"/>
NDMA 1625M	<input checked="" type="checkbox"/>
PAHs, Phthalates, Phenols	<input checked="" type="checkbox"/>

Billing

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

Notes

CHK BY: DISTRIBUTION
Sub JPL MA WMSM
 SUB OUT

DO O2 3000 MPAS COT

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

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

Lab TAT Approval: _____ *Additional Charges May Apply

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

Global ID:
 1. Requisitioned By: _____ Date: 6-12-20 Time: 1350
 2. Requisitioned By: _____ Date: 6-12-20 Time: 1648
 3. Requisitioned By: _____ Date: _____ Time: _____

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

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

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

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 of 1

Submission #: 20-17168

SHIPPING INFORMATION: Fed Ex UPS Ontrac Hand Delivery BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER: Ice Chest None Box Other (Specify) _____

FREE LIQUID: YES NO W / S _____

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers: None Comments: _____

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

COC Received: YES NO Emissivity: 0.95 Container: PE Thermometer ID: 274 Date/Time: 06/12/20

Temperature: (A) 0.8 °C (C) 0.7 °C Analyst Initials: AB 10:48

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										
PLA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A									
40ml VOA VIAL										
QT EPA 1664		ABC	ABC	ABC	ABC	ABC	ABC			
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/509/510										
QT EPA 515.1/E150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270			HLJ							
1oz / 16oz / 32oz AMBER										
1oz / 16oz / 32oz IAR										
OIL SLEEVE										
CB VIAL										
LASTIC BAG										
EDLAR BAG										
ERROUS IRON										
SCORE										
START KIT										
MMA CANISTER										

Comments: _____

Sample Numbering Completed By: GSJ Date/Time: 6/12 1805

Actual / C = Corrected

Rev 23 05/23/2016
 ISAWPDocWoodPesticidLAB_COCCFORMISSAMRECrev 201



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

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2017168-01	COC Number: --- Project Number: Tidewater/JPL Sampling Location: --- Sampling Point: TB-4-061220 Sampled By: Blaine Tech of BTST	Receive Date: 06/12/2020 16:48 Sampling Date: 06/12/2020 07:00 Sample Depth: --- Lab Matrix: Water Sample Type: Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-4-061220 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

2017168-02	COC Number: --- Project Number: Tidewater/JPL Sampling Location: --- Sampling Point: MW-3-2 Sampled By: Blaine Tech of BTST	Receive Date: 06/12/2020 16:48 Sampling Date: 06/12/2020 07:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-3-2 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

2017168-03	COC Number: --- Project Number: Tidewater/JPL Sampling Location: --- Sampling Point: MW-3-5 Sampled By: Blaine Tech of BTST	Receive Date: 06/12/2020 16:48 Sampling Date: 06/12/2020 10:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-3-5 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

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

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2017168-04	COC Number: --- Project Number: Tidewater/JPL Sampling Location: --- Sampling Point: MW-3-4 Sampled By: Blaine Tech of BTST	Receive Date: 06/12/2020 16:48 Sampling Date: 06/12/2020 11:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-3-4 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

2017168-05	COC Number: --- Project Number: Tidewater/JPL Sampling Location: --- Sampling Point: MW-3-3 Sampled By: Blaine Tech of BTST	Receive Date: 06/12/2020 16:48 Sampling Date: 06/12/2020 12:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-3-3 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

2017168-06	COC Number: --- Project Number: Tidewater/JPL Sampling Location: --- Sampling Point: MW-3-1 Sampled By: Blaine Tech of BTST	Receive Date: 06/12/2020 16:48 Sampling Date: 06/12/2020 12:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-3-1 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

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Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2017168-07	COC Number:	---	Receive Date:	06/12/2020 16:48
	Project Number:	Tidewater/JPL	Sampling Date:	06/12/2020 12:20
	Sampling Location:	---	Sample Depth:	---
	Sampling Point:	EB-4-061220	Lab Matrix:	Water
	Sampled By:	Blaine Tech of BTST	Sample Type:	Water
			Delivery Work Order:	
			Global ID:	0000000000
			Location ID (FieldPoint):	EB-4-061220
			Matrix:	WG
			Sample QC Type (SACode):	CS
		Cooler ID:		

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3761 Attucks Drive
Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2017168-01) and Client Sample Name (Tidewater/JPL, TB-4-061220, 6/12/2020 7:00:00AM, Blaine Tech)

Main data table with columns: Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Lists various VOCs like Benzene, Bromobenzene, etc.

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Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2017168-01) and Client Sample Name (Tidewater/JPL, TB-4-061220, 6/12/2020 7:00:00AM, Blaine Tech)

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

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Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017168-01	Client Sample Name: Tidewater/JPL, TB-4-061220, 6/12/2020 7:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	99.8	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/17/20 07:00	06/17/20 11:18	MGC	MS-V5	1	B080341	EPA 524.2

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

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017168-01	Client Sample Name: Tidewater/JPL, TB-4-061220, 6/12/2020 7:00:00AM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/17/20 07:00	06/17/20	11:18	MGC	MS-V5	1	B080341	EPA 524.2

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

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017168-02	Client Sample Name: Tidewater/JPL, MW-3-2, 6/12/2020 7:30:00AM, Blaine Tech
----------------------------------	--

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

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

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017168-02		Client Sample Name: Tidewater/JPL, MW-3-2, 6/12/2020 7:30:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND	V11	1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND	V11	1
1,1,1-Trichloroethane	ND	ug/L	0.50	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	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017168-02	Client Sample Name: Tidewater/JPL, MW-3-2, 6/12/2020 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	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)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/17/20 07:00	06/17/20 08:12	MGC	MS-V5	1	B080341	EPA 524.2

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Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017168-02	Client Sample Name: Tidewater/JPL, MW-3-2, 6/12/2020 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/17/20 07:00	06/17/20	08:12	MGC	MS-V5	1	B080341	EPA 524.2

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2017168-02 Client Sample Name: Tidewater/JPL, MW-3-2, 6/12/2020 7:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Acenaphthylene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Aldrin	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
Aniline	ND	ug/L	5.0	0.28	EPA-8270C	ND		1
Anthracene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzidine	ND	ug/L	20	1.6	EPA-8270C	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
Benzoic acid	ND	ug/L	10	0.52	EPA-8270C	ND		1
Benzyl alcohol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
alpha-BHC	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
beta-BHC	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
delta-BHC	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
bis(2-Chloroisopropyl) ether	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
bis(2-Ethylhexyl)phthalate	ND	ug/L	4.0	0.20	EPA-8270C	ND		1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4-Chloroaniline	ND	ug/L	2.0	1.1	EPA-8270C	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Chrysene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4,4'-DDD	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
4,4'-DDE	ND	ug/L	3.0	0.24	EPA-8270C	ND		1
4,4'-DDT	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	0.34	EPA-8270C	ND		1
Dibenzofuran	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1

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Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	2017168-02	Client Sample Name:	Tidewater/JPL, MW-3-2, 6/12/2020 7:30:00AM, Blaine Tech					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	0.53	EPA-8270C	ND		1
Dieldrin	ND	ug/L	3.0	0.39	EPA-8270C	ND		1
Diethyl phthalate	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.40	EPA-8270C	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Endosulfan I	ND	ug/L	10	0.31	EPA-8270C	ND		1
Endosulfan II	ND	ug/L	10	0.30	EPA-8270C	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.23	EPA-8270C	ND		1
Endrin	ND	ug/L	2.0	0.38	EPA-8270C	ND		1
Endrin aldehyde	ND	ug/L	10	0.44	EPA-8270C	ND		1
Fluoranthene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Fluorene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Heptachlor	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
Hexachlorobenzene	ND	ug/L	2.0	0.25	EPA-8270C	ND		1
Hexachlorobutadiene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Hexachlorocyclopentadiene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
Hexachloroethane	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.29	EPA-8270C	ND		1
Isophorone	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Naphthalene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2-Naphthylamine	ND	ug/L	20	1.3	EPA-8270C	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.38	EPA-8270C	ND		1
Nitrobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1

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Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2017168-02		Client Sample Name: Tidewater/JPL, MW-3-2, 6/12/2020 7:30:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.0	1.2	EPA-8270C	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Pyrene	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.20	EPA-8270C	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.24	EPA-8270C	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-8270C	ND		1
2-Methylphenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	0.40	EPA-8270C	ND		1
Total Methylphenol	ND	ug/L	4.0	0.60	EPA-8270C	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Pentachlorophenol	ND	ug/L	10	0.40	EPA-8270C	ND		1
Phenol	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.20	EPA-8270C	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.20	EPA-8270C	ND		1
Acetophenone	ND	ug/L	10	0.33	EPA-8270C	ND		1
2-Acetylaminofluorene	ND	ug/L	10	0.78	EPA-8270C	ND		1
Acrolein, dimethyl acetal	ND	ug/L	40	6.1	EPA-8270C	ND		1
4-Aminobiphenyl	ND	ug/L	20	0.35	EPA-8270C	ND		1
Aramite	ND	ug/L	10	0.35	EPA-8270C	ND		1
Benzaldehyde	ND	ug/L	10	2.9	EPA-8270C	ND		1
Benefin	ND	ug/L	10	0.88	EPA-8270C	ND		1
1,1-Biphenyl	ND	ug/L	10	3.6	EPA-8270C	ND		1
Caprolactam	ND	ug/L	10	3.6	EPA-8270C	ND		1
Carbazole	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
cis-Chlordane	ND	ug/L	5.0	0.59	EPA-8270C	ND		1
trans-Chlordane	ND	ug/L	5.0	0.55	EPA-8270C	ND		1

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Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2017168-02		Client Sample Name: Tidewater/JPL, MW-3-2, 6/12/2020 7:30:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chlorobenzilate	ND	ug/L	10	0.27	EPA-8270C	ND		1
1-Chloronaphthalene	ND	ug/L	10	0.37	EPA-8270C	ND		1
cis-Diallate	ND	ug/L	5.0	2.4	EPA-8270C	ND		1
trans-Diallate	ND	ug/L	5.0	0.56	EPA-8270C	ND		1
Diallate	ND	ug/L	10	3.0	EPA-8270C	ND		1
2,6-Dichlorophenol	ND	ug/L	10	0.28	EPA-8270C	ND		1
Dimethoate	ND	ug/L	20	0.99	EPA-8270C	ND		1
p-(Dimethylamino)azobenzene	ND	ug/L	10	0.27	EPA-8270C	ND		1
7,12-Dimethylbenz[a]anthracene	ND	ug/L	10	0.37	EPA-8270C	ND		1
3,3'-Dimethylbenzidine	ND	ug/L	20	0.42	EPA-8270C	ND		1
a,a-Dimethylphenethylamine	ND	ug/L	20	4.9	EPA-8270C	ND		1
Dimethyl sulfoxide (DMSO)	ND	ug/L	10	9.5	EPA-8270C	ND		1
1,3-Dinitrobenzene	ND	ug/L	10	0.93	EPA-8270C	ND		1
Dinoseb	ND	ug/L	10	0.91	EPA-8270C	ND		1
Diphenylamine	ND	ug/L	10	0.61	EPA-8270C	ND		1
Disulfoton	ND	ug/L	10	0.33	EPA-8270C	ND		1
Ethyl methacrylate	ND	ug/L	10	1.2	EPA-8270C	ND		1
Ethyl methanesulfonate	ND	ug/L	10	0.61	EPA-8270C	ND		1
Ethyl Parathion	ND	ug/L	10	0.53	EPA-8270C	ND		1
Famphur	ND	ug/L	20	4.1	EPA-8270C	ND		1
Hexachlorophene	ND	ug/L	200	20	EPA-8270C	ND		1
Hexachloropropene	ND	ug/L	20	0.23	EPA-8270C	ND		1
Isodrin	ND	ug/L	10	0.43	EPA-8270C	ND		1
cis-Isosafrole	ND	ug/L	5.0	0.44	EPA-8270C	ND		1
trans-Isosafrole	ND	ug/L	5.0	0.29	EPA-8270C	ND		1
Isosafrole	ND	ug/L	10	0.73	EPA-8270C	ND		1
Kepone	ND	ug/L	20	2.2	EPA-8270C	ND		1
Methapyrilene	ND	ug/L	10	2.9	EPA-8270C	ND		1
Methoxychlor	ND	ug/L	10	0.20	EPA-8270C	ND		1
3-Methylcholanthrene	ND	ug/L	10	0.31	EPA-8270C	ND		1
Methyl methacrylate	ND	ug/L	40	3.8	EPA-8270C	ND		1
Methyl methanesulfonate	ND	ug/L	10	0.40	EPA-8270C	ND		1
1-Methylnaphthalene	ND	ug/L	10	0.26	EPA-8270C	ND		1

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Tidewater Inc. - Powell 3761 Attucks Drive Powell, OH 43065	Reported: 06/24/2020 17:31 Project: JPL- GW Monitoring Wells Project Number: 2Q20 Project Manager: David Conner
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Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2017168-02	Client Sample Name: Tidewater/JPL, MW-3-2, 6/12/2020 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Methyl parathion	ND	ug/L	10	0.71	EPA-8270C	ND		1
N-Methyl-2-pyrrolidinone	ND	ug/L	10	2.5	EPA-8270C	ND		1
1,4-Naphthoquinone	ND	ug/L	20	0.87	EPA-8270C	ND		1
1-Naphthylamine	ND	ug/L	20	0.30	EPA-8270C	ND		1
5-Nitro-o-toluidine	ND	ug/L	10	0.85	EPA-8270C	ND		1
4-Nitroquinoline 1-oxide	ND	ug/L	20	0.95	EPA-8270C	ND		1
N-Nitrosodibutylamine	ND	ug/L	10	0.26	EPA-8270C	ND		1
N-Nitrosodiethylamine	ND	ug/L	10	0.55	EPA-8270C	ND		1
N-Nitrosomethylethylamine	ND	ug/L	10	0.61	EPA-8270C	ND		1
N-Nitrosomorpholine	ND	ug/L	10	0.63	EPA-8270C	ND		1
N-Nitrosopiperidine	ND	ug/L	10	0.47	EPA-8270C	ND		1
N-Nitrosopyrrolidine	ND	ug/L	10	0.39	EPA-8270C	ND		1
Pentachlorobenzene	ND	ug/L	10	0.20	EPA-8270C	ND		1
Pentachloroethane	ND	ug/L	20	0.31	EPA-8270C	ND		1
Pentachloronitrobenzene	ND	ug/L	10	0.42	EPA-8270C	ND		1
Phenacetin	ND	ug/L	10	0.75	EPA-8270C	ND		1
1,4-Phenylenediamine	ND	ug/L	20	1.1	EPA-8270C	ND		1
Phorate	ND	ug/L	10	0.35	EPA-8270C	ND		1
2-Picoline	ND	ug/L	10	1.2	EPA-8270C	ND		1
PCB-1016	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1221	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1232	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1242	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1248	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1254	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1260	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1262	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1268	ND	ug/L	50	25	EPA-8270C	ND		1
Total PCB's (Summation)	ND	ug/L	50	25	EPA-8270C	ND		1
Prometryn	ND	ug/L	10	1.7	EPA-8270C	ND		1
Pronamide	ND	ug/L	10	0.22	EPA-8270C	ND		1
Propyleneglycol monomethyl ether acetate	ND	ug/L	10	3.7	EPA-8270C	ND		1
Prowl	ND	ug/L	10	0.83	EPA-8270C	ND		1

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Table with 2 columns: BCL Sample ID (2017168-02) and Client Sample Name (Tidewater/JPL, MW-3-2, 6/12/2020 7:30:00AM, Blaine Tech)

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

QC table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, Batch ID, Prep Method. Contains one row of QC data.

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

BCL Sample ID: 2017168-02		Client Sample Name: Tidewater/JPL, MW-3-2, 6/12/2020 7:30:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1-Acetyl-2-thiourea	0	ug/L			EPA-8270C	0		1
2-Aminoanthraquinone	0	ug/L			EPA-8270C	0		1
3-Amino-9-ethylcarbazole	0	ug/L			EPA-8270C	0		1
Anilazine	0	ug/L			EPA-8270C	0		1
o-Anisidine	0	ug/L			EPA-8270C	0		1
Azinphos methyl	0	ug/L			EPA-8270C	0		1
Barban	0	ug/L			EPA-8270C	0		1
p-Benzoquinone	0	ug/L			EPA-8270C	0		1
Bromoxynil	0	ug/L			EPA-8270C	0		1
Captafol	0	ug/L			EPA-8270C	0		1
Captan	0	ug/L			EPA-8270C	0		1
Carbaryl	0	ug/L			EPA-8270C	0		1
Carbofuran	0	ug/L			EPA-8270C	0		1
Carbophenothion	0	ug/L			EPA-8270C	0		1
Chlorfenvinphos	0	ug/L			EPA-8270C	0		1
5-Chloro-2-methylaniline	0	ug/L			EPA-8270C	0		1
3-(Chloromethyl) pyridine hydrochloride	0	ug/L			EPA-8270C	0		1
4-Chloro-1,2-phenylenediamine	0	ug/L			EPA-8270C	0		1
4-Chloro-1,3-phenylenediamine	0	ug/L			EPA-8270C	0		1
Coumaphos	0	ug/L			EPA-8270C	0		1
p-Cresidine	0	ug/L			EPA-8270C	0		1
Crotoxyphos	0	ug/L			EPA-8270C	0		1
2-Cyclohexyl-4,6-dinitrophenol	0	ug/L			EPA-8270C	0		1
Demeton-O	0	ug/L			EPA-8270C	0		1
Demeton-S	0	ug/L			EPA-8270C	0		1
2,4-Diaminotoluene	0	ug/L			EPA-8270C	0		1
Dibenz[a,j]acridine	0	ug/L			EPA-8270C	0		1
Dibenzo[a,e]pyrene	0	ug/L			EPA-8270C	0		1
1,2-Dibromo-3-chloropropane	0	ug/L			EPA-8270C	0		1
Dichlone	0	ug/L			EPA-8270C	0		1
Dichlorvos	0	ug/L			EPA-8270C	0		1
Dicrotophos	0	ug/L			EPA-8270C	0		1
Diethylstilbestrol	0	ug/L			EPA-8270C	0		1

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

BCL Sample ID: 2017168-02		Client Sample Name: Tidewater/JPL, MW-3-2, 6/12/2020 7:30:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl sulfate	0	ug/L			EPA-8270C	0		1
Dihydrosafrole	0	ug/L			EPA-8270C	0		1
3,3'-Dimethoxybenzidine	0	ug/L			EPA-8270C	0		1
1,2-Dinitrobenzene	0	ug/L			EPA-8270C	0		1
1,4-Dinitrobenzene	0	ug/L			EPA-8270C	0		1
Dinocap	0	ug/L			EPA-8270C	0		1
Dioxathion	0	ug/L			EPA-8270C	0		1
5,5-Diphenylhydantoin	0	ug/L			EPA-8270C	0		1
Endrin ketone	0	ug/L			EPA-8270C	0		1
EPN	0	ug/L			EPA-8270C	0		1
Ethion	0	ug/L			EPA-8270C	0		1
Ethyl carbamate	0	ug/L			EPA-8270C	0		1
Fensulfothion	0	ug/L			EPA-8270C	0		1
Fenthion	0	ug/L			EPA-8270C	0		1
Fluchloralin	0	ug/L			EPA-8270C	0		1
Hexamethylphosphoramide	0	ug/L			EPA-8270C	0		1
Hydroquinone	0	ug/L			EPA-8270C	0		1
Leptophos	0	ug/L			EPA-8270C	0		1
Malathion	0	ug/L			EPA-8270C	0		1
Maleic Anhydride	0	ug/L			EPA-8270C	0		1
Mestranol	0	ug/L			EPA-8270C	0		1
4,4'-Methylenebis(2-chloroaniline)	0	ug/L			EPA-8270C	0		1
4,4'-Methylenebis[N,N-dimethylaniline]	0	ug/L			EPA-8270C	0		1
Mevinphos	0	ug/L			EPA-8270C	0		1
Mexacarbate	0	ug/L			EPA-8270C	0		1
Mirex	0	ug/L			EPA-8270C	0		1
Monocrotophos	0	ug/L			EPA-8270C	0		1
Naled	0	ug/L			EPA-8270C	0		1
Nicotine	0	ug/L			EPA-8270C	0		1
5-Nitroacenaphthene	0	ug/L			EPA-8270C	0		1
5-Nitro-o-anisidine	0	ug/L			EPA-8270C	0		1
4-Nitrobiphenyl	0	ug/L			EPA-8270C	0		1
Nitrophen	0	ug/L			EPA-8270C	0		1

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

Table with 2 columns: BCL Sample ID (2017168-02) and Client Sample Name (Tidewater/JPL, MW-3-2, 6/12/2020 7:30:00AM, Blaine Tech)

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

QC summary table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, Batch ID, Prep Method.

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2017168-02		Client Sample Name: Tidewater/JPL, MW-3-2, 6/12/2020 7:30:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	67	mg/L	0.10	0.014	EPA-200.7	ND		1	
Total Recoverable Magnesium	21	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	22	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	2.9	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	250	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	210	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	15	mg/L	0.50	0.13	EPA-300.0	ND		3	
Nitrate as N	0.68	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	49	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	7.48	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	370	mg/L	20	10	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time	Date/Time				Batch ID	Prep Method
1	EPA-200.7	06/17/20 12:15	06/18/20 12:54		JRG	PE-OP4	1	B080426	EPA 200.2
2	SM-2320B	06/17/20 08:00	06/17/20 09:15		MEV	MET-1	1	B067958	No Prep
3	EPA-300.0	06/12/20 20:00	06/12/20 23:19		CMM	IC5	1	B080152	No Prep
4	EPA-150.1	06/17/20 08:00	06/17/20 09:15		MEV	MET-1	1	B067958	No Prep
5	EPA-160.1	06/16/20 13:00	06/16/20 13:00		CAD	MANUAL	2	B080273	No Prep
6	EPA-353.2	06/12/20 19:00	06/12/20 19:59		CMM	KONE-1	1	B080324	No Prep
7	EPA-314.0	06/18/20 10:00	06/18/20 19:09		KB1	IC6	1	B080503	No Prep

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017168-02	Client Sample Name: Tidewater/JPL, MW-3-2, 6/12/2020 7:30:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00036	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	0.78	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	540	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/16/20 19:00	06/16/20 19:00	06/16/20 22:26	CMM	IC-4	1	B080374	No Prep
2	EPA-200.8	06/16/20 20:20	06/16/20 20:20	06/18/20 19:06	AS1	PE-EL4	1	B080337	EPA 200.2
3	EPA-200.7	06/17/20 12:15	06/17/20 12:15	06/18/20 12:54	JRG	PE-OP4	1	B080426	EPA 200.2

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2017168-03	Client Sample Name:	Tidewater/JPL, MW-3-5, 6/12/2020 10:45:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1	
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1	
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1	
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1	
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1	
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1	
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017168-03	Client Sample Name: Tidewater/JPL, MW-3-5, 6/12/2020 10:45:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND	V11	1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND	V11	1
1,1,1-Trichloroethane	ND	ug/L	0.50	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	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017168-03	Client Sample Name: Tidewater/JPL, MW-3-5, 6/12/2020 10:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	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)	96.3	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/17/20 07:00	06/17/20 11:42	MGC	MS-V5	1	B080341	EPA 524.2

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

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017168-03	Client Sample Name: Tidewater/JPL, MW-3-5, 6/12/2020 10:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/17/20 07:00	06/17/20	11:42	MGC	MS-V5	1	B080341	EPA 524.2

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Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2017168-03		Client Sample Name: Tidewater/JPL, MW-3-5, 6/12/2020 10:45:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	70	mg/L	0.10	0.014	EPA-200.7	ND		1	
Total Recoverable Magnesium	21	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	33	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	2.8	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	230	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	190	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	32	mg/L	0.50	0.13	EPA-300.0	ND		3	
Nitrate as N	1.8	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	47	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	7.60	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	370	mg/L	20	10	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	2.6	ug/L	4.0	0.81	EPA-314.0	ND	J	7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/17/20 12:15	06/18/20 12:56		JRG	PE-OP4	1	B080426	EPA 200.2
2	SM-2320B	06/17/20 08:00	06/17/20 09:28		MEV	MET-1	1	B067958	No Prep
3	EPA-300.0	06/12/20 20:00	06/13/20 00:31		CMM	IC5	1	B080152	No Prep
4	EPA-150.1	06/17/20 08:00	06/17/20 09:28		MEV	MET-1	1	B067958	No Prep
5	EPA-160.1	06/16/20 13:00	06/16/20 13:00		CAD	MANUAL	2	B080273	No Prep
6	EPA-353.2	06/12/20 19:00	06/12/20 19:59		CMM	KONE-1	1	B080324	No Prep
7	EPA-314.0	06/18/20 10:00	06/18/20 20:49		SAV	IC6	1	B080503	No Prep

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Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017168-03	Client Sample Name: Tidewater/JPL, MW-3-5, 6/12/2020 10:45:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00034	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	77	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	140	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	71000	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/16/20 19:00	06/16/20 23:38		SAV	IC-4	1	B080374	No Prep
2	EPA-200.8	06/16/20 20:20	06/18/20 19:08		AS1	PE-EL4	1	B080337	EPA 200.2
3	EPA-200.7	06/17/20 12:15	06/18/20 12:56		JRG	PE-OP4	1	B080426	EPA 200.2

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017168-04	Client Sample Name: Tidewater/JPL, MW-3-4, 6/12/2020 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2017168-04	Client Sample Name:	Tidewater/JPL, MW-3-4, 6/12/2020 11:30:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1	
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND	V11	1	
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1	
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1	
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND	V11	1	
1,1,1-Trichloroethane	ND	ug/L	0.50	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	10	9.4	EPA-524.2	ND		1	
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1	

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Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017168-04	Client Sample Name: Tidewater/JPL, MW-3-4, 6/12/2020 11:30:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	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)	96.6	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/17/20 07:00	06/17/20 12:06	MGC	MS-V5	1	B080341	EPA 524.2

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Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017168-04	Client Sample Name: Tidewater/JPL, MW-3-4, 6/12/2020 11:30:00AM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/17/20 07:00	06/17/20	12:06	MGC	MS-V5	1	B080341	EPA 524.2

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2017168-04		Client Sample Name: Tidewater/JPL, MW-3-4, 6/12/2020 11:30:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	68	mg/L	0.10	0.014	EPA-200.7	ND		1	
Total Recoverable Magnesium	21	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	33	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	2.9	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	240	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	190	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	31	mg/L	0.50	0.13	EPA-300.0	ND		3	
Nitrate as N	1.7	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	46	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	7.71	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	370	mg/L	20	10	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	3.0	ug/L	4.0	0.81	EPA-314.0	ND	J	7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time	Date/Time				Batch ID	Prep Method
1	EPA-200.7	06/17/20 12:15	06/18/20 12:58		JRG	PE-OP4	1	B080426	EPA 200.2
2	SM-2320B	06/17/20 08:00	06/17/20 09:36		MEV	MET-1	1	B067958	No Prep
3	EPA-300.0	06/12/20 20:00	06/13/20 00:49		CMM	IC5	1	B080152	No Prep
4	EPA-150.1	06/17/20 08:00	06/17/20 09:36		MEV	MET-1	1	B067958	No Prep
5	EPA-160.1	06/16/20 13:00	06/16/20 13:00		CAD	MANUAL	2	B080273	No Prep
6	EPA-353.2	06/12/20 19:00	06/12/20 19:59		CMM	KONE-1	1	B080324	No Prep
7	EPA-314.0	06/18/20 10:00	06/18/20 21:05		SAV	IC6	1	B080503	No Prep

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Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017168-04	Client Sample Name: Tidewater/JPL, MW-3-4, 6/12/2020 11:30:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00031	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	26	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	44	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	18000	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/16/20 19:00	06/16/20	23:48	SAV	IC-4	1	B080374	No Prep
2	EPA-200.8	06/16/20 20:20	06/18/20	19:11	AS1	PE-EL4	1	B080337	EPA 200.2
3	EPA-200.7	06/17/20 12:15	06/18/20	12:58	JRG	PE-OP4	1	B080426	EPA 200.2

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

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017168-05	Client Sample Name: Tidewater/JPL, MW-3-3, 6/12/2020 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017168-05	Client Sample Name: Tidewater/JPL, MW-3-3, 6/12/2020 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND	V11	1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND	V11	1
1,1,1-Trichloroethane	ND	ug/L	0.50	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	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017168-05	Client Sample Name: Tidewater/JPL, MW-3-3, 6/12/2020 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	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)	98.1	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/17/20 07:00	06/17/20 12:30	MGC	MS-V5	1	B080341	EPA 524.2

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Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017168-05	Client Sample Name: Tidewater/JPL, MW-3-3, 6/12/2020 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/17/20 07:00	06/17/20	12:30	MGC	MS-V5	1	B080341	EPA 524.2

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2017168-05		Client Sample Name: Tidewater/JPL, MW-3-3, 6/12/2020 12:00:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	66	mg/L	0.10	0.014	EPA-200.7	ND		1	
Total Recoverable Magnesium	20	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	28	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	2.8	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	230	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	190	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	25	mg/L	0.50	0.13	EPA-300.0	ND		3	
Nitrate as N	1.3	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	46	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	7.55	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	370	mg/L	20	10	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	2.0	ug/L	4.0	0.81	EPA-314.0	ND	J	7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/17/20 12:15	06/18/20 13:01		JRG	PE-OP4	1	B080426	EPA 200.2
2	SM-2320B	06/17/20 08:00	06/17/20 09:43		MEV	MET-1	1	B067958	No Prep
3	EPA-300.0	06/12/20 20:00	06/13/20 01:07		CMM	IC5	1	B080152	No Prep
4	EPA-150.1	06/17/20 08:00	06/17/20 09:43		MEV	MET-1	1	B067958	No Prep
5	EPA-160.1	06/16/20 13:00	06/16/20 13:00		CAD	MANUAL	2	B080273	No Prep
6	EPA-353.2	06/12/20 19:00	06/12/20 19:59		CMM	KONE-1	1	B080324	No Prep
7	EPA-314.0	06/18/20 10:00	06/18/20 21:22		SAV	IC6	1	B080503	No Prep

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017168-05		Client Sample Name: Tidewater/JPL, MW-3-3, 6/12/2020 12:00:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Hexavalent Chromium	0.00038	mg/L	0.00020	0.000032	EPA-218.6	ND		1	
Total Recoverable Arsenic	2.4	ug/L	2.0	0.70	EPA-200.8	ND		2	
Total Recoverable Chromium	4.6	ug/L	3.0	0.50	EPA-200.8	ND		2	
Total Recoverable Iron	9300	ug/L	50	30	EPA-200.7	ND		3	
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/16/20 19:00	06/16/20	23:58	SAV	IC-4	1	B080374	No Prep
2	EPA-200.8	06/17/20 10:20	06/19/20	13:11	JNC	PE-EL2	1	B080390	EPA 200.2
3	EPA-200.7	06/17/20 12:15	06/18/20	13:01	JRG	PE-OP4	1	B080426	EPA 200.2

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017168-06	Client Sample Name: Tidewater/JPL, MW-3-1, 6/12/2020 12:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017168-06	Client Sample Name: Tidewater/JPL, MW-3-1, 6/12/2020 12:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND	V11	1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND	V11	1
1,1,1-Trichloroethane	ND	ug/L	0.50	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	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017168-06	Client Sample Name: Tidewater/JPL, MW-3-1, 6/12/2020 12:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	99.6	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/17/20 07:00	06/17/20 12:54	MGC	MS-V5	1	B080341	EPA 524.2

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Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017168-06	Client Sample Name: Tidewater/JPL, MW-3-1, 6/12/2020 12:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/17/20 07:00	06/17/20	12:54	MGC	MS-V5	1	B080341	EPA 524.2

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2017168-06		Client Sample Name: Tidewater/JPL, MW-3-1, 6/12/2020 12:45:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	53	mg/L	0.10	0.014	EPA-200.7	ND		1	
Total Recoverable Magnesium	18	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	23	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	2.9	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	220	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	180	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	9.8	mg/L	0.50	0.13	EPA-300.0	ND		3	
Nitrate as N	0.13	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	32	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	7.91	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	300	mg/L	20	10	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/17/20 12:15	06/18/20 13:03		JRG	PE-OP4	1	B080426	EPA 200.2
2	SM-2320B	06/17/20 08:00	06/17/20 09:51		MEV	MET-1	1	B067958	No Prep
3	EPA-300.0	06/12/20 20:00	06/13/20 01:24		CMM	IC5	1	B080152	No Prep
4	EPA-150.1	06/17/20 08:00	06/17/20 09:51		MEV	MET-1	1	B067958	No Prep
5	EPA-160.1	06/16/20 13:00	06/16/20 13:00		CAD	MANUAL	2	B080273	No Prep
6	EPA-353.2	06/12/20 19:00	06/12/20 19:59		CMM	KONE-1	1	B080324	No Prep
7	EPA-314.0	06/18/20 10:00	06/18/20 21:39		SAV	IC6	1	B080503	No Prep

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Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017168-06	Client Sample Name: Tidewater/JPL, MW-3-1, 6/12/2020 12:45:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000076	mg/L	0.00020	0.000032	EPA-218.6	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	250	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/16/20 19:00	06/17/20 00:07		SAV	IC-4	1	B080374	No Prep
2	EPA-200.8	06/17/20 10:20	06/19/20 12:54		JNC	PE-EL2	1	B080390	EPA 200.2
3	EPA-200.7	06/17/20 12:15	06/18/20 13:03		JRG	PE-OP4	1	B080426	EPA 200.2

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017168-07	Client Sample Name: Tidewater/JPL, EB-4-061220, 6/12/2020 12:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017168-07	Client Sample Name: Tidewater/JPL, EB-4-061220, 6/12/2020 12:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND	V11	1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND	V11	1
1,1,1-Trichloroethane	ND	ug/L	0.50	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	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017168-07	Client Sample Name: Tidewater/JPL, EB-4-061220, 6/12/2020 12:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	99.6	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/17/20 07:00	06/17/20 13:18	MGC	MS-V5	1	B080341	EPA 524.2

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017168-07	Client Sample Name: Tidewater/JPL, EB-4-061220, 6/12/2020 12:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/17/20 07:00	06/17/20	13:18	MGC	MS-V5	1	B080341	EPA 524.2

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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Powell, OH 43065

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017168-07	Client Sample Name: Tidewater/JPL, EB-4-061220, 6/12/2020 12:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000039	mg/L	0.00020	0.000032	EPA-218.6	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/16/20 19:00	06/17/20	00:17	SAV	IC-4	1	B080374	No Prep
2	EPA-200.8	06/17/20 10:20	06/19/20	12:56	JNC	PE-EL2	1	B080390	EPA 200.2
3	EPA-200.7	06/17/20 12:15	06/18/20	13:05	JRG	PE-OP4	1	B080426	EPA 200.2

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080341						
Benzene	B080341-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B080341-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B080341-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B080341-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B080341-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B080341-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B080341-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B080341-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B080341-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B080341-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B080341-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B080341-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B080341-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B080341-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B080341-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B080341-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B080341-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B080341-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B080341-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B080341-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B080341-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B080341-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B080341-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B080341-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B080341-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B080341-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B080341-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B080341-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B080341-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B080341-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B080341-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B080341-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B080341-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B080341-BLK1	ND	ug/L	0.50	0.14	

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080341						
trans-1,3-Dichloropropene	B080341-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B080341-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B080341-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B080341-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B080341-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B080341-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B080341-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B080341-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B080341-BLK1	ND	ug/L	0.50	0.12	
Styrene	B080341-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B080341-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2,2-Tetrachloroethane	B080341-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B080341-BLK1	ND	ug/L	0.50	0.23	
Toluene	B080341-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B080341-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B080341-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B080341-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B080341-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B080341-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B080341-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B080341-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B080341-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B080341-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B080341-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B080341-BLK1	ND	ug/L	0.50	0.18	
Acetone	B080341-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B080341-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B080341-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B080341-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B080341-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	B080341-BLK1	ND	ug/L	1.0	0.48	
trans-1,4-Dichloro-2-butene	B080341-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B080341-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B080341-BLK1	ND	ug/L	4.0	1.3	

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080341						
Ethyl t-butyl ether	B080341-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B080341-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B080341-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B080341-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B080341-BLK1	ND	ug/L	10	3.3	
Methyl iodide	B080341-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B080341-BLK1	ND	ug/L	10	2.4	
Methyl methacrylate	B080341-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B080341-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B080341-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B080341-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B080341-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B080341-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B080341-BLK1	102	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B080341-BLK1	99.2	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B080341-BLK1	101	%	80 - 120 (LCL - UCL)		

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B080341										
Benzene	B080341-BS1	LCS	21.090	25.000	ug/L	84.4		70 - 130		
Bromodichloromethane	B080341-BS1	LCS	25.170	25.000	ug/L	101		70 - 130		
Chlorobenzene	B080341-BS1	LCS	23.180	25.000	ug/L	92.7		70 - 130		
Chloroethane	B080341-BS1	LCS	21.400	25.000	ug/L	85.6		70 - 130		
1,4-Dichlorobenzene	B080341-BS1	LCS	24.110	25.000	ug/L	96.4		70 - 130		
1,1-Dichloroethane	B080341-BS1	LCS	21.330	25.000	ug/L	85.3		70 - 130		
1,1-Dichloroethene	B080341-BS1	LCS	22.900	25.000	ug/L	91.6		70 - 130		
Toluene	B080341-BS1	LCS	24.220	25.000	ug/L	96.9		70 - 130		
Trichloroethene	B080341-BS1	LCS	23.580	25.000	ug/L	94.3		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B080341-BS1	LCS	10.020	10.000	ug/L	100		75 - 125		
Toluene-d8 (Surrogate)	B080341-BS1	LCS	9.9200	10.000	ug/L	99.2		80 - 120		
4-Bromofluorobenzene (Surrogate)	B080341-BS1	LCS	10.220	10.000	ug/L	102		80 - 120		

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B080341		Used client sample: Y - Description: MW-3-2, 06/12/2020 07:30								
Benzene	MS	2017168-02	ND	21.420	25.000	ug/L		85.7		70 - 130
	MSD	2017168-02	ND	19.230	25.000	ug/L	10.8	76.9	20	70 - 130
Bromodichloromethane	MS	2017168-02	ND	25.770	25.000	ug/L		103		70 - 130
	MSD	2017168-02	ND	23.830	25.000	ug/L	7.8	95.3	20	70 - 130
Chlorobenzene	MS	2017168-02	ND	22.690	25.000	ug/L		90.8		70 - 130
	MSD	2017168-02	ND	22.090	25.000	ug/L	2.7	88.4	20	70 - 130
Chloroethane	MS	2017168-02	ND	21.770	25.000	ug/L		87.1		70 - 130
	MSD	2017168-02	ND	19.720	25.000	ug/L	9.9	78.9	20	70 - 130
1,4-Dichlorobenzene	MS	2017168-02	ND	23.560	25.000	ug/L		94.2		70 - 130
	MSD	2017168-02	ND	22.690	25.000	ug/L	3.8	90.8	20	70 - 130
1,1-Dichloroethane	MS	2017168-02	ND	22.190	25.000	ug/L		88.8		70 - 130
	MSD	2017168-02	ND	19.900	25.000	ug/L	10.9	79.6	20	70 - 130
1,1-Dichloroethene	MS	2017168-02	ND	23.510	25.000	ug/L		94.0		70 - 130
	MSD	2017168-02	ND	21.280	25.000	ug/L	10.0	85.1	20	70 - 130
Toluene	MS	2017168-02	ND	23.750	25.000	ug/L		95.0		70 - 130
	MSD	2017168-02	ND	22.150	25.000	ug/L	7.0	88.6	20	70 - 130
Trichloroethene	MS	2017168-02	ND	23.600	25.000	ug/L		94.4		70 - 130
	MSD	2017168-02	ND	22.380	25.000	ug/L	5.3	89.5	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	2017168-02	ND	10.080	10.000	ug/L		101		75 - 125
	MSD	2017168-02	ND	9.3500	10.000	ug/L	7.5	93.5		75 - 125
Toluene-d8 (Surrogate)	MS	2017168-02	ND	9.6400	10.000	ug/L		96.4		80 - 120
	MSD	2017168-02	ND	9.4200	10.000	ug/L	2.3	94.2		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	2017168-02	ND	9.6800	10.000	ug/L		96.8		80 - 120
	MSD	2017168-02	ND	9.9600	10.000	ug/L	2.9	99.6		80 - 120

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080341						
Chloroacetonitrile	B080341-BLK1	0	ug/L			
1-Chlorobutane	B080341-BLK1	0	ug/L			
1,1-Dichloropropanone	B080341-BLK1	0	ug/L			
Methyl acrylate	B080341-BLK1	0	ug/L			
Nitrobenzene	B080341-BLK1	0	ug/L			
2-Nitropropane	B080341-BLK1	0	ug/L			

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080194						
Acenaphthene	B080194-BLK1	ND	ug/L	2.0	0.20	
Acenaphthylene	B080194-BLK1	ND	ug/L	2.0	0.20	
Aldrin	B080194-BLK1	ND	ug/L	2.0	0.23	
Aniline	B080194-BLK1	ND	ug/L	5.0	0.28	
Anthracene	B080194-BLK1	ND	ug/L	2.0	0.20	
Benzidine	B080194-BLK1	ND	ug/L	20	1.6	
Benzo[a]anthracene	B080194-BLK1	ND	ug/L	2.0	0.21	
Benzo[b]fluoranthene	B080194-BLK1	ND	ug/L	2.0	0.24	
Benzo[k]fluoranthene	B080194-BLK1	ND	ug/L	2.0	0.30	
Benzo[a]pyrene	B080194-BLK1	ND	ug/L	2.0	0.20	
Benzo[g,h,i]perylene	B080194-BLK1	ND	ug/L	2.0	0.33	
Benzoic acid	B080194-BLK1	ND	ug/L	10	0.52	
Benzyl alcohol	B080194-BLK1	ND	ug/L	2.0	0.20	
Benzyl butyl phthalate	B080194-BLK1	ND	ug/L	2.0	0.20	
alpha-BHC	B080194-BLK1	ND	ug/L	2.0	0.20	
beta-BHC	B080194-BLK1	ND	ug/L	2.0	0.20	
delta-BHC	B080194-BLK1	ND	ug/L	2.0	0.20	
gamma-BHC (Lindane)	B080194-BLK1	ND	ug/L	2.0	0.20	
bis(2-Chloroethoxy)methane	B080194-BLK1	ND	ug/L	2.0	0.20	
bis(2-Chloroethyl) ether	B080194-BLK1	ND	ug/L	2.0	0.31	
bis(2-Chloroisopropyl)ether	B080194-BLK1	ND	ug/L	2.0	0.20	
bis(2-Ethylhexyl)phthalate	B080194-BLK1	ND	ug/L	4.0	0.20	
4-Bromophenyl phenyl ether	B080194-BLK1	ND	ug/L	2.0	0.20	
4-Chloroaniline	B080194-BLK1	ND	ug/L	2.0	1.1	
2-Chloronaphthalene	B080194-BLK1	ND	ug/L	2.0	0.20	
4-Chlorophenyl phenyl ether	B080194-BLK1	ND	ug/L	2.0	0.20	
Chrysene	B080194-BLK1	ND	ug/L	2.0	0.20	
4,4'-DDD	B080194-BLK1	ND	ug/L	2.0	0.26	
4,4'-DDE	B080194-BLK1	ND	ug/L	3.0	0.24	
4,4'-DDT	B080194-BLK1	ND	ug/L	2.0	0.22	
Dibenzo[a,h]anthracene	B080194-BLK1	ND	ug/L	3.0	0.34	
Dibenzofuran	B080194-BLK1	ND	ug/L	2.0	0.20	
1,2-Dichlorobenzene	B080194-BLK1	ND	ug/L	2.0	0.20	
1,3-Dichlorobenzene	B080194-BLK1	ND	ug/L	2.0	0.20	

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080194						
1,4-Dichlorobenzene	B080194-BLK1	ND	ug/L	2.0	0.27	
3,3-Dichlorobenzidine	B080194-BLK1	ND	ug/L	10	0.53	
Dieldrin	B080194-BLK1	ND	ug/L	3.0	0.39	
Diethyl phthalate	B080194-BLK1	ND	ug/L	2.0	0.20	
Dimethyl phthalate	B080194-BLK1	ND	ug/L	2.0	0.20	
Di-n-butyl phthalate	B080194-BLK1	ND	ug/L	2.0	0.20	
2,4-Dinitrotoluene	B080194-BLK1	ND	ug/L	2.0	0.40	
2,6-Dinitrotoluene	B080194-BLK1	ND	ug/L	2.0	0.20	
Di-n-octyl phthalate	B080194-BLK1	ND	ug/L	2.0	0.21	
1,2-Diphenylhydrazine	B080194-BLK1	ND	ug/L	2.0	0.20	
Endosulfan I	B080194-BLK1	ND	ug/L	10	0.31	
Endosulfan II	B080194-BLK1	ND	ug/L	10	0.30	
Endosulfan sulfate	B080194-BLK1	ND	ug/L	3.0	0.23	
Endrin	B080194-BLK1	ND	ug/L	2.0	0.38	
Endrin aldehyde	B080194-BLK1	ND	ug/L	10	0.44	
Fluoranthene	B080194-BLK1	ND	ug/L	2.0	0.28	
Fluorene	B080194-BLK1	ND	ug/L	2.0	0.20	
Heptachlor	B080194-BLK1	ND	ug/L	2.0	0.20	
Heptachlor epoxide	B080194-BLK1	ND	ug/L	2.0	0.26	
Hexachlorobenzene	B080194-BLK1	ND	ug/L	2.0	0.25	
Hexachlorobutadiene	B080194-BLK1	ND	ug/L	2.0	0.20	
Hexachlorocyclopentadiene	B080194-BLK1	ND	ug/L	2.0	0.31	
Hexachloroethane	B080194-BLK1	ND	ug/L	2.0	0.20	
Indeno[1,2,3-cd]pyrene	B080194-BLK1	ND	ug/L	2.0	0.29	
Isophorone	B080194-BLK1	ND	ug/L	2.0	0.20	
2-Methylnaphthalene	B080194-BLK1	ND	ug/L	2.0	0.20	
Naphthalene	B080194-BLK1	ND	ug/L	2.0	0.20	
2-Naphthylamine	B080194-BLK1	ND	ug/L	20	1.3	
2-Nitroaniline	B080194-BLK1	ND	ug/L	2.0	0.20	
3-Nitroaniline	B080194-BLK1	ND	ug/L	2.0	0.22	
4-Nitroaniline	B080194-BLK1	ND	ug/L	5.0	0.38	
Nitrobenzene	B080194-BLK1	ND	ug/L	2.0	0.20	
N-Nitrosodimethylamine	B080194-BLK1	ND	ug/L	2.0	1.2	
N-Nitrosodi-N-propylamine	B080194-BLK1	ND	ug/L	2.0	0.21	

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

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080194						
N-Nitrosodiphenylamine	B080194-BLK1	ND	ug/L	2.0	0.20	
Phenanthrene	B080194-BLK1	ND	ug/L	2.0	0.20	
Pyrene	B080194-BLK1	ND	ug/L	2.0	0.22	
1,2,4-Trichlorobenzene	B080194-BLK1	ND	ug/L	2.0	0.20	
4-Chloro-3-methylphenol	B080194-BLK1	ND	ug/L	5.0	0.20	
2-Chlorophenol	B080194-BLK1	ND	ug/L	2.0	0.20	
2,4-Dichlorophenol	B080194-BLK1	ND	ug/L	2.0	0.23	
2,4-Dimethylphenol	B080194-BLK1	ND	ug/L	2.0	0.20	
4,6-Dinitro-2-methylphenol	B080194-BLK1	ND	ug/L	10	0.24	
2,4-Dinitrophenol	B080194-BLK1	ND	ug/L	10	0.20	
2-Methylphenol	B080194-BLK1	ND	ug/L	2.0	0.20	
3- & 4-Methylphenol	B080194-BLK1	ND	ug/L	2.0	0.40	
Total Methylphenol	B080194-BLK1	ND	ug/L	4.0	0.60	
2-Nitrophenol	B080194-BLK1	ND	ug/L	2.0	0.20	
4-Nitrophenol	B080194-BLK1	ND	ug/L	2.0	0.30	
Pentachlorophenol	B080194-BLK1	ND	ug/L	10	0.40	
Phenol	B080194-BLK1	ND	ug/L	2.0	0.21	
2,4,5-Trichlorophenol	B080194-BLK1	ND	ug/L	5.0	0.20	
2,4,6-Trichlorophenol	B080194-BLK1	ND	ug/L	5.0	0.20	
Acetophenone	B080194-BLK1	ND	ug/L	10	0.33	
2-Acetylaminofluorene	B080194-BLK1	ND	ug/L	10	0.78	
Acrolein, dimethyl acetal	B080194-BLK1	ND	ug/L	40	6.1	
4-Aminobiphenyl	B080194-BLK1	ND	ug/L	20	0.35	
Aramite	B080194-BLK1	ND	ug/L	10	0.35	
Benzaldehyde	B080194-BLK1	ND	ug/L	10	2.9	
Benefin	B080194-BLK1	ND	ug/L	10	0.88	
1,1-Biphenyl	B080194-BLK1	ND	ug/L	10	3.6	
Caprolactam	B080194-BLK1	ND	ug/L	10	3.6	
Carbazole	B080194-BLK1	ND	ug/L	2.0	0.20	
cis-Chlordane	B080194-BLK1	ND	ug/L	5.0	0.59	
trans-Chlordane	B080194-BLK1	ND	ug/L	5.0	0.55	
Chlorobenzilate	B080194-BLK1	ND	ug/L	10	0.27	
1-Chloronaphthalene	B080194-BLK1	ND	ug/L	10	0.37	
cis-Diallate	B080194-BLK1	ND	ug/L	5.0	2.4	

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Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080194						
trans-Diallate	B080194-BLK1	ND	ug/L	5.0	0.56	
Diallate	B080194-BLK1	ND	ug/L	10	3.0	
2,6-Dichlorophenol	B080194-BLK1	ND	ug/L	10	0.28	
Dimethoate	B080194-BLK1	ND	ug/L	20	0.99	
p-(Dimethylamino)azobenzene	B080194-BLK1	ND	ug/L	10	0.27	
7,12-Dimethylbenz[a]anthracene	B080194-BLK1	ND	ug/L	10	0.37	
3,3'-Dimethylbenzidine	B080194-BLK1	ND	ug/L	20	0.42	
a,a-Dimethylphenethylamine	B080194-BLK1	ND	ug/L	20	4.9	
Dimethyl sulfoxide (DMSO)	B080194-BLK1	ND	ug/L	10	9.5	
1,3-Dinitrobenzene	B080194-BLK1	ND	ug/L	10	0.93	
Dinoseb	B080194-BLK1	ND	ug/L	10	0.91	
Diphenylamine	B080194-BLK1	ND	ug/L	10	0.61	
Disulfoton	B080194-BLK1	ND	ug/L	10	0.33	
Ethyl methacrylate	B080194-BLK1	ND	ug/L	10	1.2	
Ethyl methanesulfonate	B080194-BLK1	ND	ug/L	10	0.61	
Ethyl Parathion	B080194-BLK1	ND	ug/L	10	0.53	
Famphur	B080194-BLK1	ND	ug/L	20	4.1	
Hexachlorophene	B080194-BLK1	ND	ug/L	200	20	
Hexachloropropene	B080194-BLK1	ND	ug/L	20	0.23	
Isodrin	B080194-BLK1	ND	ug/L	10	0.43	
cis-Isosafrole	B080194-BLK1	ND	ug/L	5.0	0.44	
trans-Isosafrole	B080194-BLK1	ND	ug/L	5.0	0.29	
Isosafrole	B080194-BLK1	ND	ug/L	10	0.73	
Kepone	B080194-BLK1	ND	ug/L	20	2.2	
Methapyrilene	B080194-BLK1	ND	ug/L	10	2.9	
Methoxychlor	B080194-BLK1	ND	ug/L	10	0.20	
3-Methylcholanthrene	B080194-BLK1	ND	ug/L	10	0.31	
Methyl methacrylate	B080194-BLK1	ND	ug/L	40	3.8	
Methyl methanesulfonate	B080194-BLK1	ND	ug/L	10	0.40	
1-Methylnaphthalene	B080194-BLK1	ND	ug/L	10	0.26	
Methyl parathion	B080194-BLK1	ND	ug/L	10	0.71	
N-Methyl-2-pyrrolidinone	B080194-BLK1	ND	ug/L	10	2.5	
1,4-Naphthoquinone	B080194-BLK1	ND	ug/L	20	0.87	
1-Naphthylamine	B080194-BLK1	ND	ug/L	20	0.30	

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080194						
5-Nitro-o-toluidine	B080194-BLK1	ND	ug/L	10	0.85	
4-Nitroquinoline 1-oxide	B080194-BLK1	ND	ug/L	20	0.95	
N-Nitrosodibutylamine	B080194-BLK1	ND	ug/L	10	0.26	
N-Nitrosodiethylamine	B080194-BLK1	ND	ug/L	10	0.55	
N-Nitrosomethylethylamine	B080194-BLK1	ND	ug/L	10	0.61	
N-Nitrosomorpholine	B080194-BLK1	ND	ug/L	10	0.63	
N-Nitrosopiperidine	B080194-BLK1	ND	ug/L	10	0.47	
N-Nitrosopyrrolidine	B080194-BLK1	ND	ug/L	10	0.39	
Pentachlorobenzene	B080194-BLK1	ND	ug/L	10	0.20	
Pentachloroethane	B080194-BLK1	ND	ug/L	20	0.31	
Pentachloronitrobenzene	B080194-BLK1	ND	ug/L	10	0.42	
Phenacetin	B080194-BLK1	ND	ug/L	10	0.75	
1,4-Phenylenediamine	B080194-BLK1	ND	ug/L	20	1.1	
Phorate	B080194-BLK1	ND	ug/L	10	0.35	
2-Picoline	B080194-BLK1	ND	ug/L	10	1.2	
PCB-1268	B080194-BLK1	ND	ug/L	50	25	
PCB-1262	B080194-BLK1	ND	ug/L	50	25	
PCB-1260	B080194-BLK1	ND	ug/L	50	25	
PCB-1248	B080194-BLK1	ND	ug/L	50	25	
PCB-1242	B080194-BLK1	ND	ug/L	50	25	
PCB-1232	B080194-BLK1	ND	ug/L	50	25	
PCB-1221	B080194-BLK1	ND	ug/L	50	25	
PCB-1016	B080194-BLK1	ND	ug/L	50	25	
PCB-1254	B080194-BLK1	ND	ug/L	50	25	
Total PCB's (Summation)	B080194-BLK1	ND	ug/L	50	25	
Prometryn	B080194-BLK1	ND	ug/L	10	1.7	
Pronamide	B080194-BLK1	ND	ug/L	10	0.22	
Propyleneglycol monomethyl ether acetate	B080194-BLK1	ND	ug/L	10	3.7	
Prowl	B080194-BLK1	ND	ug/L	10	0.83	
Pyridine	B080194-BLK1	ND	ug/L	10	1.6	
Safrole	B080194-BLK1	ND	ug/L	10	0.40	
Sulfotep	B080194-BLK1	ND	ug/L	10	0.23	
1,2,4,5-Tetrachlorobenzene	B080194-BLK1	ND	ug/L	10	0.20	
2,3,4,5-Tetrachlorophenol	B080194-BLK1	ND	ug/L	10	5.0	

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Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080194						
2,3,4,6-Tetrachlorophenol	B080194-BLK1	ND	ug/L	10	0.73	
Thionazin	B080194-BLK1	ND	ug/L	10	0.38	
2-Toluidine	B080194-BLK1	ND	ug/L	10	0.41	
Toxaphene	B080194-BLK1	ND	ug/L	100	50	
o,o,o-Triethylphosphorothioate	B080194-BLK1	ND	ug/L	10	0.44	
1,3,5-Trinitrobenzene	B080194-BLK1	ND	ug/L	10	1.4	
Tris(hydroxymethyl)nitromethane	B080194-BLK1	ND	ug/L	50	5.0	
2-Fluorophenol (Surrogate)	B080194-BLK1	80.3	%	30 - 120 (LCL - UCL)		
Phenol-d5 (Surrogate)	B080194-BLK1	39.9	%	12 - 110 (LCL - UCL)		
Nitrobenzene-d5 (Surrogate)	B080194-BLK1	104	%	50 - 130 (LCL - UCL)		
2-Fluorobiphenyl (Surrogate)	B080194-BLK1	88.6	%	55 - 125 (LCL - UCL)		
2,4,6-Tribromophenol (Surrogate)	B080194-BLK1	121	%	40 - 150 (LCL - UCL)		
p-Terphenyl-d14 (Surrogate)	B080194-BLK1	63.9	%	40 - 150 (LCL - UCL)		

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Laboratory Control Sample

Table with columns: Constituent, QC Sample ID, Type, Result, Spike Level, Units, Percent Recovery, RPD, Control Limits (Percent Recovery, RPD), Lab (Quals). Includes a sub-table for QC Batch ID: B080194.

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Control Limits Percent Recovery, Lab Quals. Includes QC Batch ID: B080194 and Used client sample: N.

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	Percent		Control Limits		Lab
							RPD	Recovery	RPD	Percent Recovery	
QC Batch ID: B080194		Used client sample: N									
Pyridine	MS	2016224-41	ND	ND	50.000	ug/L		0		1 - 110	Q03
	MSD	2016224-41	ND	12.338	50.000	ug/L	200	24.7	30	1 - 110	
2-Fluorophenol (Surrogate)	MS	2016224-41	ND	23.702	40.000	ug/L		59.3		30 - 120	
	MSD	2016224-41	ND	27.224	40.000	ug/L	13.8	68.1		30 - 120	
Phenol-d5 (Surrogate)	MS	2016224-41	ND	11.932	40.000	ug/L		29.8		12 - 110	
	MSD	2016224-41	ND	14.386	40.000	ug/L	18.7	36.0		12 - 110	
Nitrobenzene-d5 (Surrogate)	MS	2016224-41	ND	30.932	40.000	ug/L		77.3		50 - 130	
	MSD	2016224-41	ND	37.789	40.000	ug/L	20.0	94.5		50 - 130	
2-Fluorobiphenyl (Surrogate)	MS	2016224-41	ND	29.868	40.000	ug/L		74.7		55 - 125	
	MSD	2016224-41	ND	33.898	40.000	ug/L	12.6	84.7		55 - 125	
2,4,6-Tribromophenol (Surrogate)	MS	2016224-41	ND	42.560	40.000	ug/L		106		40 - 150	
	MSD	2016224-41	ND	46.815	40.000	ug/L	9.5	117		40 - 150	
p-Terphenyl-d14 (Surrogate)	MS	2016224-41	ND	13.044	20.000	ug/L		65.2		40 - 150	
	MSD	2016224-41	ND	16.317	20.000	ug/L	22.3	81.6		40 - 150	

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080194						
1-Acetyl-2-thiourea	B080194-BLK1	0	ug/L			
2-Aminoanthraquinone	B080194-BLK1	0	ug/L			
3-Amino-9-ethylcarbazole	B080194-BLK1	0	ug/L			
Anilazine	B080194-BLK1	0	ug/L			
o-Anisidine	B080194-BLK1	0	ug/L			
Azinphos methyl	B080194-BLK1	0	ug/L			
Barban	B080194-BLK1	0	ug/L			
p-Benzoquinone	B080194-BLK1	0	ug/L			
Bromoxynil	B080194-BLK1	0	ug/L			
Captafol	B080194-BLK1	0	ug/L			
Captan	B080194-BLK1	0	ug/L			
Carbaryl	B080194-BLK1	0	ug/L			
Carbofuran	B080194-BLK1	0	ug/L			
Carbophenothion	B080194-BLK1	0	ug/L			
Chlorfenvinphos	B080194-BLK1	0	ug/L			
5-Chloro-2-methylaniline	B080194-BLK1	0	ug/L			
3-(Chloromethyl) pyridine hydrochloride	B080194-BLK1	0	ug/L			
4-Chloro-1,2-phenylenediamine	B080194-BLK1	0	ug/L			
4-Chloro-1,3-phenylenediamine	B080194-BLK1	0	ug/L			
Coumaphos	B080194-BLK1	0	ug/L			
p-Cresidine	B080194-BLK1	0	ug/L			
Crotoxphos	B080194-BLK1	0	ug/L			
2-Cyclohexyl-4,6-dinitrophenol	B080194-BLK1	0	ug/L			
Demeton-O	B080194-BLK1	0	ug/L			
Demeton-S	B080194-BLK1	0	ug/L			
2,4-Diaminotoluene	B080194-BLK1	0	ug/L			
Dibenz[a,j]acridine	B080194-BLK1	0	ug/L			
Dibenzo[a,e]pyrene	B080194-BLK1	0	ug/L			
1,2-Dibromo-3-chloropropane	B080194-BLK1	0	ug/L			
Dichlone	B080194-BLK1	0	ug/L			
Dichlorvos	B080194-BLK1	0	ug/L			
Dicrotophos	B080194-BLK1	0	ug/L			
Diethylstilbestrol	B080194-BLK1	0	ug/L			
Diethyl sulfate	B080194-BLK1	0	ug/L			

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Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080194						
Dihydrosafrole	B080194-BLK1	0	ug/L			
3,3'-Dimethoxybenzidine	B080194-BLK1	0	ug/L			
1,2-Dinitrobenzene	B080194-BLK1	0	ug/L			
1,4-Dinitrobenzene	B080194-BLK1	0	ug/L			
Dinocap	B080194-BLK1	0	ug/L			
Dioxathion	B080194-BLK1	0	ug/L			
5,5-Diphenylhydantoin	B080194-BLK1	0	ug/L			
Endrin ketone	B080194-BLK1	0	ug/L			
EPN	B080194-BLK1	0	ug/L			
Ethion	B080194-BLK1	0	ug/L			
Ethyl carbamate	B080194-BLK1	0	ug/L			
Fensulfothion	B080194-BLK1	0	ug/L			
Fenthion	B080194-BLK1	0	ug/L			
Fluchloralin	B080194-BLK1	0	ug/L			
Hexamethylphosphoramide	B080194-BLK1	0	ug/L			
Hydroquinone	B080194-BLK1	0	ug/L			
Leptophos	B080194-BLK1	0	ug/L			
Malathion	B080194-BLK1	0	ug/L			
Maleic Anhydride	B080194-BLK1	0	ug/L			
Mestranol	B080194-BLK1	0	ug/L			
4,4'-Methylenebis(2-chloroaniline)	B080194-BLK1	0	ug/L			
4,4'-Methylenebis[N,N-dimethylaniline]	B080194-BLK1	0	ug/L			
Mevinphos	B080194-BLK1	0	ug/L			
Mexacarbate	B080194-BLK1	0	ug/L			
Mirex	B080194-BLK1	0	ug/L			
Monocrotophos	B080194-BLK1	0	ug/L			
Naled	B080194-BLK1	0	ug/L			
Nicotine	B080194-BLK1	0	ug/L			
5-Nitroacenaphthene	B080194-BLK1	0	ug/L			
5-Nitro-o-anisidine	B080194-BLK1	0	ug/L			
4-Nitrobiphenyl	B080194-BLK1	0	ug/L			
Nitrophen	B080194-BLK1	0	ug/L			
Octamethylpyrophosphoramide	B080194-BLK1	0	ug/L			
4,4'-Oxydianiline	B080194-BLK1	0	ug/L			

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

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080194						
Phenobarbital	B080194-BLK1	0	ug/L			
Phosalone	B080194-BLK1	0	ug/L			
Phosmet	B080194-BLK1	0	ug/L			
Phosphamidon	B080194-BLK1	0	ug/L			
Phthalic anhydride	B080194-BLK1	0	ug/L			
Piperonyl sulfoxide	B080194-BLK1	0	ug/L			
Propylthiouracil	B080194-BLK1	0	ug/L			
Resorcinol	B080194-BLK1	0	ug/L			
Strychnine	B080194-BLK1	0	ug/L			
Sulfallate	B080194-BLK1	0	ug/L			
Terbufos	B080194-BLK1	0	ug/L			
Tetrachlorvinphos	B080194-BLK1	0	ug/L			
TEPP	B080194-BLK1	0	ug/L			
Thiophenol (Benzenethiol)	B080194-BLK1	0	ug/L			
Toluene 2,4-diisocyanate	B080194-BLK1	0	ug/L			
Trifluralin	B080194-BLK1	0	ug/L			
2,4,5-Trimethylaniline	B080194-BLK1	0	ug/L			
Trimethyl phosphate	B080194-BLK1	0	ug/L			
Tris(2,3-dibromopropyl) phosphate	B080194-BLK1	0	ug/L			
Tri-p-tolyl phosphate	B080194-BLK1	0	ug/L			

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

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B067958						
Bicarbonate	B067958-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B067958-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B067958-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: B080152						
Chloride	B080152-BLK1	ND	mg/L	0.50	0.13	
Nitrate as N	B080152-BLK1	ND	mg/L	0.10	0.024	
Sulfate	B080152-BLK1	ND	mg/L	1.0	0.14	
QC Batch ID: B080273						
Total Dissolved Solids @ 180 C	B080273-BLK1	ND	mg/L	6.7	3.3	
QC Batch ID: B080324						
Nitrite as N	B080324-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: B080426						
Total Recoverable Calcium	B080426-BLK1	ND	mg/L	0.10	0.014	
Total Recoverable Magnesium	B080426-BLK1	ND	mg/L	0.050	0.019	
Total Recoverable Sodium	B080426-BLK1	ND	mg/L	0.50	0.051	
Total Recoverable Potassium	B080426-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: B080503						
Perchlorate	B080503-BLK1	ND	ug/L	4.0	0.81	

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

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits		Lab
							RPD	Percent Recovery	
QC Batch ID: B067958									
Total Alkalinity as CaCO3	B067958-BS3	LCS	95.690	100.00	mg/L	95.7		90 - 110	
pH	B067958-BS2	LCS	7.0000	7.0000	pH Units	100		95 - 105	
QC Batch ID: B080152									
Chloride	B080152-BS1	LCS	51.395	50.000	mg/L	103		90 - 110	
Nitrate as N	B080152-BS1	LCS	5.1700	5.0000	mg/L	103		90 - 110	
Sulfate	B080152-BS1	LCS	103.31	100.00	mg/L	103		90 - 110	
QC Batch ID: B080273									
Total Dissolved Solids @ 180 C	B080273-BS1	LCS	595.00	586.00	mg/L	102		90 - 110	
QC Batch ID: B080324									
Nitrite as N	B080324-BS1	LCS	0.52959	0.50000	mg/L	106		90 - 110	
QC Batch ID: B080426									
Total Recoverable Calcium	B080426-BS1	LCS	10.410	10.000	mg/L	104		85 - 115	
Total Recoverable Magnesium	B080426-BS1	LCS	10.303	10.000	mg/L	103		85 - 115	
Total Recoverable Sodium	B080426-BS1	LCS	10.145	10.000	mg/L	101		85 - 115	
Total Recoverable Potassium	B080426-BS1	LCS	9.7432	10.000	mg/L	97.4		85 - 115	
QC Batch ID: B080503									
Perchlorate	B080503-BS1	LCS	9.6830	10.000	ug/L	96.8		85 - 115	

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

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes QC Batch IDs B067958, B080152, B080273, B080324, B080426, and B080503.

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

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

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: B080503		Used client sample: Y - Description: MW-3-2, 06/12/2020 07:30								
Perchlorate	DUP	2017168-02	ND	ND		ug/L			15	
	MS	2017168-02	ND	9.6455	10.101	ug/L		95.5		80 - 120
	MSD	2017168-02	ND	9.1212	10.101	ug/L	5.6	90.3	15	80 - 120

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

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080337						
Total Recoverable Arsenic	B080337-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B080337-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B080337-BLK1	ND	ug/L	1.0	0.10	
QC Batch ID: B080374						
Hexavalent Chromium	B080374-BLK1	ND	mg/L	0.00020	0.000032	
QC Batch ID: B080390						
Total Recoverable Arsenic	B080390-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B080390-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B080390-BLK1	ND	ug/L	1.0	0.10	
QC Batch ID: B080426						
Total Recoverable Iron	B080426-BLK1	ND	ug/L	50	30	

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

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B080337										
Total Recoverable Arsenic	B080337-BS1	LCS	111.13	100.00	ug/L	111		85 - 115		
Total Recoverable Chromium	B080337-BS1	LCS	44.042	40.000	ug/L	110		85 - 115		
Total Recoverable Lead	B080337-BS1	LCS	111.37	100.00	ug/L	111		85 - 115		
QC Batch ID: B080374										
Hexavalent Chromium	B080374-BS1	LCS	0.020000	0.020000	mg/L	100		90 - 110		
QC Batch ID: B080390										
Total Recoverable Arsenic	B080390-BS1	LCS	107.23	100.00	ug/L	107		85 - 115		
Total Recoverable Chromium	B080390-BS1	LCS	42.962	40.000	ug/L	107		85 - 115		
Total Recoverable Lead	B080390-BS1	LCS	108.20	100.00	ug/L	108		85 - 115		
QC Batch ID: B080426										
Total Recoverable Iron	B080426-BS1	LCS	1057.9	1000.0	ug/L	106		85 - 115		

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

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Control Limits Percent Recovery, Lab Quals. Includes QC Batch IDs B080337, B080374, B080390, and B080426.

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

Reported: 06/24/2020 17:31
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A07 Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
- Q02 Matrix spike precision is not within the control limits.
- Q03 Matrix spike recovery(s) was(were) 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: 07/01/2020

David Conner

Tidewater Inc. - Powell

3761 Attucks Drive

Powell, OH 43065

Client Project: 2Q20

BCL Project: JPL- GW Monitoring Wells

BCL Work Order: 2017309

Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 6/15/2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda

Client Service Rep

Stuart Buttram

Technical Director

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

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Chain of Custody Form

Page 1 of 1

Report To: Tidewater, Inc. **Client:** David Corner
Address: 3761 Attucks Drive **City:** Powell **State:** OH **Zip:** 43065
Phone: (626) 288-5715 **Fax:** (614) 792-2897
Email: david.corner@tidewater.net
Submission #: 20-17309

Project Description: JPL-GW Monitoring
Project Code: 2020
Sampler (s): Blaine Tech

Sample #	Sample Description	Date	Time	Matrix*
-1	TB-5-061520	6/15/20	0800	L
-2	MU-17-5	0915	1400	
-3	MU-17-4	1000	1530	
-4	MU-17-3	1030	1500	
-5	MU-17-2	1500	1540	
-6	MU-17-1			
-7	FB-5-061520			
-8	Dyp-2-202020			

Analysis Requested:
 VOCs EPA 524.2: X
 TRM: Cr, Pb, As, Ca, Mg, K: X
 Na, Fe: X
 Hexavalent Cr -218.6 (mg/L): X
 Cl, NO3, NO2, SO4, Perch.: X
 CO3, HCO3, Alk, TDS, PH: X
 Orthophosphate 365.1: X
 1,4 Dioxane 8270SIM: X
 NDMA 1625M: X
 PAHs, Phthalates, Phenols: X

Notes:
 PAYE HOLDING TIME
 CR-18 (NO3) OP 89
 DG Cl2 BUD MBAS COT
 DISTRIBUTION
 GUY JIMMINGS BUN
 SUB OUT

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

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

Cost Center:
 1. Relinquished By: _____ Date: 6/15/20 Time: 1630
 2. Relinquished By: Eddie Chapter Date: 6/15/20 Time: 1645
 3. Relinquished By: _____ Date: 6-15-20 Time: 1905

Global ID:
 1. Received By: _____ Date: 6/15/20 Time: 1630
 2. Received By: _____ Date: 6-15-20 Time: 1645
 3. Received By: _____ Date: 6-15-20 Time: 1905

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

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 of 2

Submission #: 20-17309

SHIPPING INFORMATION
 Fed Ex UPS Ontrac Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO
 W / S

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

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

COC Received YES NO
 Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time: 6/15/2013
 Temperature: (A) 1.2 °C / (C) 1.0 °C Analyst Init: GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES					E	E	E	E		
4oz / 8oz / 16oz PE UNPRES					F	F	F	F		
2oz Cr ⁴⁺					D	D	D	D		
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz					G	G	G	G		
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A									
40ml VOA VIAL		ABC	ABC	ABC	ABC	ABC	ABC	ABC		
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL - 504										
QT EPA 508/038/080										
QT EPA 515.18150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 543										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270			H							
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____
 Sample Numbering Completed By: GSP Date/Time: 6/15/2013
 1 = Actual / C = Corrected



BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 of 2

Submission #: 20-17309

SHIPPING INFORMATION
 Fed Ex UPS Ontrac Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO
 W / S _____

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

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

COC Received YES NO
 Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time: 6/15/13
 Temperature: (A) 3.3 °C / (C) 3.1 °C Analyst Init: GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES		E	E	E						
4oz / 8oz / 16oz PE UNPRES		F	F	F						
2oz Cr ⁴		D	D	D						
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz		G	G	G						
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/008/0080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270			IJ	HIJ						
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____
 Sample Numbering Completed By: GSP Date/Time: 6/15 2013
 A = Actual / C = Corrected



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

Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2017309-01	COC Number: --- Project Number: JPL GW Monitoring Sampling Location: --- Sampling Point: TB-5-061520 Sampled By: Blaine Tech of BTST	Receive Date: 06/15/2020 19:05 Sampling Date: 06/15/2020 08:00 Sample Depth: --- Lab Matrix: Water Sample Type: Trip Blank Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-5-061520 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

2017309-02	COC Number: --- Project Number: JPL GW Monitoring Sampling Location: --- Sampling Point: MW-17-5 Sampled By: Blaine Tech of BTST	Receive Date: 06/15/2020 19:05 Sampling Date: 06/15/2020 09:15 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-17-5 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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2017309-03	COC Number: --- Project Number: JPL GW Monitoring Sampling Location: --- Sampling Point: MW-17-4 Sampled By: Blaine Tech of BTST	Receive Date: 06/15/2020 19:05 Sampling Date: 06/15/2020 14:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-17-4 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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Powell, OH 43065

Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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2017309-04	COC Number: --- Project Number: JPL GW Monitoring Sampling Location: --- Sampling Point: MW-17-3 Sampled By: Blaine Tech of BTST	Receive Date: 06/15/2020 19:05 Sampling Date: 06/15/2020 10:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-17-3 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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2017309-05	COC Number: --- Project Number: JPL GW Monitoring Sampling Location: --- Sampling Point: MW-17-2 Sampled By: Blaine Tech of BTST	Receive Date: 06/15/2020 19:05 Sampling Date: 06/15/2020 15:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-17-2 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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2017309-06	COC Number: --- Project Number: JPL GW Monitoring Sampling Location: --- Sampling Point: MW-17-1 Sampled By: Blaine Tech of BTST	Receive Date: 06/15/2020 19:05 Sampling Date: 06/15/2020 16:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-17-1 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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2017309-07	COC Number: --- Project Number: JPL GW Monitoring Sampling Location: --- Sampling Point: EB-5-061520 Sampled By: Blaine Tech of BTST	Receive Date: 06/15/2020 19:05 Sampling Date: 06/15/2020 15:00 Sample Depth: --- Lab Matrix: Water Sample Type: Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-5-061520 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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2017309-08	COC Number: --- Project Number: JPL GW Monitoring Sampling Location: --- Sampling Point: Dup-2-2Q2020 Sampled By: Blaine Tech of BTST	Receive Date: 06/15/2020 19:05 Sampling Date: 06/15/2020 15:40 Sample Depth: --- Lab Matrix: Water Sample Type: Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): Dup-2-2Q2020 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017309-01	Client Sample Name: JPL GW Monitoring, TB-5-061520, 6/15/2020 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/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: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017309-01	Client Sample Name: JPL GW Monitoring, TB-5-061520, 6/15/2020 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND	V11	1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND	V11	1
1,1,1-Trichloroethane	ND	ug/L	0.50	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	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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Powell, OH 43065

Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017309-01	Client Sample Name: JPL GW Monitoring, TB-5-061520, 6/15/2020 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/17/20 07:00	06/17/20 13:42	MGC	MS-V5	1	B080341	EPA 524.2

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017309-01	Client Sample Name: JPL GW Monitoring, TB-5-061520, 6/15/2020 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/17/20 07:00	06/17/20	13:42	MGC	MS-V5	1	B080341	EPA 524.2

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017309-02	Client Sample Name: JPL GW Monitoring, MW-17-5, 6/15/2020 9:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.94	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: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017309-02	Client Sample Name: JPL GW Monitoring, MW-17-5, 6/15/2020 9:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND	V11	1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.72	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND	V11	1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	1.4	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	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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Powell, OH 43065

Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017309-02	Client Sample Name: JPL GW Monitoring, MW-17-5, 6/15/2020 9:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	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)	98.1	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/17/20 07:00	06/17/20 14:06	MGC	MS-V5	1	B080341	EPA 524.2

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017309-02	Client Sample Name: JPL GW Monitoring, MW-17-5, 6/15/2020 9:15:00AM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/17/20 07:00	06/17/20	14:06	MGC	MS-V5	1	B080341	EPA 524.2

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2017309-02		Client Sample Name: JPL GW Monitoring, MW-17-5, 6/15/2020 9:15:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	70	mg/L	0.10	0.014	EPA-200.7	ND		1	
Total Recoverable Magnesium	19	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	55	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	2.2	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	240	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	200	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	54	mg/L	0.50	0.13	EPA-300.0	ND		3	
Nitrate as N	7.9	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	67	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	7.97	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	460	mg/L	33	17	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	4.3	ug/L	4.0	0.81	EPA-314.0	ND		7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/18/20 09:15	06/18/20 16:49		JRG	PE-OP4	1	B080479	EPA 200.2
2	SM-2320B	06/17/20 12:00	06/17/20 13:21		MEV	MET-1	1	B067961	No Prep
3	EPA-300.0	06/15/20 21:00	06/16/20 00:09		SAV	IC7	1	B080262	No Prep
4	EPA-150.1	06/17/20 12:00	06/17/20 13:21		MEV	MET-1	1	B067961	No Prep
5	EPA-160.1	06/17/20 14:00	06/17/20 14:00		CAD	MANUAL	3.333	B080364	No Prep
6	EPA-353.2	06/15/20 21:00	06/15/20 21:31		CMM	KONE-1	1	B080326	No Prep
7	EPA-314.0	06/22/20 10:00	06/22/20 12:12		SAV	IC6	1	B080716	No Prep

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017309-02	Client Sample Name: JPL GW Monitoring, MW-17-5, 6/15/2020 9:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0013	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	0.92	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	5.2	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	1100	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	1.0	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-218.6	06/17/20 11:00	06/17/20 14:18	SAV	IC-4	1	B080434	No Prep
2	EPA-200.8	06/17/20 10:20	06/19/20 12:58	JNC	PE-EL2	1	B080390	EPA 200.2
3	EPA-200.7	06/18/20 09:15	06/18/20 16:49	JRG	PE-OP4	1	B080479	EPA 200.2

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2017309-03) and Client Sample Name (JPL GW Monitoring, MW-17-4, 6/15/2020 2:00:00PM, Blaine Tech)

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

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Qualls, Run #. Lists various chemical constituents and their analysis results.

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017309-03	Client Sample Name: JPL GW Monitoring, MW-17-4, 6/15/2020 2:00:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	99.0	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/17/20 07:00	06/17/20 14:30	MGC	MS-V5	1	B080341	EPA 524.2

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017309-03	Client Sample Name: JPL GW Monitoring, MW-17-4, 6/15/2020 2:00:00PM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/17/20 07:00	06/17/20	14:30	MGC	MS-V5	1	B080341	EPA 524.2

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

1,4-Dioxane (EPA Method 8270C)

BCL Sample ID: 2017309-03	Client Sample Name: JPL GW Monitoring, MW-17-4, 6/15/2020 2:00:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,4-Dioxane	ND	ug/L	1.0	0.16	EPA-8270C	ND		1
Naphthalene-d8 (Surrogate)	104	%	70 - 130 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-8270C	06/22/20 09:30	06/24/20	10:22	OLH	MS-B4	1.065	B080893	EPA 3510C

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017309-03		Client Sample Name: JPL GW Monitoring, MW-17-4, 6/15/2020 2:00:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Hexavalent Chromium	0.00059	mg/L	0.00020	0.000032	EPA-218.6	ND		1	
Total Recoverable Arsenic	1.5	ug/L	2.0	0.70	EPA-200.8	ND	J	2	
Total Recoverable Chromium	1.8	ug/L	3.0	0.50	EPA-200.8	ND	J	2	
Total Recoverable Iron	83	ug/L	50	30	EPA-200.7	ND		3	
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/17/20 11:00	06/17/20	14:28	SAV	IC-4	1	B080434	No Prep
2	EPA-200.8	06/17/20 10:20	06/17/20	19:53	AS1	PE-EL2	1	B080392	EPA 200.2
3	EPA-200.7	06/18/20 09:15	06/18/20	16:55	JRG	PE-OP4	1	B080479	EPA 200.2

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017309-04	Client Sample Name: JPL GW Monitoring, MW-17-3, 6/15/2020 10:00:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.26	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: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017309-04	Client Sample Name: JPL GW Monitoring, MW-17-3, 6/15/2020 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND	V11	1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.26	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	V11	1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	1.3	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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Powell, OH 43065

Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017309-04	Client Sample Name: JPL GW Monitoring, MW-17-3, 6/15/2020 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	98.5	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/17/20 07:00	06/17/20 14:54	MGC	MS-V5	1	B080341	EPA 524.2

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Powell, OH 43065

Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017309-04	Client Sample Name: JPL GW Monitoring, MW-17-3, 6/15/2020 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/17/20 07:00	06/17/20	14:54	MGC	MS-V5	1	B080341	EPA 524.2

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2017309-04 Client Sample Name: JPL GW Monitoring, MW-17-3, 6/15/2020 10:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	2.2	0.22	EPA-8270C	ND		1
Acenaphthylene	ND	ug/L	2.2	0.22	EPA-8270C	ND		1
Aldrin	ND	ug/L	2.2	0.26	EPA-8270C	ND		1
Aniline	ND	ug/L	5.6	0.32	EPA-8270C	ND		1
Anthracene	ND	ug/L	2.2	0.22	EPA-8270C	ND		1
Benzidine	ND	ug/L	22	1.8	EPA-8270C	ND		1
Benzo[a]anthracene	ND	ug/L	2.2	0.24	EPA-8270C	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.2	0.27	EPA-8270C	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.2	0.34	EPA-8270C	ND		1
Benzo[a]pyrene	ND	ug/L	2.2	0.22	EPA-8270C	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.2	0.37	EPA-8270C	ND		1
Benzoic acid	ND	ug/L	11	0.58	EPA-8270C	ND		1
Benzyl alcohol	ND	ug/L	2.2	0.22	EPA-8270C	ND		1
Benzyl butyl phthalate	ND	ug/L	2.2	0.22	EPA-8270C	ND		1
alpha-BHC	ND	ug/L	2.2	0.22	EPA-8270C	ND		1
beta-BHC	ND	ug/L	2.2	0.22	EPA-8270C	ND		1
delta-BHC	ND	ug/L	2.2	0.22	EPA-8270C	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.2	0.22	EPA-8270C	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.2	0.22	EPA-8270C	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.2	0.35	EPA-8270C	ND		1
bis(2-Chloroisopropyl) ether	ND	ug/L	2.2	0.22	EPA-8270C	ND		1
bis(2-Ethylhexyl)phthalate	ND	ug/L	4.5	0.22	EPA-8270C	ND		1
4-Bromophenyl phenyl ether	ND	ug/L	2.2	0.22	EPA-8270C	ND		1
4-Chloroaniline	ND	ug/L	2.2	1.2	EPA-8270C	ND		1
2-Chloronaphthalene	ND	ug/L	2.2	0.22	EPA-8270C	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.2	0.22	EPA-8270C	ND		1
Chrysene	ND	ug/L	2.2	0.22	EPA-8270C	ND		1
4,4'-DDD	ND	ug/L	2.2	0.29	EPA-8270C	ND		1
4,4'-DDE	ND	ug/L	3.4	0.27	EPA-8270C	ND		1
4,4'-DDT	ND	ug/L	2.2	0.25	EPA-8270C	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.4	0.38	EPA-8270C	ND		1
Dibenzofuran	ND	ug/L	2.2	0.22	EPA-8270C	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.2	0.22	EPA-8270C	ND		1

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Powell, OH 43065

Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	2017309-04	Client Sample Name:	JPL GW Monitoring, MW-17-3, 6/15/2020 10:00:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
1,3-Dichlorobenzene	ND	ug/L	2.2	0.22	EPA-8270C	ND		1	
1,4-Dichlorobenzene	ND	ug/L	2.2	0.30	EPA-8270C	ND		1	
3,3-Dichlorobenzidine	ND	ug/L	11	0.60	EPA-8270C	ND		1	
Dieldrin	ND	ug/L	3.4	0.44	EPA-8270C	ND		1	
Diethyl phthalate	ND	ug/L	2.2	0.22	EPA-8270C	ND		1	
Dimethyl phthalate	ND	ug/L	2.2	0.22	EPA-8270C	ND		1	
Di-n-butyl phthalate	ND	ug/L	2.2	0.22	EPA-8270C	ND		1	
2,4-Dinitrotoluene	ND	ug/L	2.2	0.45	EPA-8270C	ND		1	
2,6-Dinitrotoluene	ND	ug/L	2.2	0.22	EPA-8270C	ND		1	
Di-n-octyl phthalate	ND	ug/L	2.2	0.24	EPA-8270C	ND		1	
1,2-Diphenylhydrazine	ND	ug/L	2.2	0.22	EPA-8270C	ND		1	
Endosulfan I	ND	ug/L	11	0.35	EPA-8270C	ND		1	
Endosulfan II	ND	ug/L	11	0.34	EPA-8270C	ND		1	
Endosulfan sulfate	ND	ug/L	3.4	0.26	EPA-8270C	ND		1	
Endrin	ND	ug/L	2.2	0.43	EPA-8270C	ND		1	
Endrin aldehyde	ND	ug/L	11	0.50	EPA-8270C	ND		1	
Fluoranthene	ND	ug/L	2.2	0.32	EPA-8270C	ND		1	
Fluorene	ND	ug/L	2.2	0.22	EPA-8270C	ND		1	
Heptachlor	ND	ug/L	2.2	0.22	EPA-8270C	ND		1	
Heptachlor epoxide	ND	ug/L	2.2	0.29	EPA-8270C	ND		1	
Hexachlorobenzene	ND	ug/L	2.2	0.28	EPA-8270C	ND		1	
Hexachlorobutadiene	ND	ug/L	2.2	0.22	EPA-8270C	ND		1	
Hexachlorocyclopentadiene	ND	ug/L	2.2	0.35	EPA-8270C	ND		1	
Hexachloroethane	ND	ug/L	2.2	0.22	EPA-8270C	ND		1	
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.2	0.33	EPA-8270C	ND		1	
Isophorone	ND	ug/L	2.2	0.22	EPA-8270C	ND		1	
2-Methylnaphthalene	ND	ug/L	2.2	0.22	EPA-8270C	ND		1	
Naphthalene	ND	ug/L	2.2	0.22	EPA-8270C	ND		1	
2-Naphthylamine	ND	ug/L	22	1.5	EPA-8270C	ND		1	
2-Nitroaniline	ND	ug/L	2.2	0.22	EPA-8270C	ND		1	
3-Nitroaniline	ND	ug/L	2.2	0.25	EPA-8270C	ND		1	
4-Nitroaniline	ND	ug/L	5.6	0.43	EPA-8270C	ND		1	
Nitrobenzene	ND	ug/L	2.2	0.22	EPA-8270C	ND		1	

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	2017309-04	Client Sample Name:	JPL GW Monitoring, MW-17-3, 6/15/2020 10:00:00AM, Blaine Tech					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.2	1.4	EPA-8270C	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.2	0.24	EPA-8270C	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.2	0.22	EPA-8270C	ND		1
Phenanthrene	ND	ug/L	2.2	0.22	EPA-8270C	ND		1
Pyrene	ND	ug/L	2.2	0.25	EPA-8270C	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.2	0.22	EPA-8270C	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.6	0.22	EPA-8270C	ND		1
2-Chlorophenol	ND	ug/L	2.2	0.22	EPA-8270C	ND		1
2,4-Dichlorophenol	ND	ug/L	2.2	0.26	EPA-8270C	ND		1
2,4-Dimethylphenol	ND	ug/L	2.2	0.22	EPA-8270C	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	11	0.27	EPA-8270C	ND		1
2,4-Dinitrophenol	ND	ug/L	11	0.22	EPA-8270C	ND		1
2-Methylphenol	ND	ug/L	2.2	0.22	EPA-8270C	ND		1
3- & 4-Methylphenol	ND	ug/L	2.2	0.45	EPA-8270C	ND		1
Total Methylphenol	ND	ug/L	4.5	0.68	EPA-8270C	ND		1
2-Nitrophenol	ND	ug/L	2.2	0.22	EPA-8270C	ND		1
4-Nitrophenol	ND	ug/L	2.2	0.34	EPA-8270C	ND		1
Pentachlorophenol	ND	ug/L	11	0.45	EPA-8270C	ND		1
Phenol	ND	ug/L	2.2	0.24	EPA-8270C	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.6	0.22	EPA-8270C	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.6	0.22	EPA-8270C	ND		1
Acetophenone	ND	ug/L	11	0.37	EPA-8270C	ND		1
2-Acetylaminofluorene	ND	ug/L	11	0.88	EPA-8270C	ND		1
Acrolein, dimethyl acetal	ND	ug/L	45	6.9	EPA-8270C	ND		1
4-Aminobiphenyl	ND	ug/L	22	0.39	EPA-8270C	ND		1
Aramite	ND	ug/L	11	0.39	EPA-8270C	ND		1
Benzaldehyde	ND	ug/L	11	3.3	EPA-8270C	ND		1
Benefin	ND	ug/L	11	0.99	EPA-8270C	ND		1
1,1-Biphenyl	ND	ug/L	11	4.0	EPA-8270C	ND		1
Caprolactam	ND	ug/L	11	4.0	EPA-8270C	ND		1
Carbazole	ND	ug/L	2.2	0.22	EPA-8270C	ND		1
cis-Chlordane	ND	ug/L	5.6	0.66	EPA-8270C	ND		1
trans-Chlordane	ND	ug/L	5.6	0.62	EPA-8270C	ND		1

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	2017309-04	Client Sample Name:	JPL GW Monitoring, MW-17-3, 6/15/2020 10:00:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Chlorobenzilate	ND	ug/L	11	0.30	EPA-8270C	ND		1	
1-Chloronaphthalene	ND	ug/L	11	0.42	EPA-8270C	ND		1	
cis-Diallate	ND	ug/L	5.6	2.7	EPA-8270C	ND		1	
trans-Diallate	ND	ug/L	5.6	0.63	EPA-8270C	ND		1	
Diallate	ND	ug/L	11	3.4	EPA-8270C	ND		1	
2,6-Dichlorophenol	ND	ug/L	11	0.32	EPA-8270C	ND		1	
Dimethoate	ND	ug/L	22	1.1	EPA-8270C	ND		1	
p-(Dimethylamino)azobenzene	ND	ug/L	11	0.30	EPA-8270C	ND		1	
7,12-Dimethylbenz[a]anthracene	ND	ug/L	11	0.42	EPA-8270C	ND		1	
3,3'-Dimethylbenzidine	ND	ug/L	22	0.47	EPA-8270C	ND		1	
a,a-Dimethylphenethylamine	ND	ug/L	22	5.5	EPA-8270C	ND		1	
Dimethyl sulfoxide (DMSO)	ND	ug/L	11	11	EPA-8270C	ND		1	
1,3-Dinitrobenzene	ND	ug/L	11	1.0	EPA-8270C	ND		1	
Dinoseb	ND	ug/L	11	1.0	EPA-8270C	ND		1	
Diphenylamine	ND	ug/L	11	0.69	EPA-8270C	ND		1	
Disulfoton	ND	ug/L	11	0.37	EPA-8270C	ND		1	
Ethyl methacrylate	ND	ug/L	11	1.4	EPA-8270C	ND		1	
Ethyl methanesulfonate	ND	ug/L	11	0.69	EPA-8270C	ND		1	
Ethyl Parathion	ND	ug/L	11	0.60	EPA-8270C	ND		1	
Famphur	ND	ug/L	22	4.6	EPA-8270C	ND		1	
Hexachlorophene	ND	ug/L	220	22	EPA-8270C	ND		1	
Hexachloropropene	ND	ug/L	22	0.26	EPA-8270C	ND		1	
Isodrin	ND	ug/L	11	0.48	EPA-8270C	ND		1	
cis-Isosafrole	ND	ug/L	5.6	0.50	EPA-8270C	ND		1	
trans-Isosafrole	ND	ug/L	5.6	0.33	EPA-8270C	ND		1	
Isosafrole	ND	ug/L	11	0.82	EPA-8270C	ND		1	
Kepone	ND	ug/L	22	2.5	EPA-8270C	ND		1	
Methapyrilene	ND	ug/L	11	3.3	EPA-8270C	ND		1	
Methoxychlor	ND	ug/L	11	0.22	EPA-8270C	ND		1	
3-Methylcholanthrene	ND	ug/L	11	0.35	EPA-8270C	ND		1	
Methyl methacrylate	ND	ug/L	45	4.3	EPA-8270C	ND		1	
Methyl methanesulfonate	ND	ug/L	11	0.45	EPA-8270C	ND		1	
1-Methylnaphthalene	ND	ug/L	11	0.29	EPA-8270C	ND		1	

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Powell, OH 43065

Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2017309-04		Client Sample Name: JPL GW Monitoring, MW-17-3, 6/15/2020 10:00:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Methyl parathion	ND	ug/L	11	0.80	EPA-8270C	ND		1
N-Methyl-2-pyrrolidinone	ND	ug/L	11	2.8	EPA-8270C	ND		1
1,4-Naphthoquinone	ND	ug/L	22	0.98	EPA-8270C	ND		1
1-Naphthylamine	ND	ug/L	22	0.34	EPA-8270C	ND		1
5-Nitro-o-toluidine	ND	ug/L	11	0.96	EPA-8270C	ND		1
4-Nitroquinoline 1-oxide	ND	ug/L	22	1.1	EPA-8270C	ND		1
N-Nitrosodibutylamine	ND	ug/L	11	0.29	EPA-8270C	ND		1
N-Nitrosodiethylamine	ND	ug/L	11	0.62	EPA-8270C	ND		1
N-Nitrosomethylethylamine	ND	ug/L	11	0.69	EPA-8270C	ND		1
N-Nitrosomorpholine	ND	ug/L	11	0.71	EPA-8270C	ND		1
N-Nitrosopiperidine	ND	ug/L	11	0.53	EPA-8270C	ND		1
N-Nitrosopyrrolidine	ND	ug/L	11	0.44	EPA-8270C	ND		1
Pentachlorobenzene	ND	ug/L	11	0.22	EPA-8270C	ND		1
Pentachloroethane	ND	ug/L	22	0.35	EPA-8270C	ND		1
Pentachloronitrobenzene	ND	ug/L	11	0.47	EPA-8270C	ND		1
Phenacetin	ND	ug/L	11	0.84	EPA-8270C	ND		1
1,4-Phenylenediamine	ND	ug/L	22	1.2	EPA-8270C	ND		1
Phorate	ND	ug/L	11	0.39	EPA-8270C	ND		1
2-Picoline	ND	ug/L	11	1.4	EPA-8270C	ND		1
PCB-1016	ND	ug/L	56	28	EPA-8270C	ND		1
PCB-1221	ND	ug/L	56	28	EPA-8270C	ND		1
PCB-1232	ND	ug/L	56	28	EPA-8270C	ND		1
PCB-1242	ND	ug/L	56	28	EPA-8270C	ND		1
PCB-1248	ND	ug/L	56	28	EPA-8270C	ND		1
PCB-1254	ND	ug/L	56	28	EPA-8270C	ND		1
PCB-1260	ND	ug/L	56	28	EPA-8270C	ND		1
PCB-1262	ND	ug/L	56	28	EPA-8270C	ND		1
PCB-1268	ND	ug/L	56	28	EPA-8270C	ND		1
Total PCB's (Summation)	ND	ug/L	56	28	EPA-8270C	ND		1
Prometryn	ND	ug/L	11	1.9	EPA-8270C	ND		1
Pronamide	ND	ug/L	11	0.25	EPA-8270C	ND		1
Propyleneglycol monomethyl ether acetate	ND	ug/L	11	4.2	EPA-8270C	ND		1
Prowl	ND	ug/L	11	0.93	EPA-8270C	ND		1

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Powell, OH 43065

Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2017309-04	Client Sample Name: JPL GW Monitoring, MW-17-3, 6/15/2020 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Pyridine	ND	ug/L	11	1.8	EPA-8270C	ND		1
Safrole	ND	ug/L	11	0.45	EPA-8270C	ND		1
Sulfotep	ND	ug/L	11	0.26	EPA-8270C	ND		1
1,2,4,5-Tetrachlorobenzene	ND	ug/L	11	0.22	EPA-8270C	ND		1
2,3,4,5-Tetrachlorophenol	ND	ug/L	11	5.6	EPA-8270C	ND		1
2,3,4,6-Tetrachlorophenol	ND	ug/L	11	0.82	EPA-8270C	ND		1
Thionazin	ND	ug/L	11	0.43	EPA-8270C	ND		1
2-Toluidine	ND	ug/L	11	0.46	EPA-8270C	ND		1
Toxaphene	ND	ug/L	110	56	EPA-8270C	ND		1
o,o,o-Triethylphosphorothioate	ND	ug/L	11	0.50	EPA-8270C	ND		1
1,3,5-Trinitrobenzene	ND	ug/L	11	1.6	EPA-8270C	ND		1
Tris(hydroxymethyl)nitromethane	ND	ug/L	56	5.6	EPA-8270C	ND		1
2-Fluorophenol (Surrogate)	67.2	%	30 - 120 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	43.4	%	12 - 110 (LCL - UCL)		EPA-8270C			1
Nitrobenzene-d5 (Surrogate)	97.2	%	50 - 130 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	94.6	%	55 - 125 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	123	%	40 - 150 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	109	%	40 - 150 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8270C	06/22/20 09:15	06/26/20 13:58	MK1	MS-B2	1.125	B080801	EPA 3510C

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Powell, OH 43065

Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

BCL Sample ID: 2017309-04		Client Sample Name: JPL GW Monitoring, MW-17-3, 6/15/2020 10:00:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1-Acetyl-2-thiourea	0	ug/L			EPA-8270C	0		1
2-Aminoanthraquinone	0	ug/L			EPA-8270C	0		1
3-Amino-9-ethylcarbazole	0	ug/L			EPA-8270C	0		1
Anilazine	0	ug/L			EPA-8270C	0		1
o-Anisidine	0	ug/L			EPA-8270C	0		1
Azinphos methyl	0	ug/L			EPA-8270C	0		1
Barban	0	ug/L			EPA-8270C	0		1
p-Benzoquinone	0	ug/L			EPA-8270C	0		1
Bromoxynil	0	ug/L			EPA-8270C	0		1
Captafol	0	ug/L			EPA-8270C	0		1
Captan	0	ug/L			EPA-8270C	0		1
Carbaryl	0	ug/L			EPA-8270C	0		1
Carbofuran	0	ug/L			EPA-8270C	0		1
Carbophenothion	0	ug/L			EPA-8270C	0		1
Chlorfenvinphos	0	ug/L			EPA-8270C	0		1
5-Chloro-2-methylaniline	0	ug/L			EPA-8270C	0		1
3-(Chloromethyl) pyridine hydrochloride	0	ug/L			EPA-8270C	0		1
4-Chloro-1,2-phenylenediamine	0	ug/L			EPA-8270C	0		1
4-Chloro-1,3-phenylenediamine	0	ug/L			EPA-8270C	0		1
Coumaphos	0	ug/L			EPA-8270C	0		1
p-Cresidine	0	ug/L			EPA-8270C	0		1
Crotoxyphos	0	ug/L			EPA-8270C	0		1
2-Cyclohexyl-4,6-dinitrophenol	0	ug/L			EPA-8270C	0		1
Demeton-O	0	ug/L			EPA-8270C	0		1
Demeton-S	0	ug/L			EPA-8270C	0		1
2,4-Diaminotoluene	0	ug/L			EPA-8270C	0		1
Dibenz[a,j]acridine	0	ug/L			EPA-8270C	0		1
Dibenzo[a,e]pyrene	0	ug/L			EPA-8270C	0		1
1,2-Dibromo-3-chloropropane	0	ug/L			EPA-8270C	0		1
Dichlone	0	ug/L			EPA-8270C	0		1
Dichlorvos	0	ug/L			EPA-8270C	0		1
Dicrotophos	0	ug/L			EPA-8270C	0		1
Diethylstilbestrol	0	ug/L			EPA-8270C	0		1

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

BCL Sample ID: 2017309-04	Client Sample Name: JPL GW Monitoring, MW-17-3, 6/15/2020 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl sulfate	0	ug/L			EPA-8270C	0		1
Dihydrosafrole	0	ug/L			EPA-8270C	0		1
3,3'-Dimethoxybenzidine	0	ug/L			EPA-8270C	0		1
1,2-Dinitrobenzene	0	ug/L			EPA-8270C	0		1
1,4-Dinitrobenzene	0	ug/L			EPA-8270C	0		1
Dinocap	0	ug/L			EPA-8270C	0		1
Dioxathion	0	ug/L			EPA-8270C	0		1
5,5-Diphenylhydantoin	0	ug/L			EPA-8270C	0		1
Endrin ketone	0	ug/L			EPA-8270C	0		1
EPN	0	ug/L			EPA-8270C	0		1
Ethion	0	ug/L			EPA-8270C	0		1
Ethyl carbamate	0	ug/L			EPA-8270C	0		1
Fensulfothion	0	ug/L			EPA-8270C	0		1
Fenthion	0	ug/L			EPA-8270C	0		1
Fluchloralin	0	ug/L			EPA-8270C	0		1
Hexamethylphosphoramide	0	ug/L			EPA-8270C	0		1
Hydroquinone	0	ug/L			EPA-8270C	0		1
Leptophos	0	ug/L			EPA-8270C	0		1
Malathion	0	ug/L			EPA-8270C	0		1
Maleic Anhydride	0	ug/L			EPA-8270C	0		1
Mestranol	0	ug/L			EPA-8270C	0		1
4,4'-Methylenebis(2-chloroaniline)	0	ug/L			EPA-8270C	0		1
4,4'-Methylenebis[N,N-dimethylaniline]	0	ug/L			EPA-8270C	0		1
Mevinphos	0	ug/L			EPA-8270C	0		1
Mexacarbate	0	ug/L			EPA-8270C	0		1
Mirex	0	ug/L			EPA-8270C	0		1
Monocrotophos	0	ug/L			EPA-8270C	0		1
Naled	0	ug/L			EPA-8270C	0		1
Nicotine	0	ug/L			EPA-8270C	0		1
5-Nitroacenaphthene	0	ug/L			EPA-8270C	0		1
5-Nitro-o-anisidine	0	ug/L			EPA-8270C	0		1
4-Nitrobiphenyl	0	ug/L			EPA-8270C	0		1
Nitrophen	0	ug/L			EPA-8270C	0		1

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Powell, OH 43065

Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

BCL Sample ID: 2017309-04	Client Sample Name: JPL GW Monitoring, MW-17-3, 6/15/2020 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Octamethylpyrophosphoramide	0	ug/L			EPA-8270C	0		1
4,4'-Oxydianiline	0	ug/L			EPA-8270C	0		1
Phenobarbital	0	ug/L			EPA-8270C	0		1
Phosalone	0	ug/L			EPA-8270C	0		1
Phosmet	0	ug/L			EPA-8270C	0		1
Phosphamidon	0	ug/L			EPA-8270C	0		1
Phthalic anhydride	0	ug/L			EPA-8270C	0		1
Piperonyl sulfoxide	0	ug/L			EPA-8270C	0		1
Propylthiouracil	0	ug/L			EPA-8270C	0		1
Resorcinol	0	ug/L			EPA-8270C	0		1
Strychnine	0	ug/L			EPA-8270C	0		1
Sulfallate	0	ug/L			EPA-8270C	0		1
Terbufos	0	ug/L			EPA-8270C	0		1
Tetrachlorvinphos	0	ug/L			EPA-8270C	0		1
TEPP	0	ug/L			EPA-8270C	0		1
Thiophenol (Benzenethiol)	0	ug/L			EPA-8270C	0		1
Toluene 2,4-diisocyanate	0	ug/L			EPA-8270C	0		1
Trifluralin	0	ug/L			EPA-8270C	0		1
2,4,5-Trimethylaniline	0	ug/L			EPA-8270C	0		1
Trimethyl phosphate	0	ug/L			EPA-8270C	0		1
Tris(2,3-dibromopropyl) phosphate	0	ug/L			EPA-8270C	0		1
Tri-p-tolyl phosphate	0	ug/L			EPA-8270C	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8270C	06/22/20 09:15	06/26/20 13:58	MK1	MS-B2	1.125	B080801	EPA 3510C

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017309-04	Client Sample Name: JPL GW Monitoring, MW-17-3, 6/15/2020 10:00:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	140	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	0.13	ug/L	1.0	0.10	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/17/20 11:00	06/17/20	15:25	KB1	IC-4	1	B080434	No Prep
2	EPA-200.8	06/17/20 10:20	06/17/20	18:44	AS1	PE-EL2	1	B080392	EPA 200.2
3	EPA-200.7	06/18/20 09:15	06/18/20	16:57	JRG	PE-OP4	1	B080479	EPA 200.2

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017309-05	Client Sample Name: JPL GW Monitoring, MW-17-2, 6/15/2020 3:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/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: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017309-05	Client Sample Name: JPL GW Monitoring, MW-17-2, 6/15/2020 3:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND	V11	1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND	V11	1
1,1,1-Trichloroethane	ND	ug/L	0.50	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	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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

Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017309-05	Client Sample Name: JPL GW Monitoring, MW-17-2, 6/15/2020 3:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/17/20 07:00	06/17/20 15:18	MGC	MS-V5	1	B080341	EPA 524.2

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017309-05	Client Sample Name: JPL GW Monitoring, MW-17-2, 6/15/2020 3:30:00PM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/17/20 07:00	06/17/20	15:18	MGC	MS-V5	1	B080341	EPA 524.2

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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Tidewater Inc. - Powell
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Powell, OH 43065

Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017309-05	Client Sample Name: JPL GW Monitoring, MW-17-2, 6/15/2020 3:30:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	1.3	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	510	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/17/20 11:00	06/17/20	15:35	KB1	IC-4	1	B080434	No Prep
2	EPA-200.8	06/17/20 10:20	06/17/20	18:45	AS1	PE-EL2	1	B080392	EPA 200.2
3	EPA-200.7	06/18/20 09:15	06/18/20	17:00	JRG	PE-OP4	1	B080479	EPA 200.2

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2017309-06	Client Sample Name:	JPL GW Monitoring, MW-17-1, 6/15/2020 4:30:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1	
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1	
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1	
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chlorobenzene	ND	ug/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: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017309-06	Client Sample Name: JPL GW Monitoring, MW-17-1, 6/15/2020 4:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND	V11	1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND	V11	1
1,1,1-Trichloroethane	ND	ug/L	0.50	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	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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Powell, OH 43065

Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017309-06	Client Sample Name: JPL GW Monitoring, MW-17-1, 6/15/2020 4:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	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)	98.2	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/17/20 07:00	06/17/20 15:43	MGC	MS-V5	1	B080341	EPA 524.2

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017309-06	Client Sample Name: JPL GW Monitoring, MW-17-1, 6/15/2020 4:30:00PM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/17/20 07:00	06/17/20	15:43	MGC	MS-V5	1	B080341	EPA 524.2

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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Powell, OH 43065

Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017309-06	Client Sample Name: JPL GW Monitoring, MW-17-1, 6/15/2020 4:30:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000056	mg/L	0.00020	0.000032	EPA-218.6	ND	J	1
Total Recoverable Arsenic	0.73	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	0.55	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	52	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/17/20 11:00	06/17/20	15:44	KB1	IC-4	1	B080434	No Prep
2	EPA-200.8	06/17/20 10:20	06/17/20	18:47	AS1	PE-EL2	1	B080392	EPA 200.2
3	EPA-200.7	06/18/20 09:15	06/18/20	17:02	JRG	PE-OP4	1	B080479	EPA 200.2

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Tidewater Inc. - Powell
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Powell, OH 43065

Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017309-07	Client Sample Name: JPL GW Monitoring, EB-5-061520, 6/15/2020 3:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/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: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017309-07	Client Sample Name: JPL GW Monitoring, EB-5-061520, 6/15/2020 3:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND	V11	1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND	V11	1
1,1,1-Trichloroethane	ND	ug/L	0.50	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	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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

Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017309-07	Client Sample Name: JPL GW Monitoring, EB-5-061520, 6/15/2020 3:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	99.8	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/17/20 07:00	06/17/20 16:07	MGC	MS-V5	1	B080341	EPA 524.2

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Powell, OH 43065

Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017309-07	Client Sample Name: JPL GW Monitoring, EB-5-061520, 6/15/2020 3:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/17/20 07:00	06/17/20	16:07	MGC	MS-V5	1	B080341	EPA 524.2

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Powell, OH 43065

Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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Powell, OH 43065

Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017309-07	Client Sample Name: JPL GW Monitoring, EB-5-061520, 6/15/2020 3:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	0.52	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/17/20 11:00	06/17/20	15:54	KB1	IC-4	1	B080434	No Prep
2	EPA-200.8	06/17/20 10:20	06/17/20	18:49	AS1	PE-EL2	1	B080392	EPA 200.2
3	EPA-200.7	06/18/20 09:15	06/18/20	17:04	JRG	PE-OP4	1	B080479	EPA 200.2

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017309-08	Client Sample Name: JPL GW Monitoring, Dup-2-2Q2020, 6/15/2020 3:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/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: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017309-08	Client Sample Name: JPL GW Monitoring, Dup-2-2Q2020, 6/15/2020 3:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND	V11	1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND	V11	1
1,1,1-Trichloroethane	ND	ug/L	0.50	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	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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Powell, OH 43065

Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017309-08	Client Sample Name: JPL GW Monitoring, Dup-2-2Q2020, 6/15/2020 3:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	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)	97.8	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/17/20 07:00	06/17/20 16:31	MGC	MS-V5	1	B080341	EPA 524.2

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Powell, OH 43065

Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017309-08	Client Sample Name: JPL GW Monitoring, Dup-2-2Q2020, 6/15/2020 3:40:00PM, Blaine Tech
----------------------------------	--

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/17/20 07:00	06/17/20	16:31	MGC	MS-V5	1	B080341	EPA 524.2

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017309-08	Client Sample Name: JPL GW Monitoring, Dup-2-2Q2020, 6/15/2020 3:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	480	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/17/20 11:00	06/17/20	16:04	KB1	IC-4	1	B080434	No Prep
2	EPA-200.8	06/17/20 10:20	06/17/20	18:51	AS1	PE-EL2	1	B080392	EPA 200.2
3	EPA-200.7	06/18/20 09:15	06/18/20	17:06	JRG	PE-OP4	1	B080479	EPA 200.2

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080341						
Benzene	B080341-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B080341-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B080341-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B080341-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B080341-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B080341-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B080341-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B080341-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B080341-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B080341-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B080341-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B080341-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B080341-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B080341-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B080341-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B080341-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B080341-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B080341-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B080341-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B080341-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B080341-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B080341-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B080341-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B080341-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B080341-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B080341-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B080341-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B080341-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B080341-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B080341-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B080341-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B080341-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B080341-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B080341-BLK1	ND	ug/L	0.50	0.14	

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080341						
trans-1,3-Dichloropropene	B080341-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B080341-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B080341-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B080341-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B080341-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B080341-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B080341-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B080341-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B080341-BLK1	ND	ug/L	0.50	0.12	
Styrene	B080341-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B080341-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2,2-Tetrachloroethane	B080341-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B080341-BLK1	ND	ug/L	0.50	0.23	
Toluene	B080341-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B080341-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B080341-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B080341-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B080341-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B080341-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B080341-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B080341-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B080341-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B080341-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B080341-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B080341-BLK1	ND	ug/L	0.50	0.18	
Acetone	B080341-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B080341-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B080341-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B080341-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B080341-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	B080341-BLK1	ND	ug/L	1.0	0.48	
trans-1,4-Dichloro-2-butene	B080341-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B080341-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B080341-BLK1	ND	ug/L	4.0	1.3	

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080341						
Ethyl t-butyl ether	B080341-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B080341-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B080341-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B080341-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B080341-BLK1	ND	ug/L	10	3.3	
Methyl iodide	B080341-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B080341-BLK1	ND	ug/L	10	2.4	
Methyl methacrylate	B080341-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B080341-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B080341-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B080341-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B080341-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B080341-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B080341-BLK1	102	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B080341-BLK1	99.2	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B080341-BLK1	101	%	80 - 120 (LCL - UCL)		

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B080341										
Benzene	B080341-BS1	LCS	21.090	25.000	ug/L	84.4		70 - 130		
Bromodichloromethane	B080341-BS1	LCS	25.170	25.000	ug/L	101		70 - 130		
Chlorobenzene	B080341-BS1	LCS	23.180	25.000	ug/L	92.7		70 - 130		
Chloroethane	B080341-BS1	LCS	21.400	25.000	ug/L	85.6		70 - 130		
1,4-Dichlorobenzene	B080341-BS1	LCS	24.110	25.000	ug/L	96.4		70 - 130		
1,1-Dichloroethane	B080341-BS1	LCS	21.330	25.000	ug/L	85.3		70 - 130		
1,1-Dichloroethene	B080341-BS1	LCS	22.900	25.000	ug/L	91.6		70 - 130		
Toluene	B080341-BS1	LCS	24.220	25.000	ug/L	96.9		70 - 130		
Trichloroethene	B080341-BS1	LCS	23.580	25.000	ug/L	94.3		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B080341-BS1	LCS	10.020	10.000	ug/L	100		75 - 125		
Toluene-d8 (Surrogate)	B080341-BS1	LCS	9.9200	10.000	ug/L	99.2		80 - 120		
4-Bromofluorobenzene (Surrogate)	B080341-BS1	LCS	10.220	10.000	ug/L	102		80 - 120		

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B080341		Used client sample: N								
Benzene	MS	2017168-02	ND	21.420	25.000	ug/L		85.7		70 - 130
	MSD	2017168-02	ND	19.230	25.000	ug/L	10.8	76.9	20	70 - 130
Bromodichloromethane	MS	2017168-02	ND	25.770	25.000	ug/L		103		70 - 130
	MSD	2017168-02	ND	23.830	25.000	ug/L	7.8	95.3	20	70 - 130
Chlorobenzene	MS	2017168-02	ND	22.690	25.000	ug/L		90.8		70 - 130
	MSD	2017168-02	ND	22.090	25.000	ug/L	2.7	88.4	20	70 - 130
Chloroethane	MS	2017168-02	ND	21.770	25.000	ug/L		87.1		70 - 130
	MSD	2017168-02	ND	19.720	25.000	ug/L	9.9	78.9	20	70 - 130
1,4-Dichlorobenzene	MS	2017168-02	ND	23.560	25.000	ug/L		94.2		70 - 130
	MSD	2017168-02	ND	22.690	25.000	ug/L	3.8	90.8	20	70 - 130
1,1-Dichloroethane	MS	2017168-02	ND	22.190	25.000	ug/L		88.8		70 - 130
	MSD	2017168-02	ND	19.900	25.000	ug/L	10.9	79.6	20	70 - 130
1,1-Dichloroethene	MS	2017168-02	ND	23.510	25.000	ug/L		94.0		70 - 130
	MSD	2017168-02	ND	21.280	25.000	ug/L	10.0	85.1	20	70 - 130
Toluene	MS	2017168-02	ND	23.750	25.000	ug/L		95.0		70 - 130
	MSD	2017168-02	ND	22.150	25.000	ug/L	7.0	88.6	20	70 - 130
Trichloroethene	MS	2017168-02	ND	23.600	25.000	ug/L		94.4		70 - 130
	MSD	2017168-02	ND	22.380	25.000	ug/L	5.3	89.5	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	2017168-02	ND	10.080	10.000	ug/L		101		75 - 125
	MSD	2017168-02	ND	9.3500	10.000	ug/L	7.5	93.5		75 - 125
Toluene-d8 (Surrogate)	MS	2017168-02	ND	9.6400	10.000	ug/L		96.4		80 - 120
	MSD	2017168-02	ND	9.4200	10.000	ug/L	2.3	94.2		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	2017168-02	ND	9.6800	10.000	ug/L		96.8		80 - 120
	MSD	2017168-02	ND	9.9600	10.000	ug/L	2.9	99.6		80 - 120

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080341						
Chloroacetonitrile	B080341-BLK1	0	ug/L			
1-Chlorobutane	B080341-BLK1	0	ug/L			
1,1-Dichloropropanone	B080341-BLK1	0	ug/L			
Methyl acrylate	B080341-BLK1	0	ug/L			
Nitrobenzene	B080341-BLK1	0	ug/L			
2-Nitropropane	B080341-BLK1	0	ug/L			

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080801						
Acenaphthene	B080801-BLK1	ND	ug/L	2.0	0.20	
Acenaphthylene	B080801-BLK1	ND	ug/L	2.0	0.20	
Aldrin	B080801-BLK1	ND	ug/L	2.0	0.23	
Aniline	B080801-BLK1	ND	ug/L	5.0	0.28	
Anthracene	B080801-BLK1	ND	ug/L	2.0	0.20	
Benzidine	B080801-BLK1	ND	ug/L	20	1.6	
Benzo[a]anthracene	B080801-BLK1	ND	ug/L	2.0	0.21	
Benzo[b]fluoranthene	B080801-BLK1	ND	ug/L	2.0	0.24	
Benzo[k]fluoranthene	B080801-BLK1	ND	ug/L	2.0	0.30	
Benzo[a]pyrene	B080801-BLK1	ND	ug/L	2.0	0.20	
Benzo[g,h,i]perylene	B080801-BLK1	ND	ug/L	2.0	0.33	
Benzoic acid	B080801-BLK1	ND	ug/L	10	0.52	
Benzyl alcohol	B080801-BLK1	ND	ug/L	2.0	0.20	
Benzyl butyl phthalate	B080801-BLK1	ND	ug/L	2.0	0.20	
alpha-BHC	B080801-BLK1	ND	ug/L	2.0	0.20	
beta-BHC	B080801-BLK1	ND	ug/L	2.0	0.20	
delta-BHC	B080801-BLK1	ND	ug/L	2.0	0.20	
gamma-BHC (Lindane)	B080801-BLK1	ND	ug/L	2.0	0.20	
bis(2-Chloroethoxy)methane	B080801-BLK1	ND	ug/L	2.0	0.20	
bis(2-Chloroethyl) ether	B080801-BLK1	ND	ug/L	2.0	0.31	
bis(2-Chloroisopropyl)ether	B080801-BLK1	ND	ug/L	2.0	0.20	
bis(2-Ethylhexyl)phthalate	B080801-BLK1	ND	ug/L	4.0	0.20	
4-Bromophenyl phenyl ether	B080801-BLK1	ND	ug/L	2.0	0.20	
4-Chloroaniline	B080801-BLK1	ND	ug/L	2.0	1.1	
2-Chloronaphthalene	B080801-BLK1	ND	ug/L	2.0	0.20	
4-Chlorophenyl phenyl ether	B080801-BLK1	ND	ug/L	2.0	0.20	
Chrysene	B080801-BLK1	ND	ug/L	2.0	0.20	
4,4'-DDD	B080801-BLK1	ND	ug/L	2.0	0.26	
4,4'-DDE	B080801-BLK1	ND	ug/L	3.0	0.24	
4,4'-DDT	B080801-BLK1	ND	ug/L	2.0	0.22	
Dibenzo[a,h]anthracene	B080801-BLK1	ND	ug/L	3.0	0.34	
Dibenzofuran	B080801-BLK1	ND	ug/L	2.0	0.20	
1,2-Dichlorobenzene	B080801-BLK1	ND	ug/L	2.0	0.20	
1,3-Dichlorobenzene	B080801-BLK1	ND	ug/L	2.0	0.20	

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

Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080801						
1,4-Dichlorobenzene	B080801-BLK1	ND	ug/L	2.0	0.27	
3,3-Dichlorobenzidine	B080801-BLK1	ND	ug/L	10	0.53	
Dieldrin	B080801-BLK1	ND	ug/L	3.0	0.39	
Diethyl phthalate	B080801-BLK1	ND	ug/L	2.0	0.20	
Dimethyl phthalate	B080801-BLK1	ND	ug/L	2.0	0.20	
Di-n-butyl phthalate	B080801-BLK1	ND	ug/L	2.0	0.20	
2,4-Dinitrotoluene	B080801-BLK1	ND	ug/L	2.0	0.40	
2,6-Dinitrotoluene	B080801-BLK1	ND	ug/L	2.0	0.20	
Di-n-octyl phthalate	B080801-BLK1	ND	ug/L	2.0	0.21	
1,2-Diphenylhydrazine	B080801-BLK1	ND	ug/L	2.0	0.20	
Endosulfan I	B080801-BLK1	ND	ug/L	10	0.31	
Endosulfan II	B080801-BLK1	ND	ug/L	10	0.30	
Endosulfan sulfate	B080801-BLK1	ND	ug/L	3.0	0.23	
Endrin	B080801-BLK1	ND	ug/L	2.0	0.38	
Endrin aldehyde	B080801-BLK1	ND	ug/L	10	0.44	
Fluoranthene	B080801-BLK1	ND	ug/L	2.0	0.28	
Fluorene	B080801-BLK1	ND	ug/L	2.0	0.20	
Heptachlor	B080801-BLK1	ND	ug/L	2.0	0.20	
Heptachlor epoxide	B080801-BLK1	ND	ug/L	2.0	0.26	
Hexachlorobenzene	B080801-BLK1	ND	ug/L	2.0	0.25	
Hexachlorobutadiene	B080801-BLK1	ND	ug/L	2.0	0.20	
Hexachlorocyclopentadiene	B080801-BLK1	ND	ug/L	2.0	0.31	
Hexachloroethane	B080801-BLK1	ND	ug/L	2.0	0.20	
Indeno[1,2,3-cd]pyrene	B080801-BLK1	ND	ug/L	2.0	0.29	
Isophorone	B080801-BLK1	ND	ug/L	2.0	0.20	
2-Methylnaphthalene	B080801-BLK1	ND	ug/L	2.0	0.20	
Naphthalene	B080801-BLK1	ND	ug/L	2.0	0.20	
2-Naphthylamine	B080801-BLK1	ND	ug/L	20	1.3	
2-Nitroaniline	B080801-BLK1	ND	ug/L	2.0	0.20	
3-Nitroaniline	B080801-BLK1	ND	ug/L	2.0	0.22	
4-Nitroaniline	B080801-BLK1	ND	ug/L	5.0	0.38	
Nitrobenzene	B080801-BLK1	ND	ug/L	2.0	0.20	
N-Nitrosodimethylamine	B080801-BLK1	ND	ug/L	2.0	1.2	
N-Nitrosodi-N-propylamine	B080801-BLK1	ND	ug/L	2.0	0.21	

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080801						
N-Nitrosodiphenylamine	B080801-BLK1	ND	ug/L	2.0	0.20	
Phenanthrene	B080801-BLK1	ND	ug/L	2.0	0.20	
Pyrene	B080801-BLK1	ND	ug/L	2.0	0.22	
1,2,4-Trichlorobenzene	B080801-BLK1	ND	ug/L	2.0	0.20	
4-Chloro-3-methylphenol	B080801-BLK1	ND	ug/L	5.0	0.20	
2-Chlorophenol	B080801-BLK1	ND	ug/L	2.0	0.20	
2,4-Dichlorophenol	B080801-BLK1	ND	ug/L	2.0	0.23	
2,4-Dimethylphenol	B080801-BLK1	ND	ug/L	2.0	0.20	
4,6-Dinitro-2-methylphenol	B080801-BLK1	ND	ug/L	10	0.24	
2,4-Dinitrophenol	B080801-BLK1	ND	ug/L	10	0.20	
2-Methylphenol	B080801-BLK1	ND	ug/L	2.0	0.20	
3- & 4-Methylphenol	B080801-BLK1	ND	ug/L	2.0	0.40	
Total Methylphenol	B080801-BLK1	ND	ug/L	4.0	0.60	
2-Nitrophenol	B080801-BLK1	ND	ug/L	2.0	0.20	
4-Nitrophenol	B080801-BLK1	ND	ug/L	2.0	0.30	
Pentachlorophenol	B080801-BLK1	ND	ug/L	10	0.40	
Phenol	B080801-BLK1	ND	ug/L	2.0	0.21	
2,4,5-Trichlorophenol	B080801-BLK1	ND	ug/L	5.0	0.20	
2,4,6-Trichlorophenol	B080801-BLK1	ND	ug/L	5.0	0.20	
Acetophenone	B080801-BLK1	ND	ug/L	10	0.33	
2-Acetylaminofluorene	B080801-BLK1	ND	ug/L	10	0.78	
Acrolein, dimethyl acetal	B080801-BLK1	ND	ug/L	40	6.1	
4-Aminobiphenyl	B080801-BLK1	ND	ug/L	20	0.35	
Aramite	B080801-BLK1	ND	ug/L	10	0.35	
Benzaldehyde	B080801-BLK1	ND	ug/L	10	2.9	
Benefin	B080801-BLK1	ND	ug/L	10	0.88	
1,1-Biphenyl	B080801-BLK1	ND	ug/L	10	3.6	
Caprolactam	B080801-BLK1	ND	ug/L	10	3.6	
Carbazole	B080801-BLK1	ND	ug/L	2.0	0.20	
cis-Chlordane	B080801-BLK1	ND	ug/L	5.0	0.59	
trans-Chlordane	B080801-BLK1	ND	ug/L	5.0	0.55	
Chlorobenzilate	B080801-BLK1	ND	ug/L	10	0.27	
1-Chloronaphthalene	B080801-BLK1	ND	ug/L	10	0.37	
cis-Diallate	B080801-BLK1	ND	ug/L	5.0	2.4	

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080801						
trans-Diallate	B080801-BLK1	ND	ug/L	5.0	0.56	
Diallate	B080801-BLK1	ND	ug/L	10	3.0	
2,6-Dichlorophenol	B080801-BLK1	ND	ug/L	10	0.28	
Dimethoate	B080801-BLK1	ND	ug/L	20	0.99	
p-(Dimethylamino)azobenzene	B080801-BLK1	ND	ug/L	10	0.27	
7,12-Dimethylbenz[a]anthracene	B080801-BLK1	ND	ug/L	10	0.37	
3,3'-Dimethylbenzidine	B080801-BLK1	ND	ug/L	20	0.42	
a,a-Dimethylphenethylamine	B080801-BLK1	ND	ug/L	20	4.9	
Dimethyl sulfoxide (DMSO)	B080801-BLK1	ND	ug/L	10	9.5	
1,3-Dinitrobenzene	B080801-BLK1	ND	ug/L	10	0.93	
Dinoseb	B080801-BLK1	ND	ug/L	10	0.91	
Diphenylamine	B080801-BLK1	ND	ug/L	10	0.61	
Disulfoton	B080801-BLK1	ND	ug/L	10	0.33	
Ethyl methacrylate	B080801-BLK1	ND	ug/L	10	1.2	
Ethyl methanesulfonate	B080801-BLK1	ND	ug/L	10	0.61	
Ethyl Parathion	B080801-BLK1	ND	ug/L	10	0.53	
Famphur	B080801-BLK1	ND	ug/L	20	4.1	
Hexachlorophene	B080801-BLK1	ND	ug/L	200	20	
Hexachloropropene	B080801-BLK1	ND	ug/L	20	0.23	
Isodrin	B080801-BLK1	ND	ug/L	10	0.43	
cis-Isosafrole	B080801-BLK1	ND	ug/L	5.0	0.44	
trans-Isosafrole	B080801-BLK1	ND	ug/L	5.0	0.29	
Isosafrole	B080801-BLK1	ND	ug/L	10	0.73	
Kepone	B080801-BLK1	ND	ug/L	20	2.2	
Methapyrilene	B080801-BLK1	ND	ug/L	10	2.9	
Methoxychlor	B080801-BLK1	ND	ug/L	10	0.20	
3-Methylcholanthrene	B080801-BLK1	ND	ug/L	10	0.31	
Methyl methacrylate	B080801-BLK1	ND	ug/L	40	3.8	
Methyl methanesulfonate	B080801-BLK1	ND	ug/L	10	0.40	
1-Methylnaphthalene	B080801-BLK1	ND	ug/L	10	0.26	
Methyl parathion	B080801-BLK1	ND	ug/L	10	0.71	
N-Methyl-2-pyrrolidinone	B080801-BLK1	ND	ug/L	10	2.5	
1,4-Naphthoquinone	B080801-BLK1	ND	ug/L	20	0.87	
1-Naphthylamine	B080801-BLK1	ND	ug/L	20	0.30	

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Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080801						
5-Nitro-o-toluidine	B080801-BLK1	ND	ug/L	10	0.85	
4-Nitroquinoline 1-oxide	B080801-BLK1	ND	ug/L	20	0.95	
N-Nitrosodibutylamine	B080801-BLK1	ND	ug/L	10	0.26	
N-Nitrosodiethylamine	B080801-BLK1	ND	ug/L	10	0.55	
N-Nitrosomethylethylamine	B080801-BLK1	ND	ug/L	10	0.61	
N-Nitrosomorpholine	B080801-BLK1	ND	ug/L	10	0.63	
N-Nitrosopiperidine	B080801-BLK1	ND	ug/L	10	0.47	
N-Nitrosopyrrolidine	B080801-BLK1	ND	ug/L	10	0.39	
Pentachlorobenzene	B080801-BLK1	ND	ug/L	10	0.20	
Pentachloroethane	B080801-BLK1	ND	ug/L	20	0.31	
Pentachloronitrobenzene	B080801-BLK1	ND	ug/L	10	0.42	
Phenacetin	B080801-BLK1	ND	ug/L	10	0.75	
1,4-Phenylenediamine	B080801-BLK1	ND	ug/L	20	1.1	
Phorate	B080801-BLK1	ND	ug/L	10	0.35	
2-Picoline	B080801-BLK1	ND	ug/L	10	1.2	
PCB-1268	B080801-BLK1	ND	ug/L	50	25	
PCB-1262	B080801-BLK1	ND	ug/L	50	25	
PCB-1260	B080801-BLK1	ND	ug/L	50	25	
PCB-1254	B080801-BLK1	ND	ug/L	50	25	
PCB-1242	B080801-BLK1	ND	ug/L	50	25	
PCB-1248	B080801-BLK1	ND	ug/L	50	25	
PCB-1232	B080801-BLK1	ND	ug/L	50	25	
PCB-1221	B080801-BLK1	ND	ug/L	50	25	
PCB-1016	B080801-BLK1	ND	ug/L	50	25	
Total PCB's (Summation)	B080801-BLK1	ND	ug/L	50	25	
Prometryn	B080801-BLK1	ND	ug/L	10	1.7	
Pronamide	B080801-BLK1	ND	ug/L	10	0.22	
Propyleneglycol monomethyl ether acetate	B080801-BLK1	ND	ug/L	10	3.7	
Prowl	B080801-BLK1	ND	ug/L	10	0.83	
Pyridine	B080801-BLK1	ND	ug/L	10	1.6	
Safrole	B080801-BLK1	ND	ug/L	10	0.40	
Sulfotep	B080801-BLK1	ND	ug/L	10	0.23	
1,2,4,5-Tetrachlorobenzene	B080801-BLK1	ND	ug/L	10	0.20	
2,3,4,5-Tetrachlorophenol	B080801-BLK1	ND	ug/L	10	5.0	

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Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080801						
2,3,4,6-Tetrachlorophenol	B080801-BLK1	ND	ug/L	10	0.73	
Thionazin	B080801-BLK1	ND	ug/L	10	0.38	
2-Toluidine	B080801-BLK1	ND	ug/L	10	0.41	
Toxaphene	B080801-BLK1	ND	ug/L	100	50	
o,o,o-Triethylphosphorothioate	B080801-BLK1	ND	ug/L	10	0.44	
1,3,5-Trinitrobenzene	B080801-BLK1	ND	ug/L	10	1.4	
Tris(hydroxymethyl)nitromethane	B080801-BLK1	ND	ug/L	50	5.0	
2-Fluorophenol (Surrogate)	B080801-BLK1	67.2	%	30 - 120 (LCL - UCL)		
Phenol-d5 (Surrogate)	B080801-BLK1	37.9	%	12 - 110 (LCL - UCL)		
Nitrobenzene-d5 (Surrogate)	B080801-BLK1	104	%	50 - 130 (LCL - UCL)		
2-Fluorobiphenyl (Surrogate)	B080801-BLK1	93.0	%	55 - 125 (LCL - UCL)		
2,4,6-Tribromophenol (Surrogate)	B080801-BLK1	126	%	40 - 150 (LCL - UCL)		
p-Terphenyl-d14 (Surrogate)	B080801-BLK1	104	%	40 - 150 (LCL - UCL)		

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: B080801										
Acenaphthene	B080801-BS1	LCS	39.955	50.000	ug/L	79.9		50 - 120		
1,4-Dichlorobenzene	B080801-BS1	LCS	42.355	50.000	ug/L	84.7		50 - 120		
2,4-Dinitrotoluene	B080801-BS1	LCS	50.717	50.000	ug/L	101		50 - 120		
Hexachlorobenzene	B080801-BS1	LCS	48.634	50.000	ug/L	97.3		60 - 120		
Hexachlorobutadiene	B080801-BS1	LCS	33.216	50.000	ug/L	66.4		40 - 110		
Hexachloroethane	B080801-BS1	LCS	39.322	50.000	ug/L	78.6		40 - 120		
Nitrobenzene	B080801-BS1	LCS	54.634	50.000	ug/L	109		50 - 120		
N-Nitrosodi-N-propylamine	B080801-BS1	LCS	42.998	50.000	ug/L	86.0		50 - 120		
Pyrene	B080801-BS1	LCS	44.544	50.000	ug/L	89.1		40 - 140		
1,2,4-Trichlorobenzene	B080801-BS1	LCS	45.389	50.000	ug/L	90.8		45 - 120		
4-Chloro-3-methylphenol	B080801-BS1	LCS	39.024	50.000	ug/L	78.0		50 - 120		
2-Chlorophenol	B080801-BS1	LCS	33.600	50.000	ug/L	67.2		50 - 120		
2-Methylphenol	B080801-BS1	LCS	34.829	50.000	ug/L	69.7		40 - 110		
3- & 4-Methylphenol	B080801-BS1	LCS	62.611	100.00	ug/L	62.6		40 - 110		
4-Nitrophenol	B080801-BS1	LCS	17.242	50.000	ug/L	34.5		10 - 110		
Pentachlorophenol	B080801-BS1	LCS	36.173	50.000	ug/L	72.3		30 - 130		
Phenol	B080801-BS1	LCS	16.992	50.000	ug/L	34.0		20 - 110		
2,4,6-Trichlorophenol	B080801-BS1	LCS	42.096	50.000	ug/L	84.2		54 - 120		
Pyridine	B080801-BS1	LCS	20.870	50.000	ug/L	41.7		1 - 110		
2-Fluorophenol (Surrogate)	B080801-BS1	LCS	20.582	40.000	ug/L	51.5		30 - 120		
Phenol-d5 (Surrogate)	B080801-BS1	LCS	13.958	40.000	ug/L	34.9		12 - 110		
Nitrobenzene-d5 (Surrogate)	B080801-BS1	LCS	36.806	40.000	ug/L	92.0		50 - 130		
2-Fluorobiphenyl (Surrogate)	B080801-BS1	LCS	34.253	40.000	ug/L	85.6		55 - 125		
2,4,6-Tribromophenol (Surrogate)	B080801-BS1	LCS	44.045	40.000	ug/L	110		40 - 150		
p-Terphenyl-d14 (Surrogate)	B080801-BS1	LCS	16.550	20.000	ug/L	82.8		40 - 150		

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Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes QC Batch ID: B080801 and Used client sample: N.

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Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: B080801		Used client sample: N								
Pyridine	MS	2016224-81	ND	ND	50.000	ug/L		0	1 - 110	Q03
	MSD	2016224-81	ND	17.856	50.000	ug/L	200	35.7	30 1 - 110	
2-Fluorophenol (Surrogate)	MS	2016224-81	ND	23.836	40.000	ug/L		59.6	30 - 120	
	MSD	2016224-81	ND	24.216	40.000	ug/L	1.6	60.5	30 - 120	
Phenol-d5 (Surrogate)	MS	2016224-81	ND	14.392	40.000	ug/L		36.0	12 - 110	
	MSD	2016224-81	ND	14.063	40.000	ug/L	2.3	35.2	12 - 110	
Nitrobenzene-d5 (Surrogate)	MS	2016224-81	ND	38.057	40.000	ug/L		95.1	50 - 130	
	MSD	2016224-81	ND	38.181	40.000	ug/L	0.3	95.5	50 - 130	
2-Fluorobiphenyl (Surrogate)	MS	2016224-81	ND	34.998	40.000	ug/L		87.5	55 - 125	
	MSD	2016224-81	ND	35.623	40.000	ug/L	1.8	89.1	55 - 125	
2,4,6-Tribromophenol (Surrogate)	MS	2016224-81	ND	52.421	40.000	ug/L		131	40 - 150	
	MSD	2016224-81	ND	50.392	40.000	ug/L	3.9	126	40 - 150	
p-Terphenyl-d14 (Surrogate)	MS	2016224-81	ND	20.786	20.000	ug/L		104	40 - 150	
	MSD	2016224-81	ND	19.208	20.000	ug/L	7.9	96.0	40 - 150	

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

Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080801						
1-Acetyl-2-thiourea	B080801-BLK1	0	ug/L			
2-Aminoanthraquinone	B080801-BLK1	0	ug/L			
3-Amino-9-ethylcarbazole	B080801-BLK1	0	ug/L			
Anilazine	B080801-BLK1	0	ug/L			
o-Anisidine	B080801-BLK1	0	ug/L			
Azinphos methyl	B080801-BLK1	0	ug/L			
Barban	B080801-BLK1	0	ug/L			
p-Benzoquinone	B080801-BLK1	0	ug/L			
Bromoxynil	B080801-BLK1	0	ug/L			
Captafol	B080801-BLK1	0	ug/L			
Captan	B080801-BLK1	0	ug/L			
Carbaryl	B080801-BLK1	0	ug/L			
Carbofuran	B080801-BLK1	0	ug/L			
Carbophenothion	B080801-BLK1	0	ug/L			
Chlorfenvinphos	B080801-BLK1	0	ug/L			
5-Chloro-2-methylaniline	B080801-BLK1	0	ug/L			
3-(Chloromethyl) pyridine hydrochloride	B080801-BLK1	0	ug/L			
4-Chloro-1,2-phenylenediamine	B080801-BLK1	0	ug/L			
4-Chloro-1,3-phenylenediamine	B080801-BLK1	0	ug/L			
Coumaphos	B080801-BLK1	0	ug/L			
p-Cresidine	B080801-BLK1	0	ug/L			
Crotoxyphos	B080801-BLK1	0	ug/L			
2-Cyclohexyl-4,6-dinitrophenol	B080801-BLK1	0	ug/L			
Demeton-O	B080801-BLK1	0	ug/L			
Demeton-S	B080801-BLK1	0	ug/L			
2,4-Diaminotoluene	B080801-BLK1	0	ug/L			
Dibenz[a,j]acridine	B080801-BLK1	0	ug/L			
Dibenzo[a,e]pyrene	B080801-BLK1	0	ug/L			
1,2-Dibromo-3-chloropropane	B080801-BLK1	0	ug/L			
Dichlone	B080801-BLK1	0	ug/L			
Dichlorvos	B080801-BLK1	0	ug/L			
Dicrotophos	B080801-BLK1	0	ug/L			
Diethylstilbestrol	B080801-BLK1	0	ug/L			
Diethyl sulfate	B080801-BLK1	0	ug/L			

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080801						
Dihydro safrole	B080801-BLK1	0	ug/L			
3,3'-Dimethoxybenzidine	B080801-BLK1	0	ug/L			
1,2-Dinitrobenzene	B080801-BLK1	0	ug/L			
1,4-Dinitrobenzene	B080801-BLK1	0	ug/L			
Dinocap	B080801-BLK1	0	ug/L			
Dioxathion	B080801-BLK1	0	ug/L			
5,5-Diphenylhydantoin	B080801-BLK1	0	ug/L			
Endrin ketone	B080801-BLK1	0	ug/L			
EPN	B080801-BLK1	0	ug/L			
Ethion	B080801-BLK1	0	ug/L			
Ethyl carbamate	B080801-BLK1	0	ug/L			
Fensulfothion	B080801-BLK1	0	ug/L			
Fenthion	B080801-BLK1	0	ug/L			
Fluchloralin	B080801-BLK1	0	ug/L			
Hexamethylphosphoramide	B080801-BLK1	0	ug/L			
Hydroquinone	B080801-BLK1	0	ug/L			
Leptophos	B080801-BLK1	0	ug/L			
Malathion	B080801-BLK1	0	ug/L			
Maleic Anhydride	B080801-BLK1	0	ug/L			
Mestranol	B080801-BLK1	0	ug/L			
4,4'-Methylenebis(2-chloroaniline)	B080801-BLK1	0	ug/L			
4,4'-Methylenebis[N,N-dimethylaniline]	B080801-BLK1	0	ug/L			
Mevinphos	B080801-BLK1	0	ug/L			
Mexacarbate	B080801-BLK1	0	ug/L			
Mirex	B080801-BLK1	0	ug/L			
Monocrotophos	B080801-BLK1	0	ug/L			
Naled	B080801-BLK1	0	ug/L			
Nicotine	B080801-BLK1	0	ug/L			
5-Nitroacenaphthene	B080801-BLK1	0	ug/L			
5-Nitro-o-anisidine	B080801-BLK1	0	ug/L			
4-Nitrobiphenyl	B080801-BLK1	0	ug/L			
Nitrophen	B080801-BLK1	0	ug/L			
Octamethylpyrophosphoramide	B080801-BLK1	0	ug/L			
4,4'-Oxydianiline	B080801-BLK1	0	ug/L			

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

Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080801						
Phenobarbital	B080801-BLK1	0	ug/L			
Phosalone	B080801-BLK1	0	ug/L			
Phosmet	B080801-BLK1	0	ug/L			
Phosphamidon	B080801-BLK1	0	ug/L			
Phthalic anhydride	B080801-BLK1	0	ug/L			
Piperonyl sulfoxide	B080801-BLK1	0	ug/L			
Propylthiouracil	B080801-BLK1	0	ug/L			
Resorcinol	B080801-BLK1	0	ug/L			
Strychnine	B080801-BLK1	0	ug/L			
Sulfalate	B080801-BLK1	0	ug/L			
Terbufos	B080801-BLK1	0	ug/L			
Tetrachlorvinphos	B080801-BLK1	0	ug/L			
TEPP	B080801-BLK1	0	ug/L			
Thiophenol (Benzenethiol)	B080801-BLK1	0	ug/L			
Toluene 2,4-diisocyanate	B080801-BLK1	0	ug/L			
Trifluralin	B080801-BLK1	0	ug/L			
2,4,5-Trimethylaniline	B080801-BLK1	0	ug/L			
Trimethyl phosphate	B080801-BLK1	0	ug/L			
Tris(2,3-dibromopropyl) phosphate	B080801-BLK1	0	ug/L			
Tri-p-tolyl phosphate	B080801-BLK1	0	ug/L			

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Powell, OH 43065

Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

1,4-Dioxane (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080893						
1,4-Dioxane	B080893-BLK1	ND	ug/L	1.0	0.16	
Naphthalene-d8 (Surrogate)	B080893-BLK1	81.5	%	70 - 130 (LCL - UCL)		

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

1,4-Dioxane (EPA Method 8270C)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B080893										
1,4-Dioxane	B080893-BS1	LCS	37.549	50.000	ug/L	75.1		70 - 130		
Naphthalene-d8 (Surrogate)	B080893-BS1	LCS	7.5951	8.0000	ug/L	94.9		70 - 130		

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

1,4-Dioxane (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: B080893		Used client sample: N								
1,4-Dioxane	MS	2016224-81	ND	39.327	50.000	ug/L		78.7		70 - 130
	MSD	2016224-81	ND	39.254	50.000	ug/L	0.2	78.5	30	70 - 130
Naphthalene-d8 (Surrogate)	MS	2016224-81	ND	7.7714	8.0000	ug/L		97.1		70 - 130
	MSD	2016224-81	ND	8.5975	8.0000	ug/L	10.1	107		70 - 130

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B067961						
Bicarbonate	B067961-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B067961-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B067961-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: B080262						
Chloride	B080262-BLK1	ND	mg/L	0.50	0.13	
Nitrate as N	B080262-BLK1	ND	mg/L	0.10	0.024	
Sulfate	B080262-BLK1	ND	mg/L	1.0	0.14	
QC Batch ID: B080326						
Nitrite as N	B080326-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: B080364						
Total Dissolved Solids @ 180 C	B080364-BLK1	ND	mg/L	6.7	3.3	
QC Batch ID: B080479						
Total Recoverable Calcium	B080479-BLK1	ND	mg/L	0.10	0.014	
Total Recoverable Magnesium	B080479-BLK1	ND	mg/L	0.050	0.019	
Total Recoverable Sodium	B080479-BLK1	ND	mg/L	0.50	0.051	
Total Recoverable Potassium	B080479-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: B080716						
Perchlorate	B080716-BLK1	ND	ug/L	4.0	0.81	

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Powell, OH 43065

Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits		Lab
							RPD	Percent Recovery	
QC Batch ID: B067961									
Total Alkalinity as CaCO3	B067961-BS3	LCS	101.32	100.00	mg/L	101		90 - 110	
pH	B067961-BS2	LCS	7.0000	7.0000	pH Units	100		95 - 105	
QC Batch ID: B080262									
Chloride	B080262-BS1	LCS	51.414	50.000	mg/L	103		90 - 110	
Nitrate as N	B080262-BS1	LCS	5.0350	5.0000	mg/L	101		90 - 110	
Sulfate	B080262-BS1	LCS	101.83	100.00	mg/L	102		90 - 110	
QC Batch ID: B080326									
Nitrite as N	B080326-BS1	LCS	0.50307	0.50000	mg/L	101		90 - 110	
QC Batch ID: B080364									
Total Dissolved Solids @ 180 C	B080364-BS1	LCS	595.00	586.00	mg/L	102		90 - 110	
QC Batch ID: B080479									
Total Recoverable Calcium	B080479-BS1	LCS	9.9073	10.000	mg/L	99.1		85 - 115	
Total Recoverable Magnesium	B080479-BS1	LCS	10.118	10.000	mg/L	101		85 - 115	
Total Recoverable Sodium	B080479-BS1	LCS	10.083	10.000	mg/L	101		85 - 115	
Total Recoverable Potassium	B080479-BS1	LCS	9.6925	10.000	mg/L	96.9		85 - 115	
QC Batch ID: B080716									
Perchlorate	B080716-BS1	LCS	9.8132	10.000	ug/L	98.1		85 - 115	

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quails. Includes QC Batch IDs B067961, B080262, B080326, B080364, B080479, and B080716.

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: B080716		Used client sample: N								
Perchlorate	DUP	2017454-05	0.88390	0.90650		ug/L	2.5		15	J
	MS	2017454-05	0.88390	10.563	10.101	ug/L		95.8	80 - 120	
	MSD	2017454-05	0.88390	10.602	10.101	ug/L	0.4	96.2	15 80 - 120	

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080390						
Total Recoverable Arsenic	B080390-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B080390-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B080390-BLK1	ND	ug/L	1.0	0.10	
QC Batch ID: B080392						
Total Recoverable Arsenic	B080392-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B080392-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B080392-BLK1	ND	ug/L	1.0	0.10	
QC Batch ID: B080434						
Hexavalent Chromium	B080434-BLK1	ND	mg/L	0.00020	0.000032	
QC Batch ID: B080479						
Total Recoverable Iron	B080479-BLK1	ND	ug/L	50	30	

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Powell, OH 43065

Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B080390										
Total Recoverable Arsenic	B080390-BS1	LCS	107.23	100.00	ug/L	107		85 - 115		
Total Recoverable Chromium	B080390-BS1	LCS	42.962	40.000	ug/L	107		85 - 115		
Total Recoverable Lead	B080390-BS1	LCS	108.20	100.00	ug/L	108		85 - 115		
QC Batch ID: B080392										
Total Recoverable Arsenic	B080392-BS1	LCS	100.49	100.00	ug/L	100		85 - 115		
Total Recoverable Chromium	B080392-BS1	LCS	40.842	40.000	ug/L	102		85 - 115		
Total Recoverable Lead	B080392-BS1	LCS	108.62	100.00	ug/L	109		85 - 115		
QC Batch ID: B080434										
Hexavalent Chromium	B080434-BS1	LCS	0.019217	0.020000	mg/L	96.1		90 - 110		
QC Batch ID: B080479										
Total Recoverable Iron	B080479-BS1	LCS	1051.9	1000.0	ug/L	105		85 - 115		

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Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B080390		Used client sample: N								
Total Recoverable Arsenic	DUP	2017285-01	167.00	173.37		ug/L	3.7		20	
	MS	2017285-01	167.00	267.78	100.00	ug/L		101		70 - 130
	MSD	2017285-01	167.00	274.69	100.00	ug/L	2.5	108	20	70 - 130
Total Recoverable Chromium	DUP	2017285-01	ND	ND		ug/L			20	
	MS	2017285-01	ND	39.616	40.000	ug/L		99.0		70 - 130
	MSD	2017285-01	ND	39.048	40.000	ug/L	1.4	97.6	20	70 - 130
Total Recoverable Lead	DUP	2017285-01	ND	ND		ug/L			20	
	MS	2017285-01	ND	99.516	100.00	ug/L		99.5		70 - 130
	MSD	2017285-01	ND	102.04	100.00	ug/L	2.5	102	20	70 - 130
QC Batch ID: B080392		Used client sample: N								
Total Recoverable Arsenic	DUP	2017045-01	14.719	14.206		ug/L	3.5		20	
	MS	2017045-01	14.719	116.67	100.00	ug/L		102		70 - 130
	MSD	2017045-01	14.719	113.36	100.00	ug/L	2.9	98.6	20	70 - 130
Total Recoverable Chromium	DUP	2017045-01	ND	ND		ug/L			20	
	MS	2017045-01	ND	36.815	40.000	ug/L		92.0		70 - 130
	MSD	2017045-01	ND	36.215	40.000	ug/L	1.6	90.5	20	70 - 130
Total Recoverable Lead	DUP	2017045-01	0.14500	0.19900		ug/L	31.4		20	J,A02
	MS	2017045-01	0.14500	96.187	100.00	ug/L		96.0		70 - 130
	MSD	2017045-01	0.14500	93.411	100.00	ug/L	2.9	93.3	20	70 - 130
QC Batch ID: B080434		Used client sample: Y - Description: MW-17-4, 06/15/2020 14:00								
Hexavalent Chromium	DUP	2017309-03	0.00058700	0.00061900		mg/L	5.3		10	
	MS	2017309-03	0.00058700	0.020064	0.020202	mg/L		96.4		90 - 110
	MSD	2017309-03	0.00058700	0.019870	0.020202	mg/L	1.0	95.4	10	90 - 110
QC Batch ID: B080479		Used client sample: N								
Total Recoverable Iron	DUP	2017303-05	368.93	365.83		ug/L	0.8		20	
	MS	2017303-05	368.93	1403.8	1000.0	ug/L		103		75 - 125
	MSD	2017303-05	368.93	1443.0	1000.0	ug/L	2.8	107	20	75 - 125

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Certificate of Analysis FINAL REPORT

Work Orders: OF18009

Project: 2017309

Attn: Natalie Serda

Client: BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308

Report Date: 6/24/2020

Received Date: 6/18/2020

Turnaround Time: Normal

Phones: (661) 327-4911

Fax: (661) 327-1918

P.O. #:

Billing Code:

Dear Natalie Serda,

Enclosed are the results of analyses for samples received 6/18/20 with the Chain-of-Custody document. The samples were received in good condition, at 2.4 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Sample Results

Sample: 2017309-03 Sampled: 06/15/20 14:00 by Client
OF18009-01 (Water)

Table with 8 columns: Analyte, Result, MRL, Units, Dil, Analyzed, Qualifier. Row 1: N-Nitrosodimethylamine, ND, 2.0, ng/l, 1, 06/22/20

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WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Quality Control Results

Nitrosamines by isotopic dilution GC/MS CI Mode

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	REC Limits	RPD	RPD Limit	Qualifier
Batch: W0F1309 - EPA 3535/SPE										
Blank (W0F1309-BLK1)				Prepared & Analyzed: 06/22/20						
N-Nitrosodimethylamine	ND	2.0	ng/l							
LCS (W0F1309-BS1)				Prepared & Analyzed: 06/22/20						
N-Nitrosodimethylamine	2.05	2.0	ng/l	2.00		102	50-150			
Matrix Spike (W0F1309-MS1)				Prepared & Analyzed: 06/22/20						
N-Nitrosodimethylamine	2.05	2.0	ng/l	2.00	ND	102	50-150			
Matrix Spike Dup (W0F1309-MSD1)				Prepared & Analyzed: 06/22/20						
N-Nitrosodimethylamine	1.98	2.0	ng/l	2.00	ND	98	50-150	5	50	

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WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Notes and Definitions

Item	Definition
%REC	Percent Recovery
DI	Dilution
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference
Source	Sample that was matrix spiked or duplicated.

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

Reviewed by:

Regina M. Giancola
Project Manager



ELAP-CA #1132 • EPA-UCMR #CA00211 • HW-DOH # • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047 •
NJ-DEP #CA015 • NV-DEP #NAC 445A • SCAQMD #93LA1006

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.

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

Reported: 07/01/2020 11:50
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A02 The difference between duplicate readings is less than the quantitation limit.
- A03 The sample concentration was more than 4 times the spike level.
- A07 Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
- Q03 Matrix spike recovery(s) was(were) 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: 06/30/2020

David Conner

Tidewater Inc. - Powell

3761 Attucks Drive

Powell, OH 43065

Client Project: 2Q20

BCL Project: JPL- GW Monitoring Wells

BCL Work Order: 2017454

Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 6/16/2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda

Client Service Rep

Stuart Buttram

Technical Director

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

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Chain of Custody Form



Required Fields

Report To: Tidewater, Inc.
 Client: David Conner
 Street Address: 3761 Attucks Drive
 City: Powell State: OH Zip: 43065
 Phone: 626 | 298 - 5715 Fax: 614 | 792 - 2897
 Email Address: david.conner@tidel2b.net
 Submission #: _____

Project Description: JPL-GW Monitoring
 Project Code: 2020
 Sampler (s): Blaine Tech

Analysis Requested

Sample #	Sample Description	Date	Time	Matrix*
-1	TB-6-061620	6/16/20	0800	L
-2	MU-20-5	10/45	1000	L
-3	MU-20-4	1050	1050	L
-4	MU-20-3	1145	1145	L
-5	MU-20-2			L
-6	MU-20-1			L
-7	EB-6-061620	1545	1530	L
-8	MU-24-4			L
-9	MU-24-3			L
-10				L

Notes: level IV r MMSMSD

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 (infirm QC)

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

Global ID: _____
 1. Received By: [Signature] Date: 6-16-20 Time: 1650
 2. Relinquished By: [Signature] Date: 6-16-20 Time: 1900
 3. Received By: [Signature] Date: 6-16-20 Time: 1900

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

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 of 1

Submission #: _____

*** SHIPPING INFORMATION**
 Fed Ex UPS Ontrac Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO
 W / S _____

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

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

COC Received YES NO
 Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time: 6/16/2015
 Temperature: (A) 1.0 °C / (C) 0.8 °C Analyst Init: GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES		D	D	D	K	D	D	D		
4oz / 8oz / 16oz PE UNPRES		E	E	E	L	F	E	E		
2oz Cr ⁴		F	F	F	MN	F	F	F		
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz		G	G	G	NO	G	G	G		
PT CYANIDE					6/16					
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PlA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A									
40ml VOA VIAL		ABC	ABC	ABC	A→E	ABC	ABC	ABC		
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 505/509/5080										
QT EPA 515.1A150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

16.9

SHORT HOLDING TIME
 (CFC) (NO₂) (NO_x) (OP) (SS)
 DO C₂ BOD MBAS COT

DISTRIBUTION
 MAINTENANCE
 SUB-OFF

CHK BY: [Signature]

Comments: _____
 Sample Numbering Completed By: [Signature] Date/Time: 6/16 2015
 A = Actual / C = Corrected



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

Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2017454-01	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: TB-6-061620 Sampled By: Blaine Tech of BTST	Receive Date: 06/16/2020 19:00 Sampling Date: 06/16/2020 08:00 Sample Depth: --- Lab Matrix: Water Sample Type: Trip Blank Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-6-061620 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

2017454-02	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-20-5 Sampled By: Blaine Tech of BTST	Receive Date: 06/16/2020 19:00 Sampling Date: 06/16/2020 08:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-20-5 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

2017454-03	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-20-4 Sampled By: Blaine Tech of BTST	Receive Date: 06/16/2020 19:00 Sampling Date: 06/16/2020 10:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-20-4 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

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

Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2017454-04	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-20-3 Sampled By: Blaine Tech of BTST	Receive Date: 06/16/2020 19:00 Sampling Date: 06/16/2020 10:50 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-20-3 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

2017454-05	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-20-2 Sampled By: Blaine Tech of BTST	Receive Date: 06/16/2020 19:00 Sampling Date: 06/16/2020 11:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-20-2 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

2017454-06	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: EB-6-061620 Sampled By: Blaine Tech of BTST	Receive Date: 06/16/2020 19:00 Sampling Date: 06/16/2020 15:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-6-061620 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

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

Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2017454-07	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-24-4 Sampled By: Blaine Tech of BTST	Receive Date: 06/16/2020 19:00 Sampling Date: 06/16/2020 15:30 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:
-------------------	---	---

2017454-08	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-24-3 Sampled By: Blaine Tech of BTST	Receive Date: 06/16/2020 19:00 Sampling Date: 06/16/2020 16:00 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: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017454-01	Client Sample Name: JPL, TB-6-061620, 6/16/2020 8:00:00AM, Blaine Tech
----------------------------------	---

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

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

Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017454-01	Client Sample Name: JPL, TB-6-061620, 6/16/2020 8:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
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	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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

Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017454-01	Client Sample Name: JPL, TB-6-061620, 6/16/2020 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/19/20 06:00	06/19/20 10:03	MGC	MS-V5	1	B080515	EPA 524.2

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

Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017454-01	Client Sample Name: JPL, TB-6-061620, 6/16/2020 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/19/20 06:00	06/19/20	10:03	MGC	MS-V5	1	B080515	EPA 524.2

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Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017454-02	Client Sample Name: JPL, MW-20-5, 6/16/2020 8:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017454-02		Client Sample Name: JPL, MW-20-5, 6/16/2020 8:45:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	0.16	ug/L	0.50	0.12	EPA-524.2	ND	J	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	0.76	ug/L	1.0	0.48	EPA-524.2	ND	J	1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017454-02	Client Sample Name: JPL, MW-20-5, 6/16/2020 8:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/19/20 06:00	06/19/20 10:27	MGC	MS-V5	1	B080515	EPA 524.2

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Powell, OH 43065

Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017454-02	Client Sample Name: JPL, MW-20-5, 6/16/2020 8:45:00AM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/19/20 06:00	06/19/20	10:27	MGC	MS-V5	1	B080515	EPA 524.2

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Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017454-02	Client Sample Name: JPL, MW-20-5, 6/16/2020 8:45:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000089	mg/L	0.00020	0.000032	EPA-218.6	ND	J	1
Total Recoverable Arsenic	1.0	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	240	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/17/20 11:00	06/17/20	11:54	SAV	IC-4	1	B080433	No Prep
2	EPA-200.8	06/19/20 08:15	06/19/20	14:12	AS1	PE-EL2	1	B080632	EPA 200.2
3	EPA-200.7	06/18/20 09:15	06/18/20	15:43	JRG	PE-OP4	1	B080480	EPA 200.2

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Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2017454-03) and Client Sample Name (JPL, MW-20-4, 6/16/2020 10:00:00AM, Blaine Tech)

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

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Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2017454-03) and Client Sample Name (JPL, MW-20-4, 6/16/2020 10:00:00AM, Blaine Tech)

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

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Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017454-03	Client Sample Name: JPL, MW-20-4, 6/16/2020 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	114	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/19/20 06:00	06/19/20 10:51	MGC	MS-V5	1	B080515	EPA 524.2

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Powell, OH 43065

Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017454-03	Client Sample Name: JPL, MW-20-4, 6/16/2020 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/19/20 06:00	06/19/20	10:51	MGC	MS-V5	1	B080515	EPA 524.2

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

Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows 1-7 corresponding to the main analysis table.

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Powell, OH 43065

Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017454-03	Client Sample Name: JPL, MW-20-4, 6/16/2020 10:00:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00012	mg/L	0.00020	0.000032	EPA-218.6	ND	J	1
Total Recoverable Arsenic	0.75	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	160	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/17/20 11:00	06/17/20 12:04		SAV	IC-4	1	B080433	No Prep
2	EPA-200.8	06/19/20 08:15	06/19/20 14:13		AS1	PE-EL2	1	B080632	EPA 200.2
3	EPA-200.7	06/18/20 09:15	06/18/20 15:49		JRG	PE-OP4	1	B080480	EPA 200.2

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

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Powell, OH 43065

Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017454-04	Client Sample Name: JPL, MW-20-3, 6/16/2020 10:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2017454-04) and Client Sample Name (JPL, MW-20-3, 6/16/2020 10:50:00AM, Blaine Tech)

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

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

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Powell, OH 43065

Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017454-04	Client Sample Name: JPL, MW-20-3, 6/16/2020 10:50:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	112	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/19/20 06:00	06/19/20 11:15	MGC	MS-V5	1	B080515	EPA 524.2

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Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017454-04	Client Sample Name: JPL, MW-20-3, 6/16/2020 10:50:00AM, Blaine Tech
----------------------------------	--

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/19/20 06:00	06/19/20	11:15	MGC	MS-V5	1	B080515	EPA 524.2

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Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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

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Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017454-04	Client Sample Name: JPL, MW-20-3, 6/16/2020 10:50:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00014	mg/L	0.00020	0.000032	EPA-218.6	ND	J	1
Total Recoverable Arsenic	1.5	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	150	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/17/20 11:00	06/17/20 12:13		SAV	IC-4	1	B080433	No Prep
2	EPA-200.8	06/19/20 08:15	06/19/20 14:15		AS1	PE-EL2	1	B080632	EPA 200.2
3	EPA-200.7	06/18/20 09:15	06/18/20 15:51		JRG	PE-OP4	1	B080480	EPA 200.2

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Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017454-05	Client Sample Name: JPL, MW-20-2, 6/16/2020 11:45:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.81	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quads, Run #. Lists various chemical constituents and their analysis results.

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Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017454-05	Client Sample Name: JPL, MW-20-2, 6/16/2020 11:45:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/19/20 06:00	06/19/20 07:15	MGC	MS-V5	1	B080515	EPA 524.2

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Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017454-05	Client Sample Name: JPL, MW-20-2, 6/16/2020 11:45:00AM, Blaine Tech
----------------------------------	--

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/19/20 06:00	06/19/20 07:15		MGC	MS-V5	1	B080515	EPA 524.2

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Powell, OH 43065

Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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Powell, OH 43065

Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017454-05	Client Sample Name: JPL, MW-20-2, 6/16/2020 11:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000052	mg/L	0.00020	0.000032	EPA-218.6	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	65	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/17/20 11:00	06/17/20 12:23		SAV	IC-4	1	B080433	No Prep
2	EPA-200.8	06/19/20 08:15	06/19/20 13:55		AS1	PE-EL2	1	B080632	EPA 200.2
3	EPA-200.7	06/18/20 09:15	06/18/20 15:30		JRG	PE-OP4	1	B080480	EPA 200.2

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

Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2017454-06) and Client Sample Name (JPL, EB-6-061620, 6/16/2020 3:45:00PM, Blaine Tech)

Main data table with columns: Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quads, Run #. Lists various VOCs like Benzene, Bromobenzene, etc.

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Powell, OH 43065

Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2017454-06) and Client Sample Name (JPL, EB-6-061620, 6/16/2020 3:45:00PM, Blaine Tech)

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

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Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017454-06	Client Sample Name: JPL, EB-6-061620, 6/16/2020 3:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	19	ug/L	20	5.2	EPA-524.2	ND	J	1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	110	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/19/20 06:00	06/19/20 11:39	MGC	MS-V5	1	B080515	EPA 524.2

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Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017454-06	Client Sample Name: JPL, EB-6-061620, 6/16/2020 3:45:00PM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/19/20 06:00	06/19/20	11:39	MGC	MS-V5	1	B080515	EPA 524.2

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Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017454-06	Client Sample Name: JPL, EB-6-061620, 6/16/2020 3:45:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000037	mg/L	0.00020	0.000032	EPA-218.6	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/17/20 11:00	06/17/20	13:01	SAV	IC-4	1	B080433	No Prep
2	EPA-200.8	06/19/20 08:15	06/19/20	14:17	AS1	PE-EL2	1	B080632	EPA 200.2
3	EPA-200.7	06/18/20 09:15	06/18/20	15:53	JRG	PE-OP4	1	B080480	EPA 200.2

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Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017454-07	Client Sample Name: JPL, MW-24-4, 6/16/2020 3:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017454-07		Client Sample Name: JPL, MW-24-4, 6/16/2020 3:30:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	0.15	ug/L	0.50	0.12	EPA-524.2	ND	J	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	0.52	ug/L	1.0	0.48	EPA-524.2	ND	J	1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017454-07	Client Sample Name: JPL, MW-24-4, 6/16/2020 3:30:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	9.8	ug/L	20	5.2	EPA-524.2	ND	J	1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	109	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/19/20 06:00	06/19/20 12:03	MGC	MS-V5	1	B080515	EPA 524.2

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Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017454-07	Client Sample Name: JPL, MW-24-4, 6/16/2020 3:30:00PM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/19/20 06:00	06/19/20	12:03	MGC	MS-V5	1	B080515	EPA 524.2

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Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

Table with 10 columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows 1-7 detailing analysis parameters for each run.

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Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017454-07	Client Sample Name: JPL, MW-24-4, 6/16/2020 3:30:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000063	mg/L	0.00020	0.000032	EPA-218.6	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	0.94	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	240	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	0.10	ug/L	1.0	0.10	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/17/20 11:00	06/17/20	13:30	SAV	IC-4	1	B080433	No Prep
2	EPA-200.8	06/19/20 08:15	06/19/20	14:19	AS1	PE-EL2	1	B080632	EPA 200.2
3	EPA-200.7	06/18/20 09:15	06/18/20	15:55	JRG	PE-OP4	1	B080480	EPA 200.2

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Powell, OH 43065

Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017454-08	Client Sample Name: JPL, MW-24-3, 6/16/2020 4:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	0.20	ug/L	0.50	0.15	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017454-08	Client Sample Name: JPL, MW-24-3, 6/16/2020 4:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017454-08	Client Sample Name: JPL, MW-24-3, 6/16/2020 4:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	109	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/19/20 06:00	06/19/20 12:27	MGC	MS-V5	1	B080515	EPA 524.2

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Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017454-08	Client Sample Name: JPL, MW-24-3, 6/16/2020 4:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/19/20 06:00	06/19/20	12:27	MGC	MS-V5	1	B080515	EPA 524.2

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Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017454-08	Client Sample Name: JPL, MW-24-3, 6/16/2020 4:00:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000041	mg/L	0.00020	0.000032	EPA-218.6	ND	J	1
Total Recoverable Arsenic	1.3	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	150	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/17/20 11:00	06/17/20 13:40		SAV	IC-4	1	B080433	No Prep
2	EPA-200.8	06/19/20 08:15	06/19/20 14:20		AS1	PE-EL2	1	B080632	EPA 200.2
3	EPA-200.7	06/22/20 10:00	06/22/20 15:40		JRG	PE-OP4	1	B080742	EPA 200.2

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Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080515						
Benzene	B080515-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B080515-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B080515-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B080515-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B080515-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B080515-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B080515-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B080515-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B080515-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B080515-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B080515-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B080515-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B080515-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B080515-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B080515-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B080515-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B080515-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B080515-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B080515-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B080515-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B080515-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B080515-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B080515-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B080515-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B080515-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B080515-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B080515-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B080515-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B080515-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B080515-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B080515-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B080515-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B080515-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B080515-BLK1	ND	ug/L	0.50	0.14	

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Powell, OH 43065

Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080515						
trans-1,3-Dichloropropene	B080515-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B080515-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B080515-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B080515-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B080515-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B080515-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B080515-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B080515-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B080515-BLK1	ND	ug/L	0.50	0.12	
Styrene	B080515-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B080515-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2,2-Tetrachloroethane	B080515-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B080515-BLK1	ND	ug/L	0.50	0.23	
Toluene	B080515-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B080515-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B080515-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B080515-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B080515-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B080515-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B080515-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B080515-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B080515-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B080515-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B080515-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B080515-BLK1	ND	ug/L	0.50	0.18	
Acetone	B080515-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B080515-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B080515-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B080515-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B080515-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	B080515-BLK1	ND	ug/L	1.0	0.48	
trans-1,4-Dichloro-2-butene	B080515-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B080515-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B080515-BLK1	ND	ug/L	4.0	1.3	

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Powell, OH 43065

Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080515						
Ethyl t-butyl ether	B080515-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B080515-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B080515-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B080515-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B080515-BLK1	ND	ug/L	10	3.3	
Methyl iodide	B080515-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B080515-BLK1	ND	ug/L	10	2.4	
Methyl methacrylate	B080515-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B080515-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B080515-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B080515-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B080515-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B080515-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B080515-BLK1	102	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B080515-BLK1	95.7	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B080515-BLK1	97.7	%	80 - 120 (LCL - UCL)		

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

Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B080515										
Benzene	B080515-BS1	LCS	25.710	25.000	ug/L	103		70 - 130		
Bromodichloromethane	B080515-BS1	LCS	27.240	25.000	ug/L	109		70 - 130		
Chlorobenzene	B080515-BS1	LCS	23.780	25.000	ug/L	95.1		70 - 130		
Chloroethane	B080515-BS1	LCS	26.350	25.000	ug/L	105		70 - 130		
1,4-Dichlorobenzene	B080515-BS1	LCS	23.860	25.000	ug/L	95.4		70 - 130		
1,1-Dichloroethane	B080515-BS1	LCS	26.730	25.000	ug/L	107		70 - 130		
1,1-Dichloroethene	B080515-BS1	LCS	27.360	25.000	ug/L	109		70 - 130		
Toluene	B080515-BS1	LCS	24.670	25.000	ug/L	98.7		70 - 130		
Trichloroethene	B080515-BS1	LCS	25.640	25.000	ug/L	103		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B080515-BS1	LCS	10.950	10.000	ug/L	110		75 - 125		
Toluene-d8 (Surrogate)	B080515-BS1	LCS	9.9500	10.000	ug/L	99.5		80 - 120		
4-Bromofluorobenzene (Surrogate)	B080515-BS1	LCS	10.360	10.000	ug/L	104		80 - 120		

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Powell, OH 43065

Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B080515		Used client sample: Y - Description: MW-20-2, 06/16/2020 11:45								
Benzene	MS	2017454-05	ND	26.200	25.000	ug/L		105		70 - 130
	MSD	2017454-05	ND	25.890	25.000	ug/L	1.2	104	20	70 - 130
Bromodichloromethane	MS	2017454-05	ND	27.790	25.000	ug/L		111		70 - 130
	MSD	2017454-05	ND	27.920	25.000	ug/L	0.5	112	20	70 - 130
Chlorobenzene	MS	2017454-05	ND	23.790	25.000	ug/L		95.2		70 - 130
	MSD	2017454-05	ND	23.880	25.000	ug/L	0.4	95.5	20	70 - 130
Chloroethane	MS	2017454-05	ND	26.800	25.000	ug/L		107		70 - 130
	MSD	2017454-05	ND	26.550	25.000	ug/L	0.9	106	20	70 - 130
1,4-Dichlorobenzene	MS	2017454-05	ND	23.610	25.000	ug/L		94.4		70 - 130
	MSD	2017454-05	ND	24.220	25.000	ug/L	2.6	96.9	20	70 - 130
1,1-Dichloroethane	MS	2017454-05	ND	27.390	25.000	ug/L		110		70 - 130
	MSD	2017454-05	ND	27.180	25.000	ug/L	0.8	109	20	70 - 130
1,1-Dichloroethene	MS	2017454-05	ND	27.550	25.000	ug/L		110		70 - 130
	MSD	2017454-05	ND	27.370	25.000	ug/L	0.7	109	20	70 - 130
Toluene	MS	2017454-05	ND	24.820	25.000	ug/L		99.3		70 - 130
	MSD	2017454-05	ND	24.830	25.000	ug/L	0.0	99.3	20	70 - 130
Trichloroethene	MS	2017454-05	0.43000	26.720	25.000	ug/L		105		70 - 130
	MSD	2017454-05	0.43000	26.670	25.000	ug/L	0.2	105	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	2017454-05	ND	10.770	10.000	ug/L		108		75 - 125
	MSD	2017454-05	ND	10.670	10.000	ug/L	0.9	107		75 - 125
Toluene-d8 (Surrogate)	MS	2017454-05	ND	9.7600	10.000	ug/L		97.6		80 - 120
	MSD	2017454-05	ND	9.8800	10.000	ug/L	1.2	98.8		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	2017454-05	ND	10.070	10.000	ug/L		101		80 - 120
	MSD	2017454-05	ND	10.010	10.000	ug/L	0.6	100		80 - 120

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Powell, OH 43065

Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080515						
Chloroacetonitrile	B080515-BLK1	0	ug/L			
1-Chlorobutane	B080515-BLK1	0	ug/L			
1,1-Dichloropropanone	B080515-BLK1	0	ug/L			
Methyl acrylate	B080515-BLK1	0	ug/L			
Nitrobenzene	B080515-BLK1	0	ug/L			
2-Nitropropane	B080515-BLK1	0	ug/L			

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Powell, OH 43065

Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B067962						
Bicarbonate	B067962-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B067962-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B067962-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: B080371						
Chloride	B080371-BLK1	0.17600	mg/L	0.50	0.13	J
Nitrate as N	B080371-BLK1	ND	mg/L	0.10	0.024	
Sulfate	B080371-BLK1	ND	mg/L	1.0	0.14	
QC Batch ID: B080446						
Nitrite as N	B080446-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: B080480						
Total Recoverable Calcium	B080480-BLK1	ND	mg/L	0.10	0.014	
Total Recoverable Magnesium	B080480-BLK1	ND	mg/L	0.050	0.019	
Total Recoverable Sodium	B080480-BLK1	ND	mg/L	0.50	0.051	
Total Recoverable Potassium	B080480-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: B080493						
Total Dissolved Solids @ 180 C	B080493-BLK1	ND	mg/L	6.7	3.3	
QC Batch ID: B080716						
Perchlorate	B080716-BLK1	ND	ug/L	4.0	0.81	
QC Batch ID: B080742						
Total Recoverable Calcium	B080742-BLK1	ND	mg/L	0.10	0.014	
Total Recoverable Magnesium	B080742-BLK1	ND	mg/L	0.050	0.019	
Total Recoverable Sodium	B080742-BLK1	ND	mg/L	0.50	0.051	
Total Recoverable Potassium	B080742-BLK1	ND	mg/L	1.0	0.10	

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Powell, OH 43065

Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits		Lab
							RPD	Percent Recovery	
QC Batch ID: B067962									
Total Alkalinity as CaCO3	B067962-BS3	LCS	95.540	100.00	mg/L	95.5		90 - 110	
pH	B067962-BS2	LCS	7.0000	7.0000	pH Units	100		95 - 105	
QC Batch ID: B080371									
Chloride	B080371-BS1	LCS	51.636	50.000	mg/L	103		90 - 110	
Nitrate as N	B080371-BS1	LCS	5.1150	5.0000	mg/L	102		90 - 110	
Sulfate	B080371-BS1	LCS	104.02	100.00	mg/L	104		90 - 110	
QC Batch ID: B080446									
Nitrite as N	B080446-BS1	LCS	0.52800	0.50000	mg/L	106		90 - 110	
QC Batch ID: B080480									
Total Recoverable Calcium	B080480-BS1	LCS	10.198	10.000	mg/L	102		85 - 115	
Total Recoverable Magnesium	B080480-BS1	LCS	10.012	10.000	mg/L	100		85 - 115	
Total Recoverable Sodium	B080480-BS1	LCS	10.014	10.000	mg/L	100		85 - 115	
Total Recoverable Potassium	B080480-BS1	LCS	9.7132	10.000	mg/L	97.1		85 - 115	
QC Batch ID: B080493									
Total Dissolved Solids @ 180 C	B080493-BS1	LCS	595.00	586.00	mg/L	102		90 - 110	
QC Batch ID: B080716									
Perchlorate	B080716-BS1	LCS	9.8132	10.000	ug/L	98.1		85 - 115	
QC Batch ID: B080742									
Total Recoverable Calcium	B080742-BS1	LCS	10.344	10.000	mg/L	103		85 - 115	
Total Recoverable Magnesium	B080742-BS1	LCS	10.246	10.000	mg/L	102		85 - 115	
Total Recoverable Sodium	B080742-BS1	LCS	10.248	10.000	mg/L	102		85 - 115	
Total Recoverable Potassium	B080742-BS1	LCS	9.8050	10.000	mg/L	98.0		85 - 115	

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Powell, OH 43065

Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes QC Batch IDs: B067962, B080371, B080446, B080480, B080493, B080716.

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Powell, OH 43065

Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: B080716		Used client sample: Y - Description: MW-20-2, 06/16/2020 11:45								
Perchlorate	DUP	2017454-05	0.88390	0.90650		ug/L	2.5		15	J
	MS	2017454-05	0.88390	10.563	10.101	ug/L		95.8	80 - 120	
	MSD	2017454-05	0.88390	10.602	10.101	ug/L	0.4	96.2	15 80 - 120	
QC Batch ID: B080742		Used client sample: N								
Total Recoverable Calcium	DUP	2017361-02	91.656	94.178		mg/L	2.7		20	
	MS	2017361-02	91.656	104.97	10.000	mg/L		133	75 - 125	A03
	MSD	2017361-02	91.656	103.50	10.000	mg/L	1.4	118	20 75 - 125	
Total Recoverable Magnesium	DUP	2017361-02	36.508	37.512		mg/L	2.7		20	
	MS	2017361-02	36.508	47.492	10.000	mg/L		110	75 - 125	
	MSD	2017361-02	36.508	46.812	10.000	mg/L	1.4	103	20 75 - 125	
Total Recoverable Sodium	DUP	2017361-02	83.729	86.184		mg/L	2.9		20	
	MS	2017361-02	83.729	96.733	10.000	mg/L		130	75 - 125	A03
	MSD	2017361-02	83.729	95.765	10.000	mg/L	1.0	120	20 75 - 125	
Total Recoverable Potassium	DUP	2017361-02	5.2592	5.4248		mg/L	3.1		20	
	MS	2017361-02	5.2592	15.222	10.000	mg/L		99.6	75 - 125	
	MSD	2017361-02	5.2592	14.969	10.000	mg/L	1.7	97.1	20 75 - 125	

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Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080433						
Hexavalent Chromium	B080433-BLK1	ND	mg/L	0.00020	0.000032	
QC Batch ID: B080480						
Total Recoverable Iron	B080480-BLK1	ND	ug/L	50	30	
QC Batch ID: B080632						
Total Recoverable Arsenic	B080632-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B080632-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B080632-BLK1	ND	ug/L	1.0	0.10	
QC Batch ID: B080742						
Total Recoverable Iron	B080742-BLK1	ND	ug/L	50	30	

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Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B080433										
Hexavalent Chromium	B080433-BS1	LCS	0.019483	0.020000	mg/L	97.4		90 - 110		
QC Batch ID: B080480										
Total Recoverable Iron	B080480-BS1	LCS	1032.6	1000.0	ug/L	103		85 - 115		
QC Batch ID: B080632										
Total Recoverable Arsenic	B080632-BS1	LCS	107.55	100.00	ug/L	108		85 - 115		
Total Recoverable Chromium	B080632-BS1	LCS	42.453	40.000	ug/L	106		85 - 115		
Total Recoverable Lead	B080632-BS1	LCS	108.85	100.00	ug/L	109		85 - 115		
QC Batch ID: B080742										
Total Recoverable Iron	B080742-BS1	LCS	1057.9	1000.0	ug/L	106		85 - 115		

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Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: B080433		Used client sample: Y - Description: MW-20-2, 06/16/2020 11:45								
Hexavalent Chromium	DUP	2017454-05	0.000052000	0.000042000		mg/L	21.3		10	J,A02
	MS	2017454-05	0.000052000	0.019705	0.020202	mg/L		97.3	90 - 110	
	MSD	2017454-05	0.000052000	0.019736	0.020202	mg/L	0.2	97.4	10 90 - 110	
QC Batch ID: B080480		Used client sample: Y - Description: MW-20-2, 06/16/2020 11:45								
Total Recoverable Iron	DUP	2017454-05	64.900	69.028		ug/L	6.2		20	
	MS	2017454-05	64.900	1109.0	1000.0	ug/L		104	75 - 125	
	MSD	2017454-05	64.900	1105.2	1000.0	ug/L	0.3	104	20 75 - 125	
QC Batch ID: B080632		Used client sample: Y - Description: MW-20-2, 06/16/2020 11:45								
Total Recoverable Arsenic	DUP	2017454-05	ND	ND		ug/L			20	
	MS	2017454-05	ND	110.78	100.00	ug/L		111	70 - 130	
	MSD	2017454-05	ND	112.51	100.00	ug/L	1.5	113	20 70 - 130	
Total Recoverable Chromium	DUP	2017454-05	ND	ND		ug/L			20	
	MS	2017454-05	ND	39.095	40.000	ug/L		97.7	70 - 130	
	MSD	2017454-05	ND	39.201	40.000	ug/L	0.3	98.0	20 70 - 130	
Total Recoverable Lead	DUP	2017454-05	ND	ND		ug/L			20	
	MS	2017454-05	ND	102.79	100.00	ug/L		103	70 - 130	
	MSD	2017454-05	ND	103.43	100.00	ug/L	0.6	103	20 70 - 130	
QC Batch ID: B080742		Used client sample: N								
Total Recoverable Iron	DUP	2017361-02	139.73	143.74		ug/L	2.8		20	
	MS	2017361-02	139.73	1198.7	1000.0	ug/L		106	75 - 125	
	MSD	2017361-02	139.73	1177.3	1000.0	ug/L	1.8	104	20 75 - 125	

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3761 Attucks Drive
Powell, OH 43065

Reported: 06/30/2020 12:57
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Notes And Definitions

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

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Date of Report: 07/02/2020

David Conner

Tidewater Inc. - Powell

3761 Attucks Drive
Powell, OH 43065

Client Project: 2Q20
BCL Project: JPL- GW Monitoring Wells
BCL Work Order: 2017619
Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 6/17/2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda
Client Service Rep

Stuart Buttram
Technical Director

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

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Quality Control Reports

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Chain of Custody Form

Page 1 of 1

20-17619

Report To: Client: Tidewater, Inc.
 Client: David Conner
 Street Address: 3761 Alhucks Drive
 City: Powell State: OH Zip: 43065
 Phone: 626 1298 5715 Fax: 614 792 2897
 Email Address: david.conner@tideh2o.net
 Submission #: _____

Project Description: JPL-GW Monitoring
 Project Code: 2020
 Sampler (s): Blaine Tech

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

Sample #	Sample Description	Date	Time	Matrix*
-1	TB-7-061720	6/17/20	0800	L
-2	MU-22-S		0900	
-3	MU-22-4		1000	
-4	MU-22-3		1030	
-5	MU-22-2		1115	
-6	MU-22-1		1215	
-7	EB-7-061720		1500	
-8	MU-24-5		1630	
-9	MU-24-2		1530	
-10	MU-24-1		1400	

Analysis Requested	Matrix*
VOCS EPA 524.2	X
TRM: Cr, Pb, As, Ca, Mg, K,	X
Na, Fe	X
Hexavalent Cr -218.6 (mg/L)	X
Cl, NO3, NO2, SO4, Perch,	X
CO3, HCO3, Alk, TDS, pH	X
Orthophosphate 365.1	X
1,4 Dioxane 827051M	X
NDMA 1625M	X
PAHs, Phthalates, Phendis	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
 QC (MS/MSD)
 90% Level III and 10% Level IV data validation required; Level IV Notated on C of C
 NOTE: ALL ANALYSIS REQUIRED TO HAVE CALIBRATION SUMMARIES (inform QC)

Global ID:
 Cost Center:
 1. Relinquished By: [Signature] Date: 6/17/20 Time: 1650
 2. Relinquished By: [Signature] Date: 6/17/20 Time: 1700
 3. Relinquished By: [Signature] Date: 6/17/20 Time: 1910

BC Laboratories, Inc. 4100 Atlas Court - Bakersfield CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com
 DO Cl2 BOD MBAS COT
 SS
 SHEL HOLDING TIME
 CHK BY: [Signature] DISTRIBUTION: [Signature] SUB OUT: [Signature]

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 of 2

Submission #: 20-17619

SHIPPING INFORMATION: Fed Ex UPS Ontrac Hand Delivery BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER: Ice Chest None Box Other (Specify) _____

FREE LIQUID: YES NO W / S _____

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____

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

COC Received: YES NO Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time: 6/17/19 10:00
Temperature: (A) 20 °C / (C) 1.8 °C Analyst Init: GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS										
	1	2	3	4	5	6	7	8	9	10	
QT PE UNPRES							D	D	J	K	D
4oz / 8oz / 16oz PE UNPRES							E	E	L	L	E
2oz Cr ⁶⁺							F	F	M	N	G
QT INORGANIC CHEMICAL METALS											
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz							G	G	O	H	
PT CYANIDE											
PT NITROGEN FORMS 2oz PE											F
PT TOTAL SULFIDE											
2oz. NITRATE / NITRITE											
PT TOTAL ORGANIC CARBON											
PT CHEMICAL OXYGEN DEMAND											
PTa PHENOLICS											
40ml VOA VIAL TRAVEL BLANK	A	ABC	ABC	ABC	A to I	ABC	ABC	ABC	A to I	ABC	
40ml VOA VIAL											
QT EPA 1664											
PT ODOR											
RADIOLOGICAL											
BACTERIOLOGICAL											
40 ml VOA VIAL - 504											
QT EPA 508/08/8000											
QT EPA 515/08150											
QT EPA 525											
QT EPA 525 TRAVEL BLANK											
40ml EPA 547											
40ml EPA 531.1											
Box EPA 548											
QT EPA 549											
QT EPA 8015M											
QT EPA 8270											IJK
Box / 16oz / 32oz AMBER											
Box / 16oz / 32oz JAR											
SOIL SLEEVE											
PCB VIAL											
PLASTIC BAG											
TEDLAR BAG											
FERROUS IRON											
INCORE											
SMART KIT											
SUMMA CANISTER											

Comments: (7, 8, 10, E Half Full) (-78 G & 10 H Half Full) CMZ Date/Time: 6/18/20 0920

Sample Numbering Completed By: _____ Date/Time: _____

A = Actual / C = Corrected

Rev 21 05/23/2016 IS/WH/Dec/Ware/Perfect/LAS_COCS/FORMS/SANREC/rev 30



BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 of 2

Submission #: 20-17619

SHIPPING INFORMATION
 Fed Ex UPS Ontrac Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO
 W / S

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____

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

COC Received YES NO

Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time: 6/18/1900

Temperature: (A) 2.8 °C (IC) 2.6 °C Analyst Init: GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES		D	D	D	JK	D				
4oz / Box (16oz) PE UNPRES		E	E	E	L	E				
2oz Cr ⁴⁺		F	F	F	MN	F				
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / Box (16oz)		G	G	G	O	G				
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PL PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 5050R/5050										
QT EPA 515.1/5150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
3oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
3oz / 16oz / 32oz AMBER										
1oz / 16oz / 32oz JAR										
SOIL SLEEVE										
ICE VIAL										
PLASTIC BAG										
EDLAR BAG										
ERROUS IRON										
NCORE										
MART KIT										
UMMA CANISTER										

Comments: _____

Sample Numbering Completed By: GSP Date/Time: 6/18/1941

= Actual / C = Corrected

Rev 21 05/23/2016

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

Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2017619-01	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: TB-7-061720 Sampled By: Blaine Tech of BTST	Receive Date: 06/17/2020 19:10 Sampling Date: 06/17/2020 08:00 Sample Depth: --- Lab Matrix: Water Sample Type: Trip Blank Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-7-061720 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

2017619-02	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-22-S Sampled By: Blaine Tech of BTST	Receive Date: 06/17/2020 19:10 Sampling Date: 06/17/2020 09:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-22-S Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

2017619-03	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-22-4 Sampled By: Blaine Tech of BTST	Receive Date: 06/17/2020 19:10 Sampling Date: 06/17/2020 10:00 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: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2017619-04	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-22-3 Sampled By: Blaine Tech of BTST	Receive Date: 06/17/2020 19:10 Sampling Date: 06/17/2020 10:30 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:
-------------------	---	---

2017619-05	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-22-2 Sampled By: Blaine Tech of BTST	Receive Date: 06/17/2020 19:10 Sampling Date: 06/17/2020 11:15 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:
-------------------	---	---

2017619-06	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-22-1 Sampled By: Blaine Tech of BTST	Receive Date: 06/17/2020 19:10 Sampling Date: 06/17/2020 12:15 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-22-1 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

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

Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2017619-07	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: EB-7-061720 Sampled By: Blaine Tech of BTST	Receive Date: 06/17/2020 19:10 Sampling Date: 06/17/2020 15:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-7-061720 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

2017619-08	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-24-5 Sampled By: Blaine Tech of BTST	Receive Date: 06/17/2020 19:10 Sampling Date: 06/17/2020 16:30 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:
-------------------	---	---

2017619-09	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-24-2 Sampled By: Blaine Tech of BTST	Receive Date: 06/17/2020 19:10 Sampling Date: 06/17/2020 15:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-24-2 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

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

Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2017619-10	COC Number: ---	Receive Date: 06/17/2020 19:10
	Project Number: JPL	Sampling Date: 06/17/2020 14:00
	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: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017619-01	Client Sample Name: JPL, TB-7-061720, 6/17/2020 8:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/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: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017619-01	Client Sample Name: JPL, TB-7-061720, 6/17/2020 8:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
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	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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

Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017619-01	Client Sample Name: JPL, TB-7-061720, 6/17/2020 8:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	113	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/19/20 08:00	06/19/20 21:15	MGC	MS-V5	1	B080560	EPA 524.2

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Powell, OH 43065

Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017619-01	Client Sample Name: JPL, TB-7-061720, 6/17/2020 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/19/20 08:00	06/19/20	21:15	MGC	MS-V5	1	B080560	EPA 524.2

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Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017619-02	Client Sample Name: JPL, MW-22-S, 6/17/2020 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/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: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017619-02		Client Sample Name: JPL, MW-22-S, 6/17/2020 9:00:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
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	10	9.4	EPA-524.2	ND		1
Carbon disulfide	0.71	ug/L	1.0	0.48	EPA-524.2	ND	J	1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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Powell, OH 43065

Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017619-02	Client Sample Name: JPL, MW-22-S, 6/17/2020 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	111	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/19/20 08:00	06/19/20 21:39	MGC	MS-V5	1	B080560	EPA 524.2

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Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017619-02	Client Sample Name: JPL, MW-22-S, 6/17/2020 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/19/20 08:00	06/19/20	21:39	MGC	MS-V5	1	B080560	EPA 524.2

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Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

Table with 9 columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Provides details for each of the 7 runs.

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Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017619-02	Client Sample Name: JPL, MW-22-S, 6/17/2020 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000090	mg/L	0.00020	0.000032	EPA-218.6	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	53	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/18/20 19:00	06/18/20	21:43	CMM	IC-4	1	B080570	No Prep
2	EPA-200.8	06/22/20 18:45	06/23/20	12:27	JNC	PE-EL4	1	B080772	EPA 200.2
3	EPA-200.7	06/22/20 18:10	06/23/20	12:22	JRG	PE-OP4	1	B080771	EPA 200.2

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Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017619-03	Client Sample Name: JPL, MW-22-4, 6/17/2020 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/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: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017619-03	Client Sample Name: JPL, MW-22-4, 6/17/2020 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
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	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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

Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017619-03	Client Sample Name: JPL, MW-22-4, 6/17/2020 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	111	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/19/20 08:00	06/19/20 22:03	MGC	MS-V5	1	B080560	EPA 524.2

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Tidewater Inc. - Powell
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Powell, OH 43065

Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017619-03	Client Sample Name: JPL, MW-22-4, 6/17/2020 10:00:00AM, Blaine Tech
----------------------------------	--

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/19/20 08:00	06/19/20	22:03	MGC	MS-V5	1	B080560	EPA 524.2

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Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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Tidewater Inc. - Powell
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Powell, OH 43065

Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017619-03	Client Sample Name: JPL, MW-22-4, 6/17/2020 10:00:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0025	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	2.8	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	39	ug/L	50	30	EPA-200.7	ND	J	3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/18/20 19:00	06/18/20	21:53	CMM	IC-4	1	B080570	No Prep
2	EPA-200.8	06/22/20 18:45	06/23/20	12:29	JNC	PE-EL4	1	B080772	EPA 200.2
3	EPA-200.7	06/22/20 18:10	06/23/20	12:28	JRG	PE-OP4	1	B080771	EPA 200.2

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Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017619-04	Client Sample Name: JPL, MW-22-3, 6/17/2020 10:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/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: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017619-04	Client Sample Name: JPL, MW-22-3, 6/17/2020 10:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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Powell, OH 43065

Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017619-04	Client Sample Name: JPL, MW-22-3, 6/17/2020 10:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	113	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	94.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/19/20 08:00	06/19/20 22:27	MGC	MS-V5	1	B080560	EPA 524.2

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Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017619-04	Client Sample Name: JPL, MW-22-3, 6/17/2020 10:30:00AM, Blaine Tech
----------------------------------	--

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/19/20 08:00	06/19/20	22:27	MGC	MS-V5	1	B080560	EPA 524.2

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Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2017619-04		Client Sample Name: JPL, MW-22-3, 6/17/2020 10:30:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	42	mg/L	0.10	0.014	EPA-200.7	ND		1
Total Recoverable Magnesium	17	mg/L	0.050	0.019	EPA-200.7	ND		1
Total Recoverable Sodium	38	mg/L	0.50	0.051	EPA-200.7	ND		1
Total Recoverable Potassium	2.1	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	170	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	140	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	38	mg/L	0.50	0.13	EPA-300.0	ND		3
Nitrate as N	7.4	mg/L	0.10	0.024	EPA-300.0	ND		3
Sulfate	40	mg/L	1.0	0.14	EPA-300.0	ND		3
pH	8.04	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	340	mg/L	20	10	EPA-160.1	ND	A07	5
Nitrite as N	0.016	mg/L	0.050	0.010	EPA-353.2	ND	J	6
Perchlorate	3.5	ug/L	4.0	0.81	EPA-314.0	ND	J	7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/22/20 18:10	06/23/20	12:30	JRG	PE-OP4	1	B080771	EPA 200.2
2	SM-2320B	06/23/20 09:00	06/23/20	11:31	MEV	MET-1	1	B067982	No Prep
3	EPA-300.0	06/18/20 13:00	06/19/20	03:12	SAV	IC1	1	B080557	No Prep
4	EPA-150.1	06/23/20 09:00	06/23/20	11:31	MEV	MET-1	1	B067982	No Prep
5	EPA-160.1	06/19/20 16:00	06/19/20	16:00	CAD	SPEC06	2	B080617	No Prep
6	EPA-353.2	06/18/20 18:00	06/18/20	22:03	CMM	KONE-1	1	B080599	No Prep
7	EPA-314.0	06/25/20 09:00	06/25/20	15:56	KB1	IC6	1	B081059	No Prep

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Powell, OH 43065

Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017619-04	Client Sample Name: JPL, MW-22-3, 6/17/2020 10:30:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00075	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	0.96	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	39	ug/L	50	30	EPA-200.7	ND	J	3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/18/20 19:00	06/18/20 22:02		CMM	IC-4	1	B080570	No Prep
2	EPA-200.8	06/22/20 18:45	06/23/20 12:32		JNC	PE-EL4	1	B080772	EPA 200.2
3	EPA-200.7	06/22/20 18:10	06/23/20 12:30		JRG	PE-OP4	1	B080771	EPA 200.2

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Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017619-05	Client Sample Name: JPL, MW-22-2, 6/17/2020 11:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.25	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017619-05	Client Sample Name: JPL, MW-22-2, 6/17/2020 11:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	0.25	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	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	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: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017619-05	Client Sample Name: JPL, MW-22-2, 6/17/2020 11:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	3.3	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	1.1	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/19/20 08:00	06/19/20 14:27	MGC	MS-V5	1	B080560	EPA 524.2

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Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017619-05	Client Sample Name: JPL, MW-22-2, 6/17/2020 11:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/19/20 08:00	06/19/20	14:27	MGC	MS-V5	1	B080560	EPA 524.2

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Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2017619-05		Client Sample Name: JPL, MW-22-2, 6/17/2020 11:15:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	64	mg/L	0.10	0.014	EPA-200.7	0.018		1	
Total Recoverable Magnesium	25	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	31	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	2.2	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	230	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	190	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	52	mg/L	0.50	0.13	EPA-300.0	ND		3	
Nitrate as N	7.6	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	56	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	8.12	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	450	mg/L	20	10	EPA-160.1	ND	A07	5	
Nitrite as N	0.016	mg/L	0.050	0.010	EPA-353.2	0.018	J	6	
Perchlorate	2.8	ug/L	4.0	0.81	EPA-314.0	ND	J	7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/22/20 18:10	06/23/20	11:24	JRG	PE-OP4	1	B080770	EPA 200.2
2	SM-2320B	06/23/20 09:00	06/23/20	11:02	MEV	MET-1	1	B067982	No Prep
3	EPA-300.0	06/18/20 13:00	06/19/20	00:24	SAV	IC1	1	B080557	No Prep
4	EPA-150.1	06/23/20 09:00	06/23/20	11:02	MEV	MET-1	1	B067982	No Prep
5	EPA-160.1	06/19/20 16:00	06/19/20	16:00	CAD	SPEC06	2	B080617	No Prep
6	EPA-353.2	06/18/20 18:00	06/18/20	22:03	CMM	KONE-1	1	B080600	No Prep
7	EPA-314.0	06/25/20 09:00	06/25/20	10:52	KB1	IC6	1	B081059	No Prep

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Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017619-05	Client Sample Name: JPL, MW-22-2, 6/17/2020 11:15:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0013	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	1.4	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	52	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/18/20 19:00	06/18/20	22:22	SAV	IC-4	1	B080571	No Prep
2	EPA-200.8	06/22/20 18:45	06/23/20	12:06	JNC	PE-EL4	1	B080772	EPA 200.2
3	EPA-200.7	06/22/20 18:10	06/23/20	11:24	JRG	PE-OP4	1	B080770	EPA 200.2

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Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017619-06	Client Sample Name: JPL, MW-22-1, 6/17/2020 12:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	2.1	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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Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017619-06		Client Sample Name: JPL, MW-22-1, 6/17/2020 12:15:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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Powell, OH 43065

Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017619-06	Client Sample Name: JPL, MW-22-1, 6/17/2020 12:15:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01,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)	115	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/19/20 08:00	06/19/20 22:51	MGC	MS-V5	1	B080560	EPA 524.2

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Powell, OH 43065

Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017619-06	Client Sample Name: JPL, MW-22-1, 6/17/2020 12:15:00PM, Blaine Tech
----------------------------------	--

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/19/20 08:00	06/19/20	22:51	MGC	MS-V5	1	B080560	EPA 524.2

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Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2017619-06		Client Sample Name: JPL, MW-22-1, 6/17/2020 12:15:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	95	mg/L	0.10	0.014	EPA-200.7	ND		1
Total Recoverable Magnesium	32	mg/L	0.050	0.019	EPA-200.7	ND		1
Total Recoverable Sodium	30	mg/L	0.50	0.051	EPA-200.7	ND		1
Total Recoverable Potassium	2.3	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	270	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	220	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	83	mg/L	0.50	0.13	EPA-300.0	ND		3
Nitrate as N	3.5	mg/L	0.10	0.024	EPA-300.0	ND		3
Sulfate	80	mg/L	1.0	0.14	EPA-300.0	ND		3
pH	7.93	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	600	mg/L	33	17	EPA-160.1	ND	A07	5
Nitrite as N	0.014	mg/L	0.050	0.010	EPA-353.2	ND	J	6
Perchlorate	160	ug/L	80	16	EPA-314.0	ND	A07	7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/22/20 18:10	06/23/20 12:32		JRG	PE-OP4	1	B080771	EPA 200.2
2	SM-2320B	06/23/20 09:00	06/23/20 11:39		MEV	MET-1	1	B067982	No Prep
3	EPA-300.0	06/18/20 13:00	06/19/20 03:33		SAV	IC1	1	B080557	No Prep
4	EPA-150.1	06/23/20 09:00	06/23/20 11:39		MEV	MET-1	1	B067982	No Prep
5	EPA-160.1	06/19/20 16:00	06/19/20 16:00		CAD	SPEC06	3.333	B080617	No Prep
6	EPA-353.2	06/18/20 18:00	06/18/20 22:03		CMM	KONE-1	1	B080599	No Prep
7	EPA-314.0	06/25/20 09:00	06/26/20 11:59		SAV	IC6	20	B081060	No Prep

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Powell, OH 43065

Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017619-06	Client Sample Name: JPL, MW-22-1, 6/17/2020 12:15:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00048	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	0.86	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	200	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/18/20 19:00	06/18/20 22:12		CMM	IC-4	1	B080570	No Prep
2	EPA-200.8	06/22/20 18:45	06/23/20 12:34		JNC	PE-EL4	1	B080772	EPA 200.2
3	EPA-200.7	06/22/20 18:10	06/23/20 12:32		JRG	PE-OP4	1	B080771	EPA 200.2

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Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017619-07	Client Sample Name: JPL, EB-7-061720, 6/17/2020 3:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/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: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017619-07	Client Sample Name: JPL, EB-7-061720, 6/17/2020 3:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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Powell, OH 43065

Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017619-07	Client Sample Name: JPL, EB-7-061720, 6/17/2020 3:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	114	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/19/20 08:00	06/19/20 23:15	MGC	MS-V5	1	B080560	EPA 524.2

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Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017619-07	Client Sample Name: JPL, EB-7-061720, 6/17/2020 3:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/19/20 08:00	06/19/20	23:15	MGC	MS-V5	1	B080560	EPA 524.2

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Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows 1-7 corresponding to the main analysis table.

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Powell, OH 43065

Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017619-07	Client Sample Name: JPL, EB-7-061720, 6/17/2020 3:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000038	mg/L	0.00020	0.000032	EPA-218.6	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	1.4	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/18/20 19:00	06/18/20	20:46	CMM	IC-4	1	B080570	No Prep
2	EPA-200.8	06/22/20 18:45	06/23/20	12:36	JNC	PE-EL4	1	B080772	EPA 200.2
3	EPA-200.7	06/22/20 18:10	06/23/20	12:34	JRG	PE-OP4	1	B080771	EPA 200.2

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Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2017619-08	Client Sample Name:	JPL, MW-24-5, 6/17/2020 4:30:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1	
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1	
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1	
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chlorobenzene	ND	ug/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: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2017619-08) and Client Sample Name (JPL, MW-24-5, 6/17/2020 4:30:00PM, Blaine Tech)

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

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Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017619-08	Client Sample Name: JPL, MW-24-5, 6/17/2020 4:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	113	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/19/20 08:00	06/19/20 23:39	MGC	MS-V5	1	B080560	EPA 524.2

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Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017619-08	Client Sample Name: JPL, MW-24-5, 6/17/2020 4:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/19/20 08:00	06/19/20	23:39	MGC	MS-V5	1	B080560	EPA 524.2

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Powell, OH 43065

Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017619-08	Client Sample Name: JPL, MW-24-5, 6/17/2020 4:30:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0023	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	2.3	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	3.1	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	250	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	0.13	ug/L	1.0	0.10	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/18/20 19:00	06/18/20	20:55	CMM	IC-4	1	B080570	No Prep
2	EPA-200.8	06/22/20 18:45	06/23/20	12:39	JNC	PE-EL4	1	B080772	EPA 200.2
3	EPA-200.7	06/22/20 18:10	06/23/20	12:36	JRG	PE-OP4	1	B080771	EPA 200.2

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Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017619-09	Client Sample Name: JPL, MW-24-2, 6/17/2020 3:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	0.35	ug/L	0.50	0.20	EPA-524.2	ND	J	1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.89	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	0.31	ug/L	0.50	0.15	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017619-09		Client Sample Name: JPL, MW-24-2, 6/17/2020 3:30:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	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	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	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017619-09	Client Sample Name: JPL, MW-24-2, 6/17/2020 3:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	114	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/19/20 08:00	06/19/20 18:51	MGC	MS-V5	1	B080563	EPA 524.2

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

Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017619-09	Client Sample Name: JPL, MW-24-2, 6/17/2020 3:30:00PM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/19/20 08:00	06/19/20	18:51	MGC	MS-V5	1	B080563	EPA 524.2

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Powell, OH 43065

Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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

Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017619-09	Client Sample Name: JPL, MW-24-2, 6/17/2020 3:30:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0022	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	1.9	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	1.8	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	90	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/18/20 19:00	06/18/20	20:07	CMM	IC-4	1	B080570	No Prep
2	EPA-200.8	06/22/20 18:45	06/23/20	10:46	JNC	PE-EL2	1	B080773	EPA 200.2
3	EPA-200.7	06/22/20 18:10	06/23/20	12:08	JRG	PE-OP4	1	B080771	EPA 200.2

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Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017619-10	Client Sample Name: JPL, MW-24-1, 6/17/2020 2:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	4.1	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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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017619-10	Client Sample Name: JPL, MW-24-1, 6/17/2020 2:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND	V11	1

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3761 Attucks Drive
Powell, OH 43065

Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017619-10	Client Sample Name: JPL, MW-24-1, 6/17/2020 2:00:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	114	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/19/20 08:00	06/20/20 00:03	MGC	MS-V5	1	B080563	EPA 524.2

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Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017619-10	Client Sample Name: JPL, MW-24-1, 6/17/2020 2:00:00PM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/19/20 08:00	06/20/20	00:03	MGC	MS-V5	1	B080563	EPA 524.2

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Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

1,4-Dioxane (EPA Method 8270C)

BCL Sample ID: 2017619-10	Client Sample Name: JPL, MW-24-1, 6/17/2020 2:00:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,4-Dioxane	ND	ug/L	1.0	0.16	EPA-8270C	ND		1
Naphthalene-d8 (Surrogate)	89.1	%	70 - 130 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-8270C	06/24/20 22:00	06/25/20	20:29	OLH	MS-B4	1	B081147	EPA 3510C

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

Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows 1-8 detailing sample preparation and analysis parameters.

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Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017619-10	Client Sample Name: JPL, MW-24-1, 6/17/2020 2:00:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00014	mg/L	0.00020	0.000032	EPA-218.6	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	1.1	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	180	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/18/20 19:00	06/18/20	21:05	CMM	IC-4	1	B080570	No Prep
2	EPA-200.8	06/22/20 18:45	06/23/20	12:41	JNC	PE-EL4	1	B080772	EPA 200.2
3	EPA-200.7	06/22/20 18:10	06/23/20	12:39	JRG	PE-OP4	1	B080771	EPA 200.2

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3761 Attucks Drive
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Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080560						
Benzene	B080560-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B080560-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B080560-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B080560-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B080560-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B080560-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B080560-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B080560-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B080560-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B080560-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B080560-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B080560-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B080560-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B080560-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B080560-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B080560-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B080560-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B080560-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B080560-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B080560-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B080560-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B080560-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B080560-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B080560-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B080560-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B080560-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B080560-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B080560-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B080560-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B080560-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B080560-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B080560-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B080560-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B080560-BLK1	ND	ug/L	0.50	0.14	

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3761 Attucks Drive
Powell, OH 43065

Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080560						
trans-1,3-Dichloropropene	B080560-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B080560-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B080560-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B080560-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B080560-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B080560-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B080560-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B080560-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B080560-BLK1	ND	ug/L	0.50	0.12	
Styrene	B080560-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B080560-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2,2-Tetrachloroethane	B080560-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B080560-BLK1	ND	ug/L	0.50	0.23	
Toluene	B080560-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B080560-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B080560-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B080560-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B080560-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B080560-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B080560-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B080560-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B080560-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B080560-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B080560-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B080560-BLK1	ND	ug/L	0.50	0.18	
Acetone	B080560-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B080560-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B080560-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B080560-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B080560-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	B080560-BLK1	ND	ug/L	1.0	0.48	
trans-1,4-Dichloro-2-butene	B080560-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B080560-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B080560-BLK1	ND	ug/L	4.0	1.3	

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Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
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QC Batch ID: B080560

Ethyl t-butyl ether	B080560-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B080560-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B080560-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B080560-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B080560-BLK1	ND	ug/L	10	3.3	
Methyl iodide	B080560-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B080560-BLK1	ND	ug/L	10	2.4	
Methyl methacrylate	B080560-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B080560-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B080560-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B080560-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B080560-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B080560-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B080560-BLK1	107	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B080560-BLK1	96.5	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B080560-BLK1	99.0	%	80 - 120 (LCL - UCL)		

QC Batch ID: B080563

Benzene	B080563-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B080563-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B080563-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B080563-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B080563-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B080563-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B080563-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B080563-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B080563-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B080563-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B080563-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B080563-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B080563-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B080563-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B080563-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B080563-BLK1	ND	ug/L	0.50	0.093	

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Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080563						
Dibromochloromethane	B080563-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B080563-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B080563-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B080563-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B080563-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B080563-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B080563-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B080563-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Dichloroethane	B080563-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B080563-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B080563-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B080563-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B080563-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B080563-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B080563-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B080563-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B080563-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B080563-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	B080563-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B080563-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B080563-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B080563-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B080563-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B080563-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B080563-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B080563-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B080563-BLK1	ND	ug/L	0.50	0.12	
Styrene	B080563-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B080563-BLK1	ND	ug/L	0.50	0.21	
1,1,2,2-Tetrachloroethane	B080563-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B080563-BLK1	ND	ug/L	0.50	0.23	
Toluene	B080563-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B080563-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B080563-BLK1	ND	ug/L	0.50	0.15	

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Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Table with 7 columns: Constituent, QC Sample ID, MB Result, Units, PQL, MDL, Lab Quals. Includes a QC Batch ID: B080563 and a list of 30 chemical constituents with their respective results and quality control values.

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Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: B080560										
Benzene	B080560-BS1	LCS	25.860	25.000	ug/L	103		70 - 130		
Bromodichloromethane	B080560-BS1	LCS	26.660	25.000	ug/L	107		70 - 130		
Chlorobenzene	B080560-BS1	LCS	23.170	25.000	ug/L	92.7		70 - 130		
Chloroethane	B080560-BS1	LCS	26.160	25.000	ug/L	105		70 - 130		
1,4-Dichlorobenzene	B080560-BS1	LCS	23.220	25.000	ug/L	92.9		70 - 130		
1,1-Dichloroethane	B080560-BS1	LCS	26.550	25.000	ug/L	106		70 - 130		
1,1-Dichloroethene	B080560-BS1	LCS	26.980	25.000	ug/L	108		70 - 130		
Toluene	B080560-BS1	LCS	24.600	25.000	ug/L	98.4		70 - 130		
Trichloroethene	B080560-BS1	LCS	26.020	25.000	ug/L	104		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B080560-BS1	LCS	11.100	10.000	ug/L	111		75 - 125		
Toluene-d8 (Surrogate)	B080560-BS1	LCS	9.9100	10.000	ug/L	99.1		80 - 120		
4-Bromofluorobenzene (Surrogate)	B080560-BS1	LCS	10.010	10.000	ug/L	100		80 - 120		

QC Batch ID: B080563										
Benzene	B080563-BS1	LCS	25.690	25.000	ug/L	103		70 - 130		
Bromodichloromethane	B080563-BS1	LCS	27.510	25.000	ug/L	110		70 - 130		
Chlorobenzene	B080563-BS1	LCS	22.850	25.000	ug/L	91.4		70 - 130		
Chloroethane	B080563-BS1	LCS	26.030	25.000	ug/L	104		70 - 130		
1,4-Dichlorobenzene	B080563-BS1	LCS	23.470	25.000	ug/L	93.9		70 - 130		
1,1-Dichloroethane	B080563-BS1	LCS	27.000	25.000	ug/L	108		70 - 130		
1,1-Dichloroethene	B080563-BS1	LCS	26.830	25.000	ug/L	107		70 - 130		
Toluene	B080563-BS1	LCS	24.510	25.000	ug/L	98.0		70 - 130		
Trichloroethene	B080563-BS1	LCS	26.960	25.000	ug/L	108		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B080563-BS1	LCS	11.220	10.000	ug/L	112		75 - 125		
Toluene-d8 (Surrogate)	B080563-BS1	LCS	10.070	10.000	ug/L	101		80 - 120		
4-Bromofluorobenzene (Surrogate)	B080563-BS1	LCS	9.9800	10.000	ug/L	99.8		80 - 120		

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Reported: 07/02/2020 14:35
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Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Control Limits Percent Recovery, Lab Quals. Includes QC Batch ID: B080560 and Used client sample: Y - Description: MW-22-2, 06/17/2020 11:15.

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Control Limits Percent Recovery, Lab Quals. Includes QC Batch ID: B080563 and Used client sample: Y - Description: MW-24-2, 06/17/2020 15:30.

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Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B080563		Used client sample: Y - Description: MW-24-2, 06/17/2020 15:30								
1,1-Dichloroethene	MS	2017619-09	ND	26.770	25.000	ug/L		107		70 - 130
	MSD	2017619-09	ND	27.070	25.000	ug/L	1.1	108	20	70 - 130
Toluene	MS	2017619-09	ND	23.810	25.000	ug/L		95.2		70 - 130
	MSD	2017619-09	ND	24.900	25.000	ug/L	4.5	99.6	20	70 - 130
Trichloroethene	MS	2017619-09	ND	24.960	25.000	ug/L		99.8		70 - 130
	MSD	2017619-09	ND	25.560	25.000	ug/L	2.4	102	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	2017619-09	ND	10.970	10.000	ug/L		110		75 - 125
	MSD	2017619-09	ND	10.980	10.000	ug/L	0.1	110		75 - 125
Toluene-d8 (Surrogate)	MS	2017619-09	ND	9.8800	10.000	ug/L		98.8		80 - 120
	MSD	2017619-09	ND	9.8700	10.000	ug/L	0.1	98.7		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	2017619-09	ND	10.310	10.000	ug/L		103		80 - 120
	MSD	2017619-09	ND	10.260	10.000	ug/L	0.5	103		80 - 120

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Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080560						
Chloroacetonitrile	B080560-BLK1	0	ug/L			
1-Chlorobutane	B080560-BLK1	0	ug/L			
1,1-Dichloropropanone	B080560-BLK1	0	ug/L			
Methyl acrylate	B080560-BLK1	0	ug/L			
Nitrobenzene	B080560-BLK1	0	ug/L			
2-Nitropropane	B080560-BLK1	0	ug/L			
QC Batch ID: B080563						
Chloroacetonitrile	B080563-BLK1	0	ug/L			
1-Chlorobutane	B080563-BLK1	0	ug/L			
1,1-Dichloropropanone	B080563-BLK1	0	ug/L			
Methyl acrylate	B080563-BLK1	0	ug/L			
Nitrobenzene	B080563-BLK1	0	ug/L			
2-Nitropropane	B080563-BLK1	0	ug/L			

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Reported: 07/02/2020 14:35
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Project Number: 2Q20
Project Manager: David Conner

1,4-Dioxane (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B081147						
1,4-Dioxane	B081147-BLK1	ND	ug/L	1.0	0.16	
Naphthalene-d8 (Surrogate)	B081147-BLK1	94.5	%	70 - 130 (LCL - UCL)		

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Project Number: 2Q20
Project Manager: David Conner

1,4-Dioxane (EPA Method 8270C)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B081147										
1,4-Dioxane	B081147-BS1	LCS	43.669	50.000	ug/L	87.3		70 - 130		
Naphthalene-d8 (Surrogate)	B081147-BS1	LCS	6.7320	8.0000	ug/L	84.2		70 - 130		

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Project Number: 2Q20
Project Manager: David Conner

1,4-Dioxane (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: B081147		Used client sample: N								
1,4-Dioxane	MS	2016224-83	ND	38.534	50.000	ug/L		77.1		70 - 130
	MSD	2016224-83	ND	38.540	50.000	ug/L	0.0	77.1	30	70 - 130
Naphthalene-d8 (Surrogate)	MS	2016224-83	ND	6.8736	8.0000	ug/L		85.9		70 - 130
	MSD	2016224-83	ND	7.2100	8.0000	ug/L	4.8	90.1		70 - 130

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Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B067982						
Bicarbonate	B067982-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B067982-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B067982-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: B067985						
Bicarbonate	B067985-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B067985-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B067985-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: B080556						
Chloride	B080556-BLK1	ND	mg/L	0.50	0.13	
Nitrate as N	B080556-BLK1	ND	mg/L	0.10	0.024	
Sulfate	B080556-BLK1	ND	mg/L	1.0	0.14	
QC Batch ID: B080557						
Chloride	B080557-BLK1	ND	mg/L	0.50	0.13	
Nitrate as N	B080557-BLK1	ND	mg/L	0.10	0.024	
Sulfate	B080557-BLK1	ND	mg/L	1.0	0.14	
QC Batch ID: B080599						
Nitrite as N	B080599-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: B080600						
Nitrite as N	B080600-BLK1	0.018332	mg/L	0.050	0.010	J
QC Batch ID: B080617						
Total Dissolved Solids @ 180 C	B080617-BLK1	ND	mg/L	6.7	3.3	
QC Batch ID: B080618						
Total Dissolved Solids @ 180 C	B080618-BLK1	ND	mg/L	6.7	3.3	
QC Batch ID: B080770						
Total Recoverable Calcium	B080770-BLK1	0.018126	mg/L	0.10	0.014	J
Total Recoverable Magnesium	B080770-BLK1	ND	mg/L	0.050	0.019	
Total Recoverable Sodium	B080770-BLK1	ND	mg/L	0.50	0.051	
Total Recoverable Potassium	B080770-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: B080771						
Total Recoverable Calcium	B080771-BLK1	ND	mg/L	0.10	0.014	

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

Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080771						
Total Recoverable Magnesium	B080771-BLK1	ND	mg/L	0.050	0.019	
Total Recoverable Sodium	B080771-BLK1	ND	mg/L	0.50	0.051	
Total Recoverable Potassium	B080771-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: B081016						
ortho-Phosphate as P	B081016-BLK1	ND	mg/L	0.050	0.017	
QC Batch ID: B081059						
Perchlorate	B081059-BLK1	ND	ug/L	4.0	0.81	
QC Batch ID: B081060						
Perchlorate	B081060-BLK1	ND	ug/L	4.0	0.81	

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

Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: B067982										
Total Alkalinity as CaCO3	B067982-BS3	LCS	96.000	100.00	mg/L	96.0		90 - 110		
pH	B067982-BS2	LCS	6.9900	7.0000	pH Units	99.9		95 - 105		
QC Batch ID: B067985										
Total Alkalinity as CaCO3	B067985-BS3	LCS	98.130	100.00	mg/L	98.1		90 - 110		
pH	B067985-BS2	LCS	6.9800	7.0000	pH Units	99.7		95 - 105		
QC Batch ID: B080556										
Chloride	B080556-BS1	LCS	50.928	50.000	mg/L	102		90 - 110		
Nitrate as N	B080556-BS1	LCS	5.1070	5.0000	mg/L	102		90 - 110		
Sulfate	B080556-BS1	LCS	101.12	100.00	mg/L	101		90 - 110		
QC Batch ID: B080557										
Chloride	B080557-BS1	LCS	50.562	50.000	mg/L	101		90 - 110		
Nitrate as N	B080557-BS1	LCS	5.1140	5.0000	mg/L	102		90 - 110		
Sulfate	B080557-BS1	LCS	100.96	100.00	mg/L	101		90 - 110		
QC Batch ID: B080599										
Nitrite as N	B080599-BS1	LCS	0.49727	0.50000	mg/L	99.5		90 - 110		
QC Batch ID: B080600										
Nitrite as N	B080600-BS1	LCS	0.53531	0.50000	mg/L	107		90 - 110		
QC Batch ID: B080617										
Total Dissolved Solids @ 180 C	B080617-BS1	LCS	585.00	586.00	mg/L	99.8		90 - 110		
QC Batch ID: B080618										
Total Dissolved Solids @ 180 C	B080618-BS1	LCS	570.00	586.00	mg/L	97.3		90 - 110		
QC Batch ID: B080770										
Total Recoverable Calcium	B080770-BS1	LCS	10.149	10.000	mg/L	101		85 - 115		
Total Recoverable Magnesium	B080770-BS1	LCS	10.123	10.000	mg/L	101		85 - 115		
Total Recoverable Sodium	B080770-BS1	LCS	10.003	10.000	mg/L	100		85 - 115		
Total Recoverable Potassium	B080770-BS1	LCS	9.6906	10.000	mg/L	96.9		85 - 115		
QC Batch ID: B080771										
Total Recoverable Calcium	B080771-BS1	LCS	10.448	10.000	mg/L	104		85 - 115		
Total Recoverable Magnesium	B080771-BS1	LCS	10.647	10.000	mg/L	106		85 - 115		
Total Recoverable Sodium	B080771-BS1	LCS	10.134	10.000	mg/L	101		85 - 115		
Total Recoverable Potassium	B080771-BS1	LCS	9.8383	10.000	mg/L	98.4		85 - 115		
QC Batch ID: B081016										

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

Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B081016										
ortho-Phosphate as P	B081016-BS1	LCS	0.51130	0.50000	mg/L	102		90 - 110		
QC Batch ID: B081059										
Perchlorate	B081059-BS1	LCS	10.106	10.000	ug/L	101		85 - 115		
QC Batch ID: B081060										
Perchlorate	B081060-BS1	LCS	9.9373	10.000	ug/L	99.4		85 - 115		

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

Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Qualls. Includes QC Batch IDs: B067982, B067985, B080556, B080557, B080599, B080600.

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

Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes QC batches B080600, B080617, B080618, B080770, B080771, and B081016.

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

Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: B081059		Used client sample: Y - Description: MW-22-2, 06/17/2020 11:15								
Perchlorate	DUP	2017619-05	2.8000	2.8238		ug/L	0.8		15	J
	MS	2017619-05	2.8000	12.728	10.101	ug/L		98.3	80 - 120	
	MSD	2017619-05	2.8000	12.819	10.101	ug/L	0.7	99.2	15 80 - 120	
QC Batch ID: B081060		Used client sample: Y - Description: MW-24-2, 06/17/2020 15:30								
Perchlorate	DUP	2017619-09	4.8831	4.8681		ug/L	0.3		15	
	MS	2017619-09	4.8831	15.213	10.101	ug/L		102	80 - 120	
	MSD	2017619-09	4.8831	14.857	10.101	ug/L	2.4	98.7	15 80 - 120	

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

Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080570						
Hexavalent Chromium	B080570-BLK1	ND	mg/L	0.00020	0.000032	
QC Batch ID: B080571						
Hexavalent Chromium	B080571-BLK1	ND	mg/L	0.00020	0.000032	
QC Batch ID: B080770						
Total Recoverable Iron	B080770-BLK1	ND	ug/L	50	30	
QC Batch ID: B080771						
Total Recoverable Iron	B080771-BLK1	ND	ug/L	50	30	
QC Batch ID: B080772						
Total Recoverable Arsenic	B080772-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B080772-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B080772-BLK1	ND	ug/L	1.0	0.10	
QC Batch ID: B080773						
Total Recoverable Arsenic	B080773-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B080773-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B080773-BLK1	ND	ug/L	1.0	0.10	

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

Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B080570										
Hexavalent Chromium	B080570-BS1	LCS	0.019184	0.020000	mg/L	95.9		90 - 110		
QC Batch ID: B080571										
Hexavalent Chromium	B080571-BS1	LCS	0.019959	0.020000	mg/L	99.8		90 - 110		
QC Batch ID: B080770										
Total Recoverable Iron	B080770-BS1	LCS	1056.3	1000.0	ug/L	106		85 - 115		
QC Batch ID: B080771										
Total Recoverable Iron	B080771-BS1	LCS	1105.2	1000.0	ug/L	111		85 - 115		
QC Batch ID: B080772										
Total Recoverable Arsenic	B080772-BS1	LCS	109.66	100.00	ug/L	110		85 - 115		
Total Recoverable Chromium	B080772-BS1	LCS	44.248	40.000	ug/L	111		85 - 115		
Total Recoverable Lead	B080772-BS1	LCS	107.11	100.00	ug/L	107		85 - 115		
QC Batch ID: B080773										
Total Recoverable Arsenic	B080773-BS1	LCS	105.78	100.00	ug/L	106		85 - 115		
Total Recoverable Chromium	B080773-BS1	LCS	43.270	40.000	ug/L	108		85 - 115		
Total Recoverable Lead	B080773-BS1	LCS	112.22	100.00	ug/L	112		85 - 115		

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

Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Control Limits Percent Recovery, Lab Quals. Includes QC Batch IDs B080570, B080571, B080770, B080771, B080772, and B080773.

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Certificate of Analysis

FINAL REPORT

Work Orders: OF24009

Project: 2017619

Attn: Natalie Serda

Client: BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308

Report Date: 7/01/2020

Received Date: 6/24/2020

Turnaround Time: Normal

Phones: (661) 327-4911

Fax: (661) 327-1918

P.O. #:

Billing Code:

Dear Natalie Serda,

Enclosed are the results of analyses for samples received 6/24/20 with the Chain-of-Custody document. The samples were received in good condition, at 5.8 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Sample Results

Sample: 2017619-10 Sampled: 06/17/20 14:00 by Client
OF24009-01 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 1625M N-Nitrosodimethylamine	Batch ID: W0F1497 Instr: GCMS09 ND	Prepared: 05/24/20 11:49 2.0	ng/l	1	Analyst: mld 06/25/20	

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WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Quality Control Results

Nitrosamines by isotopic dilution GC/MS CI Mode

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	RPD	Limit	Qualifier
Batch: W0F1497 - EPA 3535/SPE									
Blank (W0F1497-BLK1)				Prepared & Analyzed: 06/24/20					
N-Nitrosodimethylamine	ND	2.0	ng/l						
LCS (W0F1497-BS1)				Prepared & Analyzed: 06/24/20					
N-Nitrosodimethylamine	1.73	2.0	ng/l	2.00		86		50-150	
LCS Dup (W0F1497-BSD1)				Prepared & Analyzed: 06/24/20					
N-Nitrosodimethylamine	1.68	2.0	ng/l	2.00		84		50-150	2 50

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WECK LABORATORIES, INC.

Certificate of Analysis

FINAL REPORT

Notes and Definitions

Item	Definition
%REC	Percent Recovery
DI	Dilution
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

Reviewed by:

Regina M. Giancola
Project Manager



ELAP-CA #1132 • EPA-UCMR #CA00211 • HW-DOH # • ISD17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047 •
NJ-DEP #CAD15 • NV-DEP #NAC 445A • SCAQMD #93LA1006

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.



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

Reported: 07/02/2020 14:35
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Notes And Definitions

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

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Date of Report: 07/01/2020

David Conner

Tidewater Inc. - Powell

3761 Attucks Drive

Powell, OH 43065

Client Project: 2Q20

BCL Project: JPL- GW Monitoring Wells

BCL Work Order: 2017715

Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 6/18/2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda

Client Service Rep

Stuart Buttram

Technical Director

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

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Chain of Custody Form

BC Laboratories, Inc.

Page 1 of 2

Required Fields

Report To: Client: Tidewater, Inc. Attn: David Conner
 Street Address: 3781 Attucks Drive City: Powell State: OH Zip: 43065
 Phone: (628) 298-5715 Fax: (614) 792-2897
 Email Address: david.conner@clideh2o.net
 Submission #: 20-17715

Project Description: JPL-GW Monitoring
 Project Code: 2020
 Sampler(s): Blaine Tech

Analysis Requested

Sample #	Sample Description	Date	Time	Matrix*
1	EB-8-061820	6/18/20	0800	W
2	MU-25-5		1015	
3	MU-25-4		0930	
4	MU-25-3		1100	
5	MU-25-2		1130	
6	MU-25-1		1230	
7	EB-8-061820		1530	
8	MU-12-5		1515	
9	MU-12-4		1545	

Analysis Requested

Analysis	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	
VOCs EPA 524.2	X																				
TRM: Cr, Pb, As, Ca, Mg, K	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Na, Fe	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Hexavalent Cr 6 - 218.6 (mg/L)	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Cl, NO3, NO2, SO4, Perch.	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
CO3, HCO3, Alk, TDS, pH	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
Orthophosphate 365.1	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X	X
1,4 Dioxane 8270SIM																					
NOMA 1625M																					
PAHs, Phthalates, Phendis																					

Notes

CHK BY: DISTRIBUTION
 GDI JKL MANDY
 SUB-OUT
 LENGTH + MS/MSD
 HOLDING TIME
 CR-6 NO. NO. OP SS
 DO CL BOD MBAS COT

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 = 30

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

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

Lab TAT Approval: *Additional Charges May Apply

Comments:

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

Cost Center:

1. Requisitioned By: Eddie Conner Date: 6/18/20 Time: 10:15
 2. Requisitioned By: [Signature] Date: 6/18/20 Time: 19:00
 3. Requisitioned By: [Signature] Date: 6/18/20 Time: 19:00

Global ID:

1. Received By: [Signature] Date: 6-18-20 Time: 16:14
 2. Received By: [Signature] Date: 6-18-20 Time: 19:00
 3. Received By: [Signature] Date: 6-18-20 Time: 19:00

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

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 2

Submission #: 20-17715

SHIPPING INFORMATION
 Fed Ex UPS Ontrac Hand Delivery
 BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER
 Ice Chest None Box
 Other (Specify) _____

FREE LIQUID
 YES NO
 W / S

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

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

COC Received YES NO Emissivity: 0.91 Container: VOA Thermometer ID: 208 Date/Time: 6/18/2015
 Temperature: (A) 1.1 °C / (C) 1.1 °C Analyst Init: GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										E
4oz / 8oz / 16oz PE UNPRES										F
2oz Cr*										D
QT INORGANIC CHEMICAL METALS										G
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz										SI
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A									
40ml VOA VIAL		ABC	ABC	ABC	A→I	ABC	ABC	ABC	ABC	
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 50800R030										
QT EPA 515.1E150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8915M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLIEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____
 Sample Numbering Completed By: GSP Date/Time: 6/18/2015
 A = Actual / C = Corrected



BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 of 2

Submission #: 2017715

SHIPPING INFORMATION: Fed Ex UPS Ontrac Hand Delivery BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER: Ice Chest None Box Other (Specify) _____

FREE LIQUID: YES NO W / S

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____

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

COC Received: YES NO Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time: 6/18/2015 Analyst Init: GSP

Temperature: (A) 0.7 °C / (C) 0.5 °C

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES	E	E	E	CM	E	E	E			
4oz / 8oz / 16oz PE UNPRES	F	F	F	N	F	F	F			
2oz Cr ⁴	D	D	D	JK	D	D	D			
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz	G	G	G	O	G	G	G			
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
FIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL - 504										
QT EPA 503/609/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 543										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
CR VIAL										
PLASTIC BAG										
EDLAR BAG										
FERRUS IRON										
NCORE										
MART KIT										
UMMA CANISTER										

Comments: _____

Sample Numbering Completed By: GSP Date/Time: 6/18/2015

Rev 21 05/23/2016

IS/WPDeclWordPerfectLAB_DCCFORMS18AWREDocv 20



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

Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2017715-01	COC Number: --- Project Number: JPL GW Monitoring Sampling Location: --- Sampling Point: TB-8-061820 Sampled By: Blaine Tech of BTST	Receive Date: 06/18/2020 19:00 Sampling Date: 06/18/2020 08:00 Sample Depth: --- Lab Matrix: Water Sample Type: Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-8-061820 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

2017715-02	COC Number: --- Project Number: JPL GW Monitoring Sampling Location: --- Sampling Point: MW-25-5 Sampled By: Blaine Tech of BTST	Receive Date: 06/18/2020 19:00 Sampling Date: 06/18/2020 10:15 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-25-5 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

2017715-03	COC Number: --- Project Number: JPL GW Monitoring Sampling Location: --- Sampling Point: MW-25-4 Sampled By: Blaine Tech of BTST	Receive Date: 06/18/2020 19:00 Sampling Date: 06/18/2020 09:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-25-4 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

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

Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2017715-04	COC Number: --- Project Number: JPL GW Monitoring Sampling Location: --- Sampling Point: MW-25-3 Sampled By: Blaine Tech of BTST	Receive Date: 06/18/2020 19:00 Sampling Date: 06/18/2020 11:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-25-3 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

2017715-05	COC Number: --- Project Number: JPL GW Monitoring Sampling Location: --- Sampling Point: MW-25-2 Sampled By: Blaine Tech of BTST	Receive Date: 06/18/2020 19:00 Sampling Date: 06/18/2020 11:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-25-2 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

2017715-06	COC Number: --- Project Number: JPL GW Monitoring Sampling Location: --- Sampling Point: MW-25-1 Sampled By: Blaine Tech of BTST	Receive Date: 06/18/2020 19:00 Sampling Date: 06/18/2020 12:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-25-1 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

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

Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2017715-07	COC Number: --- Project Number: JPL GW Monitoring Sampling Location: --- Sampling Point: EB-8-061820 Sampled By: Blaine Tech of BTST	Receive Date: 06/18/2020 19:00 Sampling Date: 06/18/2020 15:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-8-061820 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

2017715-08	COC Number: --- Project Number: JPL GW Monitoring Sampling Location: --- Sampling Point: MW-12-5 Sampled By: Blaine Tech of BTST	Receive Date: 06/18/2020 19:00 Sampling Date: 06/18/2020 15:15 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-12-5 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

2017715-09	COC Number: --- Project Number: JPL GW Monitoring Sampling Location: --- Sampling Point: MW-12-4 Sampled By: Blaine Tech of BTST	Receive Date: 06/18/2020 19:00 Sampling Date: 06/18/2020 15:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-12-4 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

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

Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017715-01	Client Sample Name: JPL GW Monitoring, TB-8-061820, 6/18/2020 8:00:00AM, Blaine Tech
----------------------------------	---

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

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

Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017715-01	Client Sample Name: JPL GW Monitoring, TB-8-061820, 6/18/2020 8:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
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	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	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: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017715-01	Client Sample Name: JPL GW Monitoring, TB-8-061820, 6/18/2020 8:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	115	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/22/20 16:16	MGC	MS-V5	1	B080714	EPA 524.2

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

Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017715-01	Client Sample Name: JPL GW Monitoring, TB-8-061820, 6/18/2020 8:00:00AM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/22/20 16:16	MGC	MS-V5	1	B080714	EPA 524.2

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

Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017715-02	Client Sample Name: JPL GW Monitoring, MW-25-5, 6/18/2020 10:15:00AM, Blaine Tech
----------------------------------	--

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

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

Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2017715-02	Client Sample Name:	JPL GW Monitoring, MW-25-5, 6/18/2020 10:15:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1	
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1	
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
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	10	9.4	EPA-524.2	ND		1	
Carbon disulfide	ND	ug/L	1.0	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: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017715-02	Client Sample Name: JPL GW Monitoring, MW-25-5, 6/18/2020 10:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	113	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/22/20 16:40	MGC	MS-V5	1	B080714	EPA 524.2

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Powell, OH 43065

Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017715-02	Client Sample Name: JPL GW Monitoring, MW-25-5, 6/18/2020 10:15:00AM, Blaine Tech
----------------------------------	--

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/22/20	16:40	MGC	MS-V5	1	B080714	EPA 524.2

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Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017715-02	Client Sample Name: JPL GW Monitoring, MW-25-5, 6/18/2020 10:15:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.00020	0.000032	EPA-218.6	0.000032		1
Total Recoverable Arsenic	0.78	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	60	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/22/20 21:00	06/22/20	23:00	SAV	IC-4	1	B080785	No Prep
2	EPA-200.8	06/23/20 19:15	06/24/20	11:01	JNC	PE-EL4	1	B080882	EPA 200.2
3	EPA-200.7	06/23/20 19:00	06/24/20	12:18	JRG	PE-OP4	1	B080880	EPA 200.2

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Powell, OH 43065

Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017715-03	Client Sample Name: JPL GW Monitoring, MW-25-4, 6/18/2020 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2017715-03) and Client Sample Name (JPL GW Monitoring, MW-25-4, 6/18/2020 9:30:00AM, Blaine Tech)

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

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Powell, OH 43065

Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017715-03	Client Sample Name: JPL GW Monitoring, MW-25-4, 6/18/2020 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	114	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/22/20 17:04	MGC	MS-V5	1	B080714	EPA 524.2

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Powell, OH 43065

Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017715-03	Client Sample Name: JPL GW Monitoring, MW-25-4, 6/18/2020 9:30:00AM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/22/20	17:04	MGC	MS-V5	1	B080714	EPA 524.2

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3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2017715-03		Client Sample Name: JPL GW Monitoring, MW-25-4, 6/18/2020 9:30:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	91	mg/L	0.10	0.014	EPA-200.7	0.015		1	
Total Recoverable Magnesium	24	mg/L	0.050	0.019	EPA-200.7	0.023		1	
Total Recoverable Sodium	45	mg/L	0.50	0.051	EPA-200.7	0.051		1	
Total Recoverable Potassium	2.2	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	270	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	220	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	57	mg/L	0.50	0.13	EPA-300.0	0.19		3	
Nitrate as N	6.2	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	80	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	7.95	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	490	mg/L	33	17	EPA-160.1	ND	A07	5	
Nitrite as N	0.014	mg/L	0.050	0.010	EPA-353.2	0.013	J	6	
Perchlorate	8.1	ug/L	4.0	0.81	EPA-314.0	ND		7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/23/20 19:00	06/24/20	12:24	JRG	PE-OP4	1	B080880	EPA 200.2
2	SM-2320B	06/23/20 09:00	06/23/20	12:16	MEV	MET-1	1	B067982	No Prep
3	EPA-300.0	06/18/20 17:00	06/19/20	04:10	SAV	IC8	1	B080562	No Prep
4	EPA-150.1	06/23/20 09:00	06/23/20	12:16	MEV	MET-1	1	B067982	No Prep
5	EPA-160.1	06/22/20 18:00	06/22/20	18:00	CAD	MANUAL	3.333	B080751	No Prep
6	EPA-353.2	06/18/20 18:00	06/18/20	22:12	CMM	KONE-1	1	B080601	No Prep
7	EPA-314.0	06/29/20 10:00	06/29/20	12:51	SAV	IC6	1	B081210	No Prep

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3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017715-03	Client Sample Name: JPL GW Monitoring, MW-25-4, 6/18/2020 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00096	mg/L	0.00020	0.000032	EPA-218.6	0.000032		1
Total Recoverable Arsenic	1.2	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	3.6	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	380	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/22/20 21:00	06/22/20	23:10	SAV	IC-4	1	B080785	No Prep
2	EPA-200.8	06/23/20 19:15	06/24/20	11:03	JNC	PE-EL4	1	B080882	EPA 200.2
3	EPA-200.7	06/23/20 19:00	06/24/20	12:24	JRG	PE-OP4	1	B080880	EPA 200.2

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Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017715-04	Client Sample Name: JPL GW Monitoring, MW-25-3, 6/18/2020 11:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.34	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: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017715-04	Client Sample Name: JPL GW Monitoring, MW-25-3, 6/18/2020 11:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.55	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	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	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	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: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017715-04	Client Sample Name: JPL GW Monitoring, MW-25-3, 6/18/2020 11:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	114	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/22/20 17:28	MGC	MS-V5	1	B080714	EPA 524.2

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Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017715-04	Client Sample Name: JPL GW Monitoring, MW-25-3, 6/18/2020 11:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/22/20	17:28	MGC	MS-V5	1	B080714	EPA 524.2

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Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017715-04	Client Sample Name: JPL GW Monitoring, MW-25-3, 6/18/2020 11:00:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0032	mg/L	0.00020	0.000032	EPA-218.6	0.000032		1
Total Recoverable Arsenic	1.2	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	3.0	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	43	ug/L	50	30	EPA-200.7	ND	J	3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/22/20 21:00	06/22/20	23:19	SAV	IC-4	1	B080785	No Prep
2	EPA-200.8	06/23/20 19:15	06/24/20	11:06	JNC	PE-EL4	1	B080882	EPA 200.2
3	EPA-200.7	06/23/20 19:00	06/24/20	12:27	JRG	PE-OP4	1	B080880	EPA 200.2

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Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017715-05	Client Sample Name: JPL GW Monitoring, MW-25-2, 6/18/2020 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.30	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: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017715-05	Client Sample Name: JPL GW Monitoring, MW-25-2, 6/18/2020 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.41	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	0.51	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	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	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: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017715-05	Client Sample Name: JPL GW Monitoring, MW-25-2, 6/18/2020 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	114	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/22/20 13:28	MGC	MS-V5	1	B080714	EPA 524.2

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Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017715-05	Client Sample Name: JPL GW Monitoring, MW-25-2, 6/18/2020 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/22/20	13:28	MGC	MS-V5	1	B080714	EPA 524.2

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Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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Powell, OH 43065

Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017715-05	Client Sample Name: JPL GW Monitoring, MW-25-2, 6/18/2020 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0028	mg/L	0.00020	0.000032	EPA-218.6	0.000032		1
Total Recoverable Arsenic	1.1	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	3.2	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	54	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/22/20 21:00	06/22/20 22:22		CMM	IC-4	1	B080785	No Prep
2	EPA-200.8	06/23/20 19:15	06/24/20 10:38		JNC	PE-EL4	1	B080882	EPA 200.2
3	EPA-200.7	06/23/20 19:00	06/24/20 12:05		JRG	PE-OP4	1	B080880	EPA 200.2

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Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017715-06 **Client Sample Name:** JPL GW Monitoring, MW-25-1, 6/18/2020 12:30:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	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	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	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: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017715-06	Client Sample Name: JPL GW Monitoring, MW-25-1, 6/18/2020 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	0.47	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	0.65	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	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	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: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017715-06	Client Sample Name: JPL GW Monitoring, MW-25-1, 6/18/2020 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	116	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/22/20 17:52	MGC	MS-V5	1	B080714	EPA 524.2

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Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017715-06	Client Sample Name: JPL GW Monitoring, MW-25-1, 6/18/2020 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/22/20	17:52	MGC	MS-V5	1	B080714	EPA 524.2

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Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2017715-06		Client Sample Name: JPL GW Monitoring, MW-25-1, 6/18/2020 12:30:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	100	mg/L	0.10	0.014	EPA-200.7	0.015		1	
Total Recoverable Magnesium	32	mg/L	0.050	0.019	EPA-200.7	0.023		1	
Total Recoverable Sodium	39	mg/L	0.50	0.051	EPA-200.7	0.051		1	
Total Recoverable Potassium	2.9	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	270	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	220	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	70	mg/L	0.50	0.13	EPA-300.0	0.19		3	
Nitrate as N	7.7	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	110	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	7.65	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	550	mg/L	33	17	EPA-160.1	ND	A07	5	
Nitrite as N	0.012	mg/L	0.050	0.010	EPA-353.2	0.013	J	6	
Perchlorate	6.5	ug/L	4.0	0.81	EPA-314.0	ND		7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/23/20 19:00	06/24/20	12:29	JRG	PE-OP4	1	B080880	EPA 200.2
2	SM-2320B	06/23/20 10:00	06/23/20	13:02	MEV	MET-1	1	B067983	No Prep
3	EPA-300.0	06/18/20 17:00	06/19/20	04:51	SAV	IC8	1	B080562	No Prep
4	EPA-150.1	06/23/20 10:00	06/23/20	13:02	MEV	MET-1	1	B067983	No Prep
5	EPA-160.1	06/22/20 18:00	06/22/20	18:00	CAD	MANUAL	3.333	B080751	No Prep
6	EPA-353.2	06/18/20 18:00	06/18/20	22:16	CMM	KONE-1	1	B080601	No Prep
7	EPA-314.0	06/29/20 10:00	06/29/20	13:24	SAV	IC6	1	B081210	No Prep

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Powell, OH 43065

Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017715-06	Client Sample Name: JPL GW Monitoring, MW-25-1, 6/18/2020 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000036	mg/L	0.00020	0.000032	EPA-218.6	0.000032	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	1.6	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	1500	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/22/20 21:00	06/22/20	23:48	SAV	IC-4	1	B080785	No Prep
2	EPA-200.8	06/23/20 19:15	06/24/20	11:08	JNC	PE-EL4	1	B080882	EPA 200.2
3	EPA-200.7	06/23/20 19:00	06/24/20	12:29	JRG	PE-OP4	1	B080880	EPA 200.2

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Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017715-07	Client Sample Name: JPL GW Monitoring, EB-8-061820, 6/18/2020 3:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2017715-07	Client Sample Name:	JPL GW Monitoring, EB-8-061820, 6/18/2020 3:30:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1	
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1	
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1	
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1	
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1	
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1	
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1	
Carbon disulfide	ND	ug/L	1.0	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: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017715-07	Client Sample Name: JPL GW Monitoring, EB-8-061820, 6/18/2020 3:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	116	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/22/20 18:16	MGC	MS-V5	1	B080714	EPA 524.2

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Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017715-07	Client Sample Name: JPL GW Monitoring, EB-8-061820, 6/18/2020 3:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/22/20	18:16	MGC	MS-V5	1	B080714	EPA 524.2

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Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2017715-07		Client Sample Name: JPL GW Monitoring, EB-8-061820, 6/18/2020 3:30:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	0.045	mg/L	0.10	0.014	EPA-200.7	0.015	J	1
Total Recoverable Magnesium	0.024	mg/L	0.050	0.019	EPA-200.7	0.023	J	1
Total Recoverable Sodium	0.15	mg/L	0.50	0.051	EPA-200.7	0.051	J	1
Total Recoverable Potassium	ND	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	ND	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	0.19	mg/L	0.50	0.13	EPA-300.0	0.19	J	3
Nitrate as N	ND	mg/L	0.10	0.024	EPA-300.0	ND		3
Sulfate	ND	mg/L	1.0	0.14	EPA-300.0	ND		3
pH	4.51	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	5.3	mg/L	6.7	3.3	EPA-160.1	ND	J	5
Nitrite as N	0.013	mg/L	0.050	0.010	EPA-353.2	0.013	J	6
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/23/20 19:00	06/24/20 12:31		JRG	PE-OP4	1	B080880	EPA 200.2
2	SM-2320B	06/23/20 10:00	06/23/20 13:10		MEV	MET-1	1	B067983	No Prep
3	EPA-300.0	06/18/20 17:00	06/19/20 05:12		SAV	IC8	1	B080562	No Prep
4	EPA-150.1	06/23/20 10:00	06/23/20 13:10		MEV	MET-1	1	B067983	No Prep
5	EPA-160.1	06/22/20 18:00	06/22/20 18:00		CAD	MANUAL	0.667	B080751	No Prep
6	EPA-353.2	06/18/20 18:00	06/18/20 22:16		CMM	KONE-1	1	B080601	No Prep
7	EPA-314.0	06/29/20 10:00	06/29/20 15:21		CMM	IC6	1	B081210	No Prep

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Powell, OH 43065

Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017715-07	Client Sample Name: JPL GW Monitoring, EB-8-061820, 6/18/2020 3:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000060	mg/L	0.00020	0.000032	EPA-218.6	0.000032	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-218.6	06/22/20 21:00	06/22/20 23:58	SAV	IC-4	1	B080785	No Prep
2	EPA-200.8	06/23/20 19:15	06/24/20 11:10	JNC	PE-EL4	1	B080882	EPA 200.2
3	EPA-200.7	06/23/20 19:00	06/24/20 12:31	JRG	PE-OP4	1	B080880	EPA 200.2

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Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017715-08	Client Sample Name: JPL GW Monitoring, MW-12-5, 6/18/2020 3:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	0.23	ug/L	0.50	0.17	EPA-524.2	ND	J	1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.29	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: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2017715-08	Client Sample Name:	JPL GW Monitoring, MW-12-5, 6/18/2020 3:15:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1	
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1	
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1	
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1	
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1	
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1	
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1	
Carbon disulfide	ND	ug/L	1.0	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: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017715-08	Client Sample Name: JPL GW Monitoring, MW-12-5, 6/18/2020 3:15:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	115	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/22/20 18:40	MGC	MS-V5	1	B080714	EPA 524.2

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Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017715-08	Client Sample Name: JPL GW Monitoring, MW-12-5, 6/18/2020 3:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/22/20	18:40	MGC	MS-V5	1	B080714	EPA 524.2

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Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017715-08		Client Sample Name: JPL GW Monitoring, MW-12-5, 6/18/2020 3:15:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0012	mg/L	0.00020	0.000032	EPA-218.6	0.000032		1
Total Recoverable Arsenic	2.2	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	2.4	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	1100	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	0.11	ug/L	1.0	0.10	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/22/20 21:00	06/23/20	00:07	SAV	IC-4	1	B080785	No Prep
2	EPA-200.8	06/23/20 19:15	06/24/20	11:13	JNC	PE-EL4	1	B080882	EPA 200.2
3	EPA-200.7	06/23/20 19:00	06/24/20	12:33	JRG	PE-OP4	1	B080880	EPA 200.2

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Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2017715-09	Client Sample Name:	JPL GW Monitoring, MW-12-4, 6/18/2020 3:45:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1	
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1	
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1	
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
Carbon tetrachloride	0.37	ug/L	0.50	0.17	EPA-524.2	ND	J	1	
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chloroform	0.43	ug/L	0.50	0.14	EPA-524.2	ND	J	1	
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1	
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1	
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1	
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	

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Powell, OH 43065

Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017715-09	Client Sample Name: JPL GW Monitoring, MW-12-4, 6/18/2020 3:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	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: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017715-09	Client Sample Name: JPL GW Monitoring, MW-12-4, 6/18/2020 3:45:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	116	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/22/20 19:04	MGC	MS-V5	1	B080714	EPA 524.2

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Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017715-09	Client Sample Name: JPL GW Monitoring, MW-12-4, 6/18/2020 3:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/22/20	19:04	MGC	MS-V5	1	B080714	EPA 524.2

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Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2017715-09		Client Sample Name: JPL GW Monitoring, MW-12-4, 6/18/2020 3:45:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	61	mg/L	0.10	0.014	EPA-200.7	0.015		1	
Total Recoverable Magnesium	14	mg/L	0.050	0.019	EPA-200.7	0.023		1	
Total Recoverable Sodium	24	mg/L	0.50	0.051	EPA-200.7	0.051		1	
Total Recoverable Potassium	2.2	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	230	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	190	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	14	mg/L	0.50	0.13	EPA-300.0	0.19		3	
Nitrate as N	1.1	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	31	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	8.08	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	320	mg/L	20	10	EPA-160.1	ND	A07	5	
Nitrite as N	0.015	mg/L	0.050	0.010	EPA-353.2	0.013	J	6	
Perchlorate	2.0	ug/L	4.0	0.81	EPA-314.0	ND	J	7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/23/20 19:00	06/24/20 12:35		JRG	PE-OP4	1	B080880	EPA 200.2
2	SM-2320B	06/23/20 10:00	06/23/20 13:24		MEV	MET-1	1	B067983	No Prep
3	EPA-300.0	06/18/20 17:00	06/19/20 05:53		SAV	IC8	1	B080562	No Prep
4	EPA-150.1	06/23/20 10:00	06/23/20 13:24		MEV	MET-1	1	B067983	No Prep
5	EPA-160.1	06/22/20 18:00	06/22/20 18:00		CAD	MANUAL	2	B080751	No Prep
6	EPA-353.2	06/18/20 18:00	06/18/20 22:16		CMM	KONE-1	1	B080601	No Prep
7	EPA-314.0	06/29/20 10:00	06/29/20 15:54		CMM	IC6	1	B081210	No Prep

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Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017715-09	Client Sample Name: JPL GW Monitoring, MW-12-4, 6/18/2020 3:45:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00058	mg/L	0.00020	0.000032	EPA-218.6	0.000032		1
Total Recoverable Arsenic	1.8	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	0.56	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	43	ug/L	50	30	EPA-200.7	ND	J	3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/22/20 21:00	06/23/20 00:17		SAV	IC-4	1	B080785	No Prep
2	EPA-200.8	06/23/20 19:15	06/24/20 11:15		JNC	PE-EL4	1	B080882	EPA 200.2
3	EPA-200.7	06/23/20 19:00	06/24/20 12:35		JRG	PE-OP4	1	B080880	EPA 200.2

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Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080714						
Benzene	B080714-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B080714-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B080714-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B080714-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B080714-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B080714-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B080714-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B080714-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B080714-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B080714-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B080714-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B080714-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B080714-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B080714-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B080714-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B080714-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B080714-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B080714-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B080714-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B080714-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B080714-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B080714-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B080714-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B080714-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B080714-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B080714-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B080714-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B080714-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B080714-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B080714-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B080714-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B080714-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B080714-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B080714-BLK1	ND	ug/L	0.50	0.14	

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Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080714						
trans-1,3-Dichloropropene	B080714-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B080714-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B080714-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B080714-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B080714-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B080714-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B080714-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B080714-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B080714-BLK1	ND	ug/L	0.50	0.12	
Styrene	B080714-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B080714-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2,2-Tetrachloroethane	B080714-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B080714-BLK1	ND	ug/L	0.50	0.23	
Toluene	B080714-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B080714-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B080714-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B080714-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B080714-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B080714-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B080714-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B080714-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B080714-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B080714-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B080714-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B080714-BLK1	ND	ug/L	0.50	0.18	
Acetone	B080714-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B080714-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B080714-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B080714-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B080714-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	B080714-BLK1	ND	ug/L	1.0	0.48	
trans-1,4-Dichloro-2-butene	B080714-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B080714-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B080714-BLK1	ND	ug/L	4.0	1.3	

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Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080714						
Ethyl t-butyl ether	B080714-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B080714-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B080714-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B080714-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B080714-BLK1	ND	ug/L	10	3.3	
Methyl iodide	B080714-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B080714-BLK1	ND	ug/L	10	2.4	
Methyl methacrylate	B080714-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B080714-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B080714-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B080714-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B080714-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B080714-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B080714-BLK1	111	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B080714-BLK1	95.9	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B080714-BLK1	103	%	80 - 120 (LCL - UCL)		

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Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B080714										
Benzene	B080714-BS1	LCS	27.240	25.000	ug/L	109		70 - 130		
Bromodichloromethane	B080714-BS1	LCS	29.670	25.000	ug/L	119		70 - 130		
Chlorobenzene	B080714-BS1	LCS	24.670	25.000	ug/L	98.7		70 - 130		
Chloroethane	B080714-BS1	LCS	28.210	25.000	ug/L	113		70 - 130		
1,4-Dichlorobenzene	B080714-BS1	LCS	24.700	25.000	ug/L	98.8		70 - 130		
1,1-Dichloroethane	B080714-BS1	LCS	29.140	25.000	ug/L	117		70 - 130		
1,1-Dichloroethene	B080714-BS1	LCS	29.610	25.000	ug/L	118		70 - 130		
Toluene	B080714-BS1	LCS	25.280	25.000	ug/L	101		70 - 130		
Trichloroethene	B080714-BS1	LCS	27.270	25.000	ug/L	109		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B080714-BS1	LCS	11.380	10.000	ug/L	114		75 - 125		
Toluene-d8 (Surrogate)	B080714-BS1	LCS	9.7300	10.000	ug/L	97.3		80 - 120		
4-Bromofluorobenzene (Surrogate)	B080714-BS1	LCS	10.290	10.000	ug/L	103		80 - 120		

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Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B080714		Used client sample: Y - Description: MW-25-2, 06/18/2020 11:30								
Benzene	MS	2017715-05	ND	27.320	25.000	ug/L		109		70 - 130
	MSD	2017715-05	ND	26.940	25.000	ug/L	1.4	108	20	70 - 130
Bromodichloromethane	MS	2017715-05	ND	29.750	25.000	ug/L		119		70 - 130
	MSD	2017715-05	ND	30.020	25.000	ug/L	0.9	120	20	70 - 130
Chlorobenzene	MS	2017715-05	ND	24.920	25.000	ug/L		99.7		70 - 130
	MSD	2017715-05	ND	24.730	25.000	ug/L	0.8	98.9	20	70 - 130
Chloroethane	MS	2017715-05	ND	27.850	25.000	ug/L		111		70 - 130
	MSD	2017715-05	ND	27.140	25.000	ug/L	2.6	109	20	70 - 130
1,4-Dichlorobenzene	MS	2017715-05	ND	24.930	25.000	ug/L		99.7		70 - 130
	MSD	2017715-05	ND	24.900	25.000	ug/L	0.1	99.6	20	70 - 130
1,1-Dichloroethane	MS	2017715-05	ND	29.490	25.000	ug/L		118		70 - 130
	MSD	2017715-05	ND	29.310	25.000	ug/L	0.6	117	20	70 - 130
1,1-Dichloroethene	MS	2017715-05	ND	29.270	25.000	ug/L		117		70 - 130
	MSD	2017715-05	ND	29.480	25.000	ug/L	0.7	118	20	70 - 130
Toluene	MS	2017715-05	ND	25.660	25.000	ug/L		103		70 - 130
	MSD	2017715-05	ND	25.170	25.000	ug/L	1.9	101	20	70 - 130
Trichloroethene	MS	2017715-05	0.51000	27.980	25.000	ug/L		110		70 - 130
	MSD	2017715-05	0.51000	27.590	25.000	ug/L	1.4	108	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	2017715-05	ND	11.390	10.000	ug/L		114		75 - 125
	MSD	2017715-05	ND	11.190	10.000	ug/L	1.8	112		75 - 125
Toluene-d8 (Surrogate)	MS	2017715-05	ND	9.7800	10.000	ug/L		97.8		80 - 120
	MSD	2017715-05	ND	9.5400	10.000	ug/L	2.5	95.4		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	2017715-05	ND	10.230	10.000	ug/L		102		80 - 120
	MSD	2017715-05	ND	10.020	10.000	ug/L	2.1	100		80 - 120

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Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080714						
Chloroacetonitrile	B080714-BLK1	0	ug/L			
1-Chlorobutane	B080714-BLK1	0	ug/L			
1,1-Dichloropropanone	B080714-BLK1	0	ug/L			
Methyl acrylate	B080714-BLK1	0	ug/L			
Nitrobenzene	B080714-BLK1	0	ug/L			
2-Nitropropane	B080714-BLK1	0	ug/L			

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Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B067982						
Bicarbonate	B067982-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B067982-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B067982-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: B067983						
Bicarbonate	B067983-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B067983-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B067983-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: B080562						
Chloride	B080562-BLK1	0.19000	mg/L	0.50	0.13	J
Nitrate as N	B080562-BLK1	ND	mg/L	0.10	0.024	
Sulfate	B080562-BLK1	ND	mg/L	1.0	0.14	
QC Batch ID: B080601						
Nitrite as N	B080601-BLK1	0.012654	mg/L	0.050	0.010	J
QC Batch ID: B080751						
Total Dissolved Solids @ 180 C	B080751-BLK1	ND	mg/L	6.7	3.3	
QC Batch ID: B080880						
Total Recoverable Calcium	B080880-BLK1	0.014790	mg/L	0.10	0.014	J
Total Recoverable Magnesium	B080880-BLK1	0.022945	mg/L	0.050	0.019	J
Total Recoverable Sodium	B080880-BLK1	0.051150	mg/L	0.50	0.051	J
Total Recoverable Potassium	B080880-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: B081210						
Perchlorate	B081210-BLK1	ND	ug/L	4.0	0.81	

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Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: B067982										
Total Alkalinity as CaCO3	B067982-BS3	LCS	96.000	100.00	mg/L	96.0		90 - 110		
pH	B067982-BS2	LCS	6.9900	7.0000	pH Units	99.9		95 - 105		
QC Batch ID: B067983										
Total Alkalinity as CaCO3	B067983-BS3	LCS	99.950	100.00	mg/L	100		90 - 110		
pH	B067983-BS2	LCS	6.9800	7.0000	pH Units	99.7		95 - 105		
QC Batch ID: B080562										
Chloride	B080562-BS1	LCS	51.340	50.000	mg/L	103		90 - 110		
Nitrate as N	B080562-BS1	LCS	4.9200	5.0000	mg/L	98.4		90 - 110		
Sulfate	B080562-BS1	LCS	105.17	100.00	mg/L	105		90 - 110		
QC Batch ID: B080601										
Nitrite as N	B080601-BS1	LCS	0.53719	0.50000	mg/L	107		90 - 110		
QC Batch ID: B080751										
Total Dissolved Solids @ 180 C	B080751-BS1	LCS	590.00	586.00	mg/L	101		90 - 110		
QC Batch ID: B080880										
Total Recoverable Calcium	B080880-BS1	LCS	10.437	10.000	mg/L	104		85 - 115		
Total Recoverable Magnesium	B080880-BS1	LCS	10.146	10.000	mg/L	101		85 - 115		
Total Recoverable Sodium	B080880-BS1	LCS	10.149	10.000	mg/L	101		85 - 115		
Total Recoverable Potassium	B080880-BS1	LCS	9.6528	10.000	mg/L	96.5		85 - 115		
QC Batch ID: B081210										
Perchlorate	B081210-BS1	LCS	10.062	10.000	ug/L	101		85 - 115		

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

Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quails. Includes QC Batch IDs B067982, B067983, B080562, B080601, B080751, and B080880.

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

Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: B080880		Used client sample: Y - Description: MW-25-2, 06/18/2020 11:30								
Total Recoverable Potassium	DUP	2017715-05	2.6565	2.4631		mg/L	7.6		20	
	MS	2017715-05	2.6565	12.048	10.000	mg/L		93.9		75 - 125
	MSD	2017715-05	2.6565	12.058	10.000	mg/L	0.1	94.0	20	75 - 125
QC Batch ID: B081210		Used client sample: Y - Description: MW-25-2, 06/18/2020 11:30								
Perchlorate	DUP	2017715-05	12.049	11.678		ug/L	3.1		15	
	MS	2017715-05	12.049	20.885	10.101	ug/L		87.5		80 - 120
	MSD	2017715-05	12.049	20.211	10.101	ug/L	3.3	80.8	15	80 - 120

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

Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080785						
Hexavalent Chromium	B080785-BLK1	0.000032000	mg/L	0.00020	0.000032	J
QC Batch ID: B080880						
Total Recoverable Iron	B080880-BLK1	ND	ug/L	50	30	
QC Batch ID: B080882						
Total Recoverable Arsenic	B080882-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B080882-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B080882-BLK1	ND	ug/L	1.0	0.10	

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

Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B080785										
Hexavalent Chromium	B080785-BS1	LCS	0.019703	0.020000	mg/L	98.5		90 - 110		
QC Batch ID: B080880										
Total Recoverable Iron	B080880-BS1	LCS	1042.1	1000.0	ug/L	104		85 - 115		
QC Batch ID: B080882										
Total Recoverable Arsenic	B080882-BS1	LCS	104.72	100.00	ug/L	105		85 - 115		
Total Recoverable Chromium	B080882-BS1	LCS	40.937	40.000	ug/L	102		85 - 115		
Total Recoverable Lead	B080882-BS1	LCS	97.402	100.00	ug/L	97.4		85 - 115		

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

Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: B080785		Used client sample: Y - Description: MW-25-2, 06/18/2020 11:30								
Hexavalent Chromium	DUP	2017715-05	0.0027670	0.0027730		mg/L	0.2		10	
	MS	2017715-05	0.0027670	0.022420	0.020202	mg/L		97.3		90 - 110
	MSD	2017715-05	0.0027670	0.022394	0.020202	mg/L	0.1	97.2	10	90 - 110
QC Batch ID: B080880		Used client sample: Y - Description: MW-25-2, 06/18/2020 11:30								
Total Recoverable Iron	DUP	2017715-05	53.918	46.587		ug/L	14.6		20	J
	MS	2017715-05	53.918	1095.3	1000.0	ug/L		104		75 - 125
	MSD	2017715-05	53.918	1105.5	1000.0	ug/L	0.9	105	20	75 - 125
QC Batch ID: B080882		Used client sample: Y - Description: MW-25-2, 06/18/2020 11:30								
Total Recoverable Arsenic	DUP	2017715-05	1.0660	0.74100		ug/L	36.0		20	J,A02
	MS	2017715-05	1.0660	103.00	100.00	ug/L		102		70 - 130
	MSD	2017715-05	1.0660	103.60	100.00	ug/L	0.6	103	20	70 - 130
Total Recoverable Chromium	DUP	2017715-05	3.1540	2.7860		ug/L	12.4		20	J
	MS	2017715-05	3.1540	40.846	40.000	ug/L		94.2		70 - 130
	MSD	2017715-05	3.1540	41.445	40.000	ug/L	1.5	95.7	20	70 - 130
Total Recoverable Lead	DUP	2017715-05	ND	ND		ug/L			20	
	MS	2017715-05	ND	90.036	100.00	ug/L		90.0		70 - 130
	MSD	2017715-05	ND	87.801	100.00	ug/L	2.5	87.8	20	70 - 130

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

Reported: 07/01/2020 16:18
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Notes And Definitions

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

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Date of Report: 07/02/2020

David Conner

Tidewater Inc. - Powell

3761 Attucks Drive

Powell, OH 43065

Client Project: 2Q20

BCL Project: JPL- GW Monitoring Wells

BCL Work Order: 2017828

Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 6/19/2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda

Client Service Rep

Stuart Buttram

Technical Director

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

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Chain of Custody Form

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Required Fields

Report To: Tidewater, Inc.
 Client: David Conner
 Attn: David Conner
 Street Address: 3761 Altrucks Drive
 City: Powell State: OH Zip: 43065
 Phone: 626 1298 - 5715 Fax: 614 792 - 2897
 Email Address: david.conner@tidetw20.net
 Submission #: 20-17828

Project Description: JPL-GW Monitoring
 Project Code: 2020
 Sampler(s): Blaine Tech

Analysis Requested

PAHs, Phthalates, Phenols	
NDMA 1625M	
1,4 Dioxane 8270SM	
Orthophosphate 365.1	
CO ₃ , HCO ₃ , Alk., TDS, pH	
Cl, NO ₃ , NO ₂ , SO ₄ , Perch.	
Hexavalent Cr6 - 218.6 (mg/L)	
Na, Fe	
TRM: Cr, Pb, As, Ca, Mg, K	
VOCs EPA 524.2	X

Matrix

Sample #	Date	Time	Matrix*
-1	6/19/20	0900	L
-2	6/23-5	0900	
-3	6/23-4	0930	
-4	6/23-3	1000	
-5	6/23-2	1100	
-6	6/23-1	1200	
-7	6/23-2020	1300	
-8	6/23-2020	1400	
-9	6/23-2020	1345	
-10	6/23-2020	1415	
-11	6/23-2020	1445	

Notes

City: DISTRICTION
 Level: WTPS / ASD
 2020
 HOLDING TIME
 00 02 50.00 MBAS COT

Billing

Client: Tidewater
 Attn: David Conner
 Address: 3761 Altrucks Drive
 City: Powell State: OH Zip: 43065
 Are there any tests with holding times? less than or equal to 48 hours?
 Yes No
 *Standard Turnaround = 30

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

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

Lab TAT Approval: _____ *Additional Charges May Apply

Comments:

PLEASE NOTATE WHICH SAMPLES TO USE FOR 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: 6/19/20 Time: 1545
 2. Relinquished By: [Signature] Date: 6/19/20 Time: 1755
 3. Relinquished By: [Signature] Date: 6/19/20 Time: 1755

Global ID:

1. Received By: [Signature] Date: 6/19/20 Time: 1545
 2. Received By: [Signature] Date: 6/19/20 Time: 1755
 3. Received By: [Signature] Date: 6/19/20 Time: 1755

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

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

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 3 of 3

Submission #: 20-17828

SHIPPING INFORMATION: Fed Ex, UPS, Ontrac, Hand Delivery, BC Lab Field Service, Other. SHIPPING CONTAINER: Ice Chest, None, Box, Other. FREE LIQUID: YES, NO, W/S.

Refrigerant: Ice, Blue Ice, None, Other. Comments:

Custody Seals: Ice Chest, Containers, None. Intact? Yes/No.

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

COC Received: YES/NO. Emissivity: 0.95. Container: PE. Thermometer ID: 208. Date/Time: 6/19/15. Analyst Init: GSP. Temperature: (A) 0.7 °C / (C) 10.5 °C.

Table with columns for Sample Containers and Sample Numbers (1-10). Rows include various sample types like QT PE UNPRES, INORGANIC CHEMICAL METALS, etc.

Comments: Sample Numbering Completed By: GSP Date/Time: 6/19/15 Rev 21 05/23/2016



BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 of 3
 Submission #: 20-17828

SHIPPING INFORMATION: Fed Ex UPS Ontrac Hand Delivery BC Lab Field Service Other (Specify) _____
 SHIPPING CONTAINER: Ice Chest None Box Other (Specify) _____
 FREE LIQUID: YES NO W / S

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Intact? Yes No Intact? Yes No Comments: _____

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

COC Received: YES NO
 Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time: 6/19/15
 Temperature: (A) 2.3 °C / (C) 2.1 °C Analyst Init: GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES										
4oz / 8oz (16oz) PE UNPRES					N			F		F
2oz Cr ⁶⁺					JK			D		D
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz (16oz)					0			G		G
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A									
40ml VOA VIAL		ABC	ABC	ABC	AZE	ABC	ABC	ABC	ABC	ABC
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/509/5250										
QT EPA 515.1/5150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____
 Sample Numbering Completed By: GSP Date/Time: 6/19 1943
 A = Actual / C = Corrected



BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 Of 3

Submission #: 20-17828

SHIPPING INFORMATION: Fed Ex UPS Ontrac Hand Delivery BC Lab Field Service Other (Specify)

SHIPPING CONTAINER: Ice Chest None Box Other (Specify)

FREE LIQUID: YES NO W / S

Refrigerant: Ice Blue Ice None Other Comments:

Custody Seals: Ice Chest Containers None Comments:

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

COC Received: YES NO Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time: 6/19/15

Temperature: (A) 2.3 °C / (C) 2.1 °C Analyst Init: GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES	E	E	E							
4oz / 8oz / 16oz PE UNPRES	F	F	F							
2oz Cr ⁶	D	D	D							
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz	G	G	G							
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PGA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	ABC	ABC	ABC							
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL-504										
QT EPA 508/509/5080										
QT EPA 515.1/5150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 5270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TRDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____

Sample Numbering Completed By: GSP Date/Time: 6/19/15 Rev 21 05/23/2016

1 = Actual / C = Corrected

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

Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2017828-01	COC Number: --- Project Number: JPL/GW Monitoring Sampling Location: --- Sampling Point: TB-9-061920 Sampled By: Blaine Tech of BTST	Receive Date: 06/19/2020 17:55 Sampling Date: 06/19/2020 08:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-9-061920 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

2017828-02	COC Number: --- Project Number: JPL/GW Monitoring Sampling Location: --- Sampling Point: MW-23-5 Sampled By: Blaine Tech of BTST	Receive Date: 06/19/2020 17:55 Sampling Date: 06/19/2020 09:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-23-5 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

2017828-03	COC Number: --- Project Number: JPL/GW Monitoring Sampling Location: --- Sampling Point: MW-23-4 Sampled By: Blaine Tech of BTST	Receive Date: 06/19/2020 17:55 Sampling Date: 06/19/2020 09:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-23-4 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

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

Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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2017828-04	COC Number: --- Project Number: JPL/GW Monitoring Sampling Location: --- Sampling Point: MW-23-3 Sampled By: Blaine Tech of BTST	Receive Date: 06/19/2020 17:55 Sampling Date: 06/19/2020 10:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-23-3 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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2017828-05	COC Number: --- Project Number: JPL/GW Monitoring Sampling Location: --- Sampling Point: MW-23-2 Sampled By: Blaine Tech of BTST	Receive Date: 06/19/2020 17:55 Sampling Date: 06/19/2020 01:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-23-2 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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2017828-06	COC Number: --- Project Number: JPL/GW Monitoring Sampling Location: --- Sampling Point: MW-23-1 Sampled By: Blaine Tech of BTST	Receive Date: 06/19/2020 17:55 Sampling Date: 06/19/2020 12:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-23-1 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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3761 Attucks Drive
Powell, OH 43065

Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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2017828-07	COC Number: --- Project Number: JPL/GW Monitoring Sampling Location: --- Sampling Point: Dup-3-2Q2020 Sampled By: Blaine Tech of BTST	Receive Date: 06/19/2020 17:55 Sampling Date: 06/19/2020 10:20 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): Dup-3-2Q2020 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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2017828-08	COC Number: --- Project Number: JPL/GW Monitoring Sampling Location: --- Sampling Point: EB-9-061920 Sampled By: Blaine Tech of BTST	Receive Date: 06/19/2020 17:55 Sampling Date: 06/19/2020 14:20 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-9-061920 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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2017828-09	COC Number: --- Project Number: JPL/GW Monitoring Sampling Location: --- Sampling Point: MW-12-3 Sampled By: Blaine Tech of BTST	Receive Date: 06/19/2020 17:55 Sampling Date: 06/19/2020 13:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-12-3 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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2017828-10	COC Number: --- Project Number: JPL/GW Monitoring Sampling Location: --- Sampling Point: Dup-4-2Q2020 Sampled By: Blaine Tech of BTST	Receive Date: 06/19/2020 17:55 Sampling Date: 06/19/2020 14:15 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): Dup-4-2Q2020 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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2017828-11	COC Number: --- Project Number: JPL/GW Monitoring Sampling Location: --- Sampling Point: MW-12-2 Sampled By: Blaine Tech of BTST	Receive Date: 06/19/2020 17:55 Sampling Date: 06/19/2020 14:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-12-2 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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2017828-12	COC Number: --- Project Number: JPL/GW Monitoring Sampling Location: --- Sampling Point: MW-12-1 Sampled By: Blaine Tech of BTST	Receive Date: 06/19/2020 17:55 Sampling Date: 06/19/2020 15:15 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-12-1 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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2017828-13	COC Number: ---	Receive Date: 06/19/2020 17:55
	Project Number: JPL/GW Monitoring	Sampling Date: 06/19/2020 15:30
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: SB-2-061920	Lab Matrix: Water
	Sampled By: Blaine Tech of BTST	Sample Type: Water
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): SB-2-061920
		Matrix: WG
		Sample QC Type (SACode): CS
		Cooler ID:

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017828-01	Client Sample Name: JPL/GW Monitoring, TB-9-061920, 6/19/2020 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017828-01	Client Sample Name: JPL/GW Monitoring, TB-9-061920, 6/19/2020 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	20	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	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: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017828-01	Client Sample Name: JPL/GW Monitoring, TB-9-061920, 6/19/2020 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	117	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/22/20 19:52	MGC	MS-V5	1	B080718	EPA 524.2

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Powell, OH 43065

Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017828-01	Client Sample Name: JPL/GW Monitoring, TB-9-061920, 6/19/2020 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/22/20	19:52	MGC	MS-V5	1	B080718	EPA 524.2

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2017828-02	Client Sample Name:	JPL/GW Monitoring, MW-23-5, 6/19/2020 9:00:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1	
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1	
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1	
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1	
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1	
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1	
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017828-02	Client Sample Name: JPL/GW Monitoring, MW-23-5, 6/19/2020 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	0.29	ug/L	0.50	0.12	EPA-524.2	ND	J	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc. - Powell
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Powell, OH 43065

Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017828-02	Client Sample Name: JPL/GW Monitoring, MW-23-5, 6/19/2020 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	116	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/22/20 20:16	MGC	MS-V5	1	B080718	EPA 524.2

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017828-02	Client Sample Name: JPL/GW Monitoring, MW-23-5, 6/19/2020 9:00:00AM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/22/20	20:16	MGC	MS-V5	1	B080718	EPA 524.2

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017828-02	Client Sample Name: JPL/GW Monitoring, MW-23-5, 6/19/2020 9:00:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000039	mg/L	0.00020	0.000032	EPA-218.6	ND	J	1
Total Recoverable Arsenic	2.0	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	110	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	0.11	ug/L	1.0	0.10	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/23/20 14:00	06/23/20	20:47	KB1	IC-4	1	B080860	No Prep
2	EPA-200.8	06/23/20 19:15	06/24/20	11:17	JNC	PE-EL4	1	B080882	EPA 200.2
3	EPA-200.7	06/23/20 19:00	06/24/20	12:37	JRG	PE-OP4	1	B080880	EPA 200.2

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2017828-03	Client Sample Name:	JPL/GW Monitoring, MW-23-4, 6/19/2020 9:30:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1	
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1	
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1	
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1	
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1	
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1	
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	

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Powell, OH 43065

Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017828-03		Client Sample Name: JPL/GW Monitoring, MW-23-4, 6/19/2020 9:30:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	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	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	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: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017828-03	Client Sample Name: JPL/GW Monitoring, MW-23-4, 6/19/2020 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	118	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/22/20 20:40	MGC	MS-V5	1	B080718	EPA 524.2

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017828-03	Client Sample Name: JPL/GW Monitoring, MW-23-4, 6/19/2020 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/22/20	20:40	MGC	MS-V5	1	B080718	EPA 524.2

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2017828-03		Client Sample Name: JPL/GW Monitoring, MW-23-4, 6/19/2020 9:30:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	37	mg/L	0.10	0.014	EPA-200.7	0.015		1	
Total Recoverable Magnesium	11	mg/L	0.050	0.019	EPA-200.7	0.023		1	
Total Recoverable Sodium	28	mg/L	0.50	0.051	EPA-200.7	0.051		1	
Total Recoverable Potassium	1.7	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	170	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	140	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	20	mg/L	0.50	0.13	EPA-300.0	0.14		3	
Nitrate as N	7.3	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	9.9	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	7.94	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	270	mg/L	20	10	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	1.8	ug/L	4.0	0.81	EPA-314.0	ND	J	7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/23/20 19:00	06/24/20	12:40	JRG	PE-OP4	1	B080880	EPA 200.2
2	SM-2320B	06/23/20 12:00	06/23/20	14:36	MEV	MET-1	1	B067984	No Prep
3	EPA-300.0	06/19/20 21:00	06/20/20	00:16	KB1	IC5	1	B080669	No Prep
4	EPA-150.1	06/23/20 12:00	06/23/20	14:36	MEV	MET-1	1	B067984	No Prep
5	EPA-160.1	06/24/20 14:00	06/24/20	14:00	CAD	MANUAL	2	B080929	No Prep
6	EPA-353.2	06/19/20 20:00	06/19/20	20:44	CMM	KONE-1	1	B080732	No Prep
7	EPA-314.0	06/30/20 09:00	06/30/20	11:38	SAV	IC6	1	B081298	No Prep

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3761 Attucks Drive
Powell, OH 43065

Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017828-03	Client Sample Name: JPL/GW Monitoring, MW-23-4, 6/19/2020 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0026	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	1.7	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	3.4	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	50	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/23/20 14:00	06/23/20	20:57	KB1	IC-4	1	B080860	No Prep
2	EPA-200.8	06/24/20 19:40	06/25/20	09:14	ARD	PE-EL2	1	B080967	EPA 200.2
3	EPA-200.7	06/23/20 19:00	06/24/20	12:40	JRG	PE-OP4	1	B080880	EPA 200.2

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2017828-04	Client Sample Name:	JPL/GW Monitoring, MW-23-3, 6/19/2020 10:00:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1	
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1	
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1	
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1	
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1	
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1	
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017828-04	Client Sample Name: JPL/GW Monitoring, MW-23-3, 6/19/2020 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
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	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	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: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017828-04	Client Sample Name: JPL/GW Monitoring, MW-23-3, 6/19/2020 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	117	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/22/20 21:04	MGC	MS-V5	1	B080718	EPA 524.2

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017828-04	Client Sample Name: JPL/GW Monitoring, MW-23-3, 6/19/2020 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/22/20	21:04	MGC	MS-V5	1	B080718	EPA 524.2

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017828-04	Client Sample Name: JPL/GW Monitoring, MW-23-3, 6/19/2020 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0023	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	3.2	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	120	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/23/20 14:00	06/23/20	21:06	KB1	IC-4	1	B080860	No Prep
2	EPA-200.8	06/24/20 19:40	06/25/20	08:53	ARD	PE-EL2	1	B080967	EPA 200.2
3	EPA-200.7	06/23/20 19:00	06/24/20	13:39	JRG	PE-OP4	1	B080881	EPA 200.2

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2017828-05) and Client Sample Name (JPL/GW Monitoring, MW-23-2, 6/19/2020 1:00:00AM, Blaine Tech)

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

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017828-05	Client Sample Name: JPL/GW Monitoring, MW-23-2, 6/19/2020 1:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	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	1.0	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	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: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017828-05	Client Sample Name: JPL/GW Monitoring, MW-23-2, 6/19/2020 1:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01,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)	115	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/23/20 01:05	MGC	MS-V5	1	B080718	EPA 524.2

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Powell, OH 43065

Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017828-05	Client Sample Name: JPL/GW Monitoring, MW-23-2, 6/19/2020 1:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/23/20	01:05	MGC	MS-V5	1	B080718	EPA 524.2

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2017828-05		Client Sample Name: JPL/GW Monitoring, MW-23-2, 6/19/2020 1:00:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	140	mg/L	0.10	0.014	EPA-200.7	ND		1	
Total Recoverable Magnesium	46	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	35	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	2.6	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	280	mg/L	10	10	SM-2320B	ND	A07	2	
Carbonate	ND	mg/L	5.0	5.0	SM-2320B	ND	A07	2	
Total Alkalinity as CaCO3	230	mg/L	8.2	8.2	SM-2320B	ND	A07	2	
Chloride	110	mg/L	0.50	0.13	EPA-300.0	0.14		3	
Nitrate as N	13	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	170	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	7.80	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	820	mg/L	50	25	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	3.7	ug/L	4.0	0.81	EPA-314.0	ND	J	7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/23/20 19:00	06/24/20 13:25		JRG	PE-OP4	1	B080881	EPA 200.2
2	SM-2320B	06/23/20 12:00	06/23/20 14:16		MEV	MET-1	2	B067984	No Prep
3	EPA-300.0	06/19/20 21:00	06/19/20 22:46		KB1	IC5	1	B080669	No Prep
4	EPA-150.1	06/23/20 12:00	06/23/20 14:16		MEV	MET-1	1	B067984	No Prep
5	EPA-160.1	06/24/20 14:00	06/24/20 14:00		CAD	MANUAL	5	B080929	No Prep
6	EPA-353.2	06/19/20 20:00	06/19/20 20:44		CMM	KONE-1	1	B080733	No Prep
7	EPA-314.0	06/30/20 09:00	06/30/20 12:11		SAV	IC6	1	B081298	No Prep

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017828-05	Client Sample Name: JPL/GW Monitoring, MW-23-2, 6/19/2020 1:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00094	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	1.2	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	95	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/23/20 14:00	06/23/20	19:40	KB1	IC-4	1	B080860	No Prep
2	EPA-200.8	06/24/20 19:40	06/25/20	08:35	ARD	PE-EL2	1	B080967	EPA 200.2
3	EPA-200.7	06/23/20 19:00	06/24/20	13:25	JRG	PE-OP4	1	B080881	EPA 200.2

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2017828-06) and Client Sample Name (JPL/GW Monitoring, MW-23-1, 6/19/2020 12:00:00PM, Blaine Tech)

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

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017828-06	Client Sample Name: JPL/GW Monitoring, MW-23-1, 6/19/2020 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	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: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017828-06	Client Sample Name: JPL/GW Monitoring, MW-23-1, 6/19/2020 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	119	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	95.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/22/20 21:28	MGC	MS-V5	1	B080718	EPA 524.2

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017828-06	Client Sample Name: JPL/GW Monitoring, MW-23-1, 6/19/2020 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/22/20	21:28	MGC	MS-V5	1	B080718	EPA 524.2

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2017828-06		Client Sample Name: JPL/GW Monitoring, MW-23-1, 6/19/2020 12:00:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	70	mg/L	0.10	0.014	EPA-200.7	ND		1
Total Recoverable Magnesium	23	mg/L	0.050	0.019	EPA-200.7	ND		1
Total Recoverable Sodium	27	mg/L	0.50	0.051	EPA-200.7	ND		1
Total Recoverable Potassium	2.0	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	280	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	230	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	15	mg/L	0.50	0.13	EPA-300.0	0.14		3
Nitrate as N	4.8	mg/L	0.10	0.024	EPA-300.0	ND		3
Sulfate	43	mg/L	1.0	0.14	EPA-300.0	ND		3
pH	7.49	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	400	mg/L	20	10	EPA-160.1	ND	A07	5
Nitrite as N	0.025	mg/L	0.050	0.010	EPA-353.2	ND	J	6
Perchlorate	1.8	ug/L	4.0	0.81	EPA-314.0	ND	J	7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/23/20 19:00	06/24/20	13:45	JRG	PE-OP4	1	B080881	EPA 200.2
2	SM-2320B	06/23/20 12:00	06/23/20	14:51	MEV	MET-1	1	B067984	No Prep
3	EPA-300.0	06/19/20 21:00	06/20/20	00:51	KB1	IC5	1	B080669	No Prep
4	EPA-150.1	06/23/20 12:00	06/23/20	14:51	MEV	MET-1	1	B067984	No Prep
5	EPA-160.1	06/24/20 14:00	06/24/20	14:00	CAD	MANUAL	2	B080929	No Prep
6	EPA-353.2	06/19/20 20:00	06/19/20	20:44	CMM	KONE-1	1	B080733	No Prep
7	EPA-314.0	06/30/20 09:00	06/30/20	15:34	KB1	IC6	1	B081298	No Prep

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017828-06	Client Sample Name: JPL/GW Monitoring, MW-23-1, 6/19/2020 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00058	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	1.4	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	120	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/23/20 14:00	06/23/20	21:16	KB1	IC-4	1	B080860	No Prep
2	EPA-200.8	06/24/20 19:40	06/25/20	08:55	ARD	PE-EL2	1	B080967	EPA 200.2
3	EPA-200.7	06/23/20 19:00	06/24/20	13:45	JRG	PE-OP4	1	B080881	EPA 200.2

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017828-07	Client Sample Name: JPL/GW Monitoring, Dup-3-2Q2020, 6/19/2020 10:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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

Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017828-07	Client Sample Name: JPL/GW Monitoring, Dup-3-2Q2020, 6/19/2020 10:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	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: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017828-07	Client Sample Name: JPL/GW Monitoring, Dup-3-2Q2020, 6/19/2020 10:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	116	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/22/20 21:52	MGC	MS-V5	1	B080718	EPA 524.2

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017828-07	Client Sample Name: JPL/GW Monitoring, Dup-3-2Q2020, 6/19/2020 10:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/22/20	21:52	MGC	MS-V5	1	B080718	EPA 524.2

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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Powell, OH 43065

Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017828-07	Client Sample Name: JPL/GW Monitoring, Dup-3-2Q2020, 6/19/2020 10:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0029	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	1.0	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	3.5	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	130	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/23/20 14:00	06/23/20	21:26	KB1	IC-4	1	B080860	No Prep
2	EPA-200.8	06/24/20 19:40	06/25/20	08:57	ARD	PE-EL2	1	B080967	EPA 200.2
3	EPA-200.7	06/23/20 19:00	06/24/20	13:47	JRG	PE-OP4	1	B080881	EPA 200.2

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017828-08	Client Sample Name: JPL/GW Monitoring, EB-9-061920, 6/19/2020 2:20:00PM, Blaine Tech
----------------------------------	---

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

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Powell, OH 43065

Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017828-08	Client Sample Name: JPL/GW Monitoring, EB-9-061920, 6/19/2020 2:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	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: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017828-08	Client Sample Name: JPL/GW Monitoring, EB-9-061920, 6/19/2020 2:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	114	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/23/20 03:28	MGC	MS-V5	1	B080718	EPA 524.2

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017828-08	Client Sample Name: JPL/GW Monitoring, EB-9-061920, 6/19/2020 2:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/23/20	03:28	MGC	MS-V5	1	B080718	EPA 524.2

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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Powell, OH 43065

Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017828-08	Client Sample Name: JPL/GW Monitoring, EB-9-061920, 6/19/2020 2:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000032	mg/L	0.00020	0.000032	EPA-218.6	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	0.60	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-218.6	06/23/20 14:00	06/23/20 21:35	KB1	IC-4	1	B080860	No Prep
2	EPA-200.8	06/24/20 19:40	06/25/20 08:59	ARD	PE-EL2	1	B080967	EPA 200.2
3	EPA-200.7	06/23/20 19:00	06/24/20 13:49	JRG	PE-OP4	1	B080881	EPA 200.2

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017828-09	Client Sample Name: JPL/GW Monitoring, MW-12-3, 6/19/2020 1:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	1.4	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.86	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: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2017828-09	Client Sample Name:	JPL/GW Monitoring, MW-12-3, 6/19/2020 1:45:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1	
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1	
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1	
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
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	10	9.4	EPA-524.2	ND		1	
Carbon disulfide	ND	ug/L	1.0	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: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017828-09	Client Sample Name: JPL/GW Monitoring, MW-12-3, 6/19/2020 1:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	116	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/23/20 03:52	MGC	MS-V5	1	B080718	EPA 524.2

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017828-09	Client Sample Name: JPL/GW Monitoring, MW-12-3, 6/19/2020 1:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/23/20	03:52	MGC	MS-V5	1	B080718	EPA 524.2

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2017828-09		Client Sample Name: JPL/GW Monitoring, MW-12-3, 6/19/2020 1:45:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	60	mg/L	0.10	0.014	EPA-200.7	ND		1	
Total Recoverable Magnesium	15	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	26	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	2.6	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	240	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	190	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	15	mg/L	0.50	0.13	EPA-300.0	0.14		3	
Nitrate as N	1.3	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	35	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	8.09	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	320	mg/L	20	10	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	4.0	ug/L	4.0	0.81	EPA-314.0	ND		7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/23/20 19:00	06/24/20	13:51	JRG	PE-OP4	1	B080881	EPA 200.2
2	SM-2320B	06/23/20 12:00	06/23/20	15:13	MEV	MET-1	1	B067984	No Prep
3	EPA-300.0	06/19/20 21:00	06/20/20	02:21	KB1	IC5	1	B080669	No Prep
4	EPA-150.1	06/23/20 12:00	06/23/20	15:13	MEV	MET-1	1	B067984	No Prep
5	EPA-160.1	06/24/20 14:00	06/24/20	14:00	CAD	MANUAL	2	B080929	No Prep
6	EPA-353.2	06/19/20 20:00	06/19/20	20:48	CMM	KONE-1	1	B080733	No Prep
7	EPA-314.0	06/30/20 09:00	07/01/20	07:12	SAV	IC6	1	B081298	No Prep

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017828-09	Client Sample Name: JPL/GW Monitoring, MW-12-3, 6/19/2020 1:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00051	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	1.7	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	1.0	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/23/20 14:00	06/23/20	21:45	KB1	IC-4	1	B080860	No Prep
2	EPA-200.8	06/24/20 19:40	06/25/20	09:00	ARD	PE-EL2	1	B080967	EPA 200.2
3	EPA-200.7	06/23/20 19:00	06/24/20	13:51	JRG	PE-OP4	1	B080881	EPA 200.2

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017828-10	Client Sample Name: JPL/GW Monitoring, Dup-4-2Q2020, 6/19/2020 2:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	1.2	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.84	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: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017828-10	Client Sample Name: JPL/GW Monitoring, Dup-4-2Q2020, 6/19/2020 2:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	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: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017828-10	Client Sample Name: JPL/GW Monitoring, Dup-4-2Q2020, 6/19/2020 2:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	113	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/23/20 04:16	MGC	MS-V5	1	B080718	EPA 524.2

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Tidewater Inc. - Powell
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Powell, OH 43065

Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017828-10	Client Sample Name: JPL/GW Monitoring, Dup-4-2Q2020, 6/19/2020 2:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/23/20	04:16	MGC	MS-V5	1	B080718	EPA 524.2

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2017828-10		Client Sample Name: JPL/GW Monitoring, Dup-4-2Q2020, 6/19/2020 2:15:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	58	mg/L	0.10	0.014	EPA-200.7	ND		1
Total Recoverable Magnesium	15	mg/L	0.050	0.019	EPA-200.7	ND		1
Total Recoverable Sodium	26	mg/L	0.50	0.051	EPA-200.7	ND		1
Total Recoverable Potassium	2.7	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	230	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	190	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	15	mg/L	0.50	0.13	EPA-300.0	0.14		3
Nitrate as N	1.3	mg/L	0.10	0.024	EPA-300.0	ND		3
Sulfate	35	mg/L	1.0	0.14	EPA-300.0	ND		3
pH	8.02	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	320	mg/L	20	10	EPA-160.1	ND	A07	5
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6
Perchlorate	4.4	ug/L	4.0	0.81	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/23/20 19:00	06/24/20	13:53	JRG	PE-OP4	1	B080881	EPA 200.2
2	SM-2320B	06/23/20 12:00	06/23/20	15:20	MEV	MET-1	1	B067984	No Prep
3	EPA-300.0	06/19/20 21:00	06/20/20	02:39	KB1	IC5	1	B080669	No Prep
4	EPA-150.1	06/23/20 12:00	06/23/20	15:20	MEV	MET-1	1	B067984	No Prep
5	EPA-160.1	06/24/20 14:00	06/24/20	14:00	CAD	MANUAL	2	B080929	No Prep
6	EPA-353.2	06/19/20 20:00	06/19/20	20:48	CMM	KONE-1	1	B080733	No Prep
7	EPA-314.0	06/30/20 09:00	06/30/20	16:40	KB1	IC6	1	B081298	No Prep

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Powell, OH 43065

Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017828-10	Client Sample Name: JPL/GW Monitoring, Dup-4-2Q2020, 6/19/2020 2:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00054	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	1.9	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	1.4	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	35	ug/L	50	30	EPA-200.7	ND	J	3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/23/20 14:00	06/23/20	21:54	KB1	IC-4	1	B080860	No Prep
2	EPA-200.8	06/24/20 19:40	06/25/20	09:02	ARD	PE-EL2	1	B080967	EPA 200.2
3	EPA-200.7	06/23/20 19:00	06/24/20	13:53	JRG	PE-OP4	1	B080881	EPA 200.2

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017828-11	Client Sample Name: JPL/GW Monitoring, MW-12-2, 6/19/2020 2:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
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: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2017828-11) and Client Sample Name (JPL/GW Monitoring, MW-12-2, 6/19/2020 2:45:00PM, Blaine Tech)

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

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017828-11	Client Sample Name: JPL/GW Monitoring, MW-12-2, 6/19/2020 2:45:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	114	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/23/20 04:40	MGC	MS-V5	1	B080718	EPA 524.2

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017828-11	Client Sample Name: JPL/GW Monitoring, MW-12-2, 6/19/2020 2:45:00PM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/23/20	04:40	MGC	MS-V5	1	B080718	EPA 524.2

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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Powell, OH 43065

Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017828-11	Client Sample Name: JPL/GW Monitoring, MW-12-2, 6/19/2020 2:45:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000083	mg/L	0.00020	0.000032	EPA-218.6	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	1.7	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	780	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/23/20 14:00	06/23/20	22:04	KB1	IC-4	1	B080860	No Prep
2	EPA-200.8	06/24/20 19:40	06/25/20	09:04	ARD	PE-EL2	1	B080967	EPA 200.2
3	EPA-200.7	06/23/20 19:00	06/24/20	13:56	JRG	PE-OP4	1	B080881	EPA 200.2

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

Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017828-12	Client Sample Name: JPL/GW Monitoring, MW-12-1, 6/19/2020 3:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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

Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017828-12	Client Sample Name: JPL/GW Monitoring, MW-12-1, 6/19/2020 3:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	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: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017828-12	Client Sample Name: JPL/GW Monitoring, MW-12-1, 6/19/2020 3:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01,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)	119	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/23/20 05:04	MGC	MS-V5	1	B080718	EPA 524.2

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3761 Attucks Drive
Powell, OH 43065

Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017828-12	Client Sample Name: JPL/GW Monitoring, MW-12-1, 6/19/2020 3:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/23/20	05:04	MGC	MS-V5	1	B080718	EPA 524.2

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3761 Attucks Drive
Powell, OH 43065

Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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Tidewater Inc. - Powell
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Powell, OH 43065

Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017828-12	Client Sample Name: JPL/GW Monitoring, MW-12-1, 6/19/2020 3:15:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00077	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	0.79	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	1.6	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	110	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/23/20 14:00	06/24/20 00:02		SAV	IC-4	1	B080862	No Prep
2	EPA-200.8	06/24/20 19:40	06/25/20 09:06		ARD	PE-EL2	1	B080967	EPA 200.2
3	EPA-200.7	06/23/20 19:00	06/24/20 13:58		JRG	PE-OP4	1	B080881	EPA 200.2

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Powell, OH 43065

Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017828-13	Client Sample Name: JPL/GW Monitoring, SB-2-061920, 6/19/2020 3:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2017828-13	Client Sample Name:	JPL/GW Monitoring, SB-2-061920, 6/19/2020 3:30:00PM, Blaine Tech					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	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: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017828-13	Client Sample Name: JPL/GW Monitoring, SB-2-061920, 6/19/2020 3:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	114	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/23/20 05:28	MGC	MS-V5	1	B080718	EPA 524.2

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Powell, OH 43065

Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017828-13	Client Sample Name: JPL/GW Monitoring, SB-2-061920, 6/19/2020 3:30:00PM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/22/20 08:00	06/23/20	05:28	MGC	MS-V5	1	B080718	EPA 524.2

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017828-13	Client Sample Name: JPL/GW Monitoring, SB-2-061920, 6/19/2020 3:30:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000056	mg/L	0.00020	0.000032	EPA-218.6	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/23/20 14:00	06/24/20	00:11	SAV	IC-4	1	B080862	No Prep
2	EPA-200.8	06/24/20 19:40	06/25/20	08:26	ARD	PE-EL4	1	B080968	EPA 200.2
3	EPA-200.7	06/23/20 19:00	06/24/20	14:00	JRG	PE-OP4	1	B080881	EPA 200.2

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080718						
Benzene	B080718-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B080718-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B080718-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B080718-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B080718-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B080718-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B080718-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B080718-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B080718-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B080718-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B080718-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B080718-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B080718-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B080718-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B080718-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B080718-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B080718-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B080718-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B080718-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B080718-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B080718-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B080718-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B080718-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B080718-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B080718-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B080718-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B080718-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B080718-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B080718-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B080718-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B080718-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B080718-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B080718-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B080718-BLK1	ND	ug/L	0.50	0.14	

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080718						
trans-1,3-Dichloropropene	B080718-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B080718-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B080718-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B080718-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B080718-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B080718-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B080718-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B080718-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B080718-BLK1	ND	ug/L	0.50	0.12	
Styrene	B080718-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B080718-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2,2-Tetrachloroethane	B080718-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B080718-BLK1	ND	ug/L	0.50	0.23	
Toluene	B080718-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B080718-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B080718-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B080718-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B080718-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B080718-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B080718-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B080718-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B080718-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B080718-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B080718-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B080718-BLK1	ND	ug/L	0.50	0.18	
Acetone	B080718-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B080718-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B080718-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B080718-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B080718-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	B080718-BLK1	ND	ug/L	1.0	0.48	
trans-1,4-Dichloro-2-butene	B080718-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B080718-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B080718-BLK1	ND	ug/L	4.0	1.3	

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080718						
Ethyl t-butyl ether	B080718-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B080718-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B080718-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B080718-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B080718-BLK1	ND	ug/L	10	3.3	
Methyl iodide	B080718-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B080718-BLK1	ND	ug/L	10	2.4	
Methyl methacrylate	B080718-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B080718-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B080718-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B080718-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B080718-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B080718-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B080718-BLK1	112	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B080718-BLK1	97.6	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B080718-BLK1	102	%	80 - 120 (LCL - UCL)		

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B080718										
Benzene	B080718-BS1	LCS	27.710	25.000	ug/L	111		70 - 130		
Bromodichloromethane	B080718-BS1	LCS	30.240	25.000	ug/L	121		70 - 130		
Chlorobenzene	B080718-BS1	LCS	25.160	25.000	ug/L	101		70 - 130		
Chloroethane	B080718-BS1	LCS	28.170	25.000	ug/L	113		70 - 130		
1,4-Dichlorobenzene	B080718-BS1	LCS	24.740	25.000	ug/L	99.0		70 - 130		
1,1-Dichloroethane	B080718-BS1	LCS	28.950	25.000	ug/L	116		70 - 130		
1,1-Dichloroethene	B080718-BS1	LCS	29.520	25.000	ug/L	118		70 - 130		
Toluene	B080718-BS1	LCS	25.820	25.000	ug/L	103		70 - 130		
Trichloroethene	B080718-BS1	LCS	29.770	25.000	ug/L	119		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B080718-BS1	LCS	11.640	10.000	ug/L	116		75 - 125		
Toluene-d8 (Surrogate)	B080718-BS1	LCS	9.7000	10.000	ug/L	97.0		80 - 120		
4-Bromofluorobenzene (Surrogate)	B080718-BS1	LCS	10.250	10.000	ug/L	102		80 - 120		

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B080718		Used client sample: Y - Description: MW-23-2, 06/19/2020 01:00								
Benzene	MS	2017828-05	ND	28.880	25.000	ug/L		116		70 - 130
	MSD	2017828-05	ND	28.550	25.000	ug/L	1.1	114	20	70 - 130
Bromodichloromethane	MS	2017828-05	ND	30.800	25.000	ug/L		123		70 - 130
	MSD	2017828-05	ND	31.150	25.000	ug/L	1.1	125	20	70 - 130
Chlorobenzene	MS	2017828-05	ND	25.030	25.000	ug/L		100		70 - 130
	MSD	2017828-05	ND	25.070	25.000	ug/L	0.2	100	20	70 - 130
Chloroethane	MS	2017828-05	ND	28.700	25.000	ug/L		115		70 - 130
	MSD	2017828-05	ND	29.440	25.000	ug/L	2.5	118	20	70 - 130
1,4-Dichlorobenzene	MS	2017828-05	ND	25.070	25.000	ug/L		100		70 - 130
	MSD	2017828-05	ND	24.690	25.000	ug/L	1.5	98.8	20	70 - 130
1,1-Dichloroethane	MS	2017828-05	ND	30.870	25.000	ug/L		123		70 - 130
	MSD	2017828-05	ND	30.560	25.000	ug/L	1.0	122	20	70 - 130
1,1-Dichloroethene	MS	2017828-05	ND	30.810	25.000	ug/L		123		70 - 130
	MSD	2017828-05	ND	30.830	25.000	ug/L	0.1	123	20	70 - 130
Toluene	MS	2017828-05	ND	25.850	25.000	ug/L		103		70 - 130
	MSD	2017828-05	ND	26.080	25.000	ug/L	0.9	104	20	70 - 130
Trichloroethene	MS	2017828-05	1.0300	28.690	25.000	ug/L		111		70 - 130
	MSD	2017828-05	1.0300	28.990	25.000	ug/L	1.0	112	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	2017828-05	ND	11.960	10.000	ug/L		120		75 - 125
	MSD	2017828-05	ND	11.290	10.000	ug/L	5.8	113		75 - 125
Toluene-d8 (Surrogate)	MS	2017828-05	ND	9.6600	10.000	ug/L		96.6		80 - 120
	MSD	2017828-05	ND	9.6000	10.000	ug/L	0.6	96.0		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	2017828-05	ND	9.8700	10.000	ug/L		98.7		80 - 120
	MSD	2017828-05	ND	9.8600	10.000	ug/L	0.1	98.6		80 - 120

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080718						
Chloroacetonitrile	B080718-BLK1	0	ug/L			
1-Chlorobutane	B080718-BLK1	0	ug/L			
1,1-Dichloropropanone	B080718-BLK1	0	ug/L			
Methyl acrylate	B080718-BLK1	0	ug/L			
Nitrobenzene	B080718-BLK1	0	ug/L			
2-Nitropropane	B080718-BLK1	0	ug/L			

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Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B067984						
Bicarbonate	B067984-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B067984-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B067984-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: B067985						
Bicarbonate	B067985-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B067985-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B067985-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: B080669						
Chloride	B080669-BLK1	0.14200	mg/L	0.50	0.13	J
Nitrate as N	B080669-BLK1	ND	mg/L	0.10	0.024	
Sulfate	B080669-BLK1	ND	mg/L	1.0	0.14	
QC Batch ID: B080688						
Chloride	B080688-BLK1	0.20200	mg/L	0.50	0.13	J
Nitrate as N	B080688-BLK1	ND	mg/L	0.10	0.024	
Sulfate	B080688-BLK1	0.25600	mg/L	1.0	0.14	J
QC Batch ID: B080732						
Nitrite as N	B080732-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: B080733						
Nitrite as N	B080733-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: B080880						
Total Recoverable Calcium	B080880-BLK1	0.014790	mg/L	0.10	0.014	J
Total Recoverable Magnesium	B080880-BLK1	0.022945	mg/L	0.050	0.019	J
Total Recoverable Sodium	B080880-BLK1	0.051150	mg/L	0.50	0.051	J
Total Recoverable Potassium	B080880-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: B080881						
Total Recoverable Calcium	B080881-BLK1	ND	mg/L	0.10	0.014	
Total Recoverable Magnesium	B080881-BLK1	ND	mg/L	0.050	0.019	
Total Recoverable Sodium	B080881-BLK1	ND	mg/L	0.50	0.051	
Total Recoverable Potassium	B080881-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: B080928						
Total Dissolved Solids @ 180 C	B080928-BLK1	ND	mg/L	6.7	3.3	

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

Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080929						
Total Dissolved Solids @ 180 C	B080929-BLK1	ND	mg/L	6.7	3.3	
QC Batch ID: B081298						
Perchlorate	B081298-BLK1	ND	ug/L	4.0	0.81	

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

Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: B067984										
Total Alkalinity as CaCO3	B067984-BS3	LCS	100.71	100.00	mg/L	101		90 - 110		
pH	B067984-BS2	LCS	6.9800	7.0000	pH Units	99.7		95 - 105		
QC Batch ID: B067985										
Total Alkalinity as CaCO3	B067985-BS3	LCS	98.130	100.00	mg/L	98.1		90 - 110		
pH	B067985-BS2	LCS	6.9800	7.0000	pH Units	99.7		95 - 105		
QC Batch ID: B080669										
Chloride	B080669-BS1	LCS	53.407	50.000	mg/L	107		90 - 110		
Nitrate as N	B080669-BS1	LCS	5.3230	5.0000	mg/L	106		90 - 110		
Sulfate	B080669-BS1	LCS	106.02	100.00	mg/L	106		90 - 110		
QC Batch ID: B080688										
Chloride	B080688-BS1	LCS	53.143	50.000	mg/L	106		90 - 110		
Nitrate as N	B080688-BS1	LCS	5.2680	5.0000	mg/L	105		90 - 110		
Sulfate	B080688-BS1	LCS	105.93	100.00	mg/L	106		90 - 110		
QC Batch ID: B080732										
Nitrite as N	B080732-BS1	LCS	0.50667	0.50000	mg/L	101		90 - 110		
QC Batch ID: B080733										
Nitrite as N	B080733-BS1	LCS	0.50421	0.50000	mg/L	101		90 - 110		
QC Batch ID: B080880										
Total Recoverable Calcium	B080880-BS1	LCS	10.437	10.000	mg/L	104		85 - 115		
Total Recoverable Magnesium	B080880-BS1	LCS	10.146	10.000	mg/L	101		85 - 115		
Total Recoverable Sodium	B080880-BS1	LCS	10.149	10.000	mg/L	101		85 - 115		
Total Recoverable Potassium	B080880-BS1	LCS	9.6528	10.000	mg/L	96.5		85 - 115		
QC Batch ID: B080881										
Total Recoverable Calcium	B080881-BS1	LCS	10.180	10.000	mg/L	102		85 - 115		
Total Recoverable Magnesium	B080881-BS1	LCS	10.111	10.000	mg/L	101		85 - 115		
Total Recoverable Sodium	B080881-BS1	LCS	10.132	10.000	mg/L	101		85 - 115		
Total Recoverable Potassium	B080881-BS1	LCS	9.6346	10.000	mg/L	96.3		85 - 115		
QC Batch ID: B080928										
Total Dissolved Solids @ 180 C	B080928-BS1	LCS	575.00	586.00	mg/L	98.1		90 - 110		
QC Batch ID: B080929										
Total Dissolved Solids @ 180 C	B080929-BS1	LCS	595.00	586.00	mg/L	102		90 - 110		
QC Batch ID: B081298										

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

Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
QC Batch ID: B081298											
Perchlorate	B081298-BS1	LCS	10.304	10.000	ug/L	103		85	115		

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

Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Qualls. Includes QC Batch IDs B067984, B067985, B080669, B080688, B080732, and B080733.

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

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

Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Control Limits Percent Recovery, Lab Quails. Includes QC Batch IDs B080733, B080880, B080881, B080928, B080929, and B081298.

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

Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080860						
Hexavalent Chromium	B080860-BLK1	ND	mg/L	0.00020	0.000032	
QC Batch ID: B080862						
Hexavalent Chromium	B080862-BLK1	ND	mg/L	0.00020	0.000032	
QC Batch ID: B080880						
Total Recoverable Iron	B080880-BLK1	ND	ug/L	50	30	
QC Batch ID: B080881						
Total Recoverable Iron	B080881-BLK1	ND	ug/L	50	30	
QC Batch ID: B080882						
Total Recoverable Arsenic	B080882-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B080882-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B080882-BLK1	ND	ug/L	1.0	0.10	
QC Batch ID: B080967						
Total Recoverable Arsenic	B080967-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B080967-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B080967-BLK1	ND	ug/L	1.0	0.10	
QC Batch ID: B080968						
Total Recoverable Arsenic	B080968-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B080968-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B080968-BLK1	ND	ug/L	1.0	0.10	

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

Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: B080860										
Hexavalent Chromium	B080860-BS1	LCS	0.019309	0.020000	mg/L	96.5		90 - 110		
QC Batch ID: B080862										
Hexavalent Chromium	B080862-BS1	LCS	0.019139	0.020000	mg/L	95.7		90 - 110		
QC Batch ID: B080880										
Total Recoverable Iron	B080880-BS1	LCS	1042.1	1000.0	ug/L	104		85 - 115		
QC Batch ID: B080881										
Total Recoverable Iron	B080881-BS1	LCS	1043.5	1000.0	ug/L	104		85 - 115		
QC Batch ID: B080882										
Total Recoverable Arsenic	B080882-BS1	LCS	104.72	100.00	ug/L	105		85 - 115		
Total Recoverable Chromium	B080882-BS1	LCS	40.937	40.000	ug/L	102		85 - 115		
Total Recoverable Lead	B080882-BS1	LCS	97.402	100.00	ug/L	97.4		85 - 115		
QC Batch ID: B080967										
Total Recoverable Arsenic	B080967-BS1	LCS	106.98	100.00	ug/L	107		85 - 115		
Total Recoverable Chromium	B080967-BS1	LCS	43.712	40.000	ug/L	109		85 - 115		
Total Recoverable Lead	B080967-BS1	LCS	105.47	100.00	ug/L	105		85 - 115		
QC Batch ID: B080968										
Total Recoverable Arsenic	B080968-BS1	LCS	107.97	100.00	ug/L	108		85 - 115		
Total Recoverable Chromium	B080968-BS1	LCS	40.888	40.000	ug/L	102		85 - 115		
Total Recoverable Lead	B080968-BS1	LCS	102.30	100.00	ug/L	102		85 - 115		

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

Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Control Limits Percent Recovery, Lab Quals. Includes QC Batch IDs B080860, B080862, B080880, B080881, B080882, B080967, and B080968.

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

Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: B080968		Used client sample: Y - Description: SB-2-061920, 06/19/2020 15:30								
Total Recoverable Arsenic	DUP	2017828-13	ND	ND		ug/L			20	
	MS	2017828-13	ND	109.02	100.00	ug/L		109		70 - 130
	MSD	2017828-13	ND	110.11	100.00	ug/L	1.0	110	20	70 - 130
Total Recoverable Chromium	DUP	2017828-13	ND	ND		ug/L			20	
	MS	2017828-13	ND	42.591	40.000	ug/L		106		70 - 130
	MSD	2017828-13	ND	42.057	40.000	ug/L	1.3	105	20	70 - 130
Total Recoverable Lead	DUP	2017828-13	ND	ND		ug/L			20	
	MS	2017828-13	ND	104.75	100.00	ug/L		105		70 - 130
	MSD	2017828-13	ND	108.15	100.00	ug/L	3.2	108	20	70 - 130

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

Reported: 07/02/2020 12:49
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Notes And Definitions

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

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Date of Report: 07/08/2020

David Conner

Tidewater Inc. - Powell

3761 Attucks Drive

Powell, OH 43065

Client Project: 2Q20

BCL Project: JPL- GW Monitoring Wells

BCL Work Order: 2017925

Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 6/22/2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda

Client Service Rep

Stuart Buttram

Technical Director

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

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Chain of Custody Form

Resort To: Tidelwater, Inc.
 Client: Tidelwater, Inc.
 Attn: David Conner
 Street Address: 3761 Allucks Drive
 City: Powell State: OH Zip: 43065
 Phone: 614-298-5715 Fax: 614-792-2897
 Email Address: david.conner@tdlch20.net
 Submission #: 20-17925

Project Description: JPL-GW Monitoring
 Project Code: 2020
 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 10 - Days
 Lab TAT Approval: Additional Charges May Apply

Sample #	Sample Description	Date	Time	Matrix*
-1	1B-10-062220	6/27/20	0800	L
-2	MU-11-5	0930		
-3	MU-11-4	0945		
-4	MU-11-3	1030		
-5	Sup-5-202020	1045		
-6	MU-11-2	1130		
-7	MU-11-1	1215		
-8	FR-10-062220	1415		
-9	MU-14-5	1300		
-10	MU-14-4	1400		
-11	MU-14-2	1445		

Analysis Requested:
 VOCs EPA 524.2
 TRM: Cr, Pb, As, Ca, Mg, K
 Na, Fe
 Hexavalent Cr - 218.8 (mg/L)
 Cl, NO3, NO2, SO4, Perch.
 CO3, HCO3, Alk, TDS, pH
 Orthophosphate 365.1
 1,4 Dioxane 82705IM
 NDMA 1625M
 PAHs, Phthalates, Phenols

Notes:
 CHK BY: DISTRIBUTION
 SUB OUT
 DO G2 G070 MBAS COT
 CR-10 NO3 NO2 OP SS
 DO G2 G070 MBAS COT

Cost Center:
 1. Relinquished By: Global JPL
 2. Relinquished By: [Signature]
 3. Relinquished By: [Signature]

1. Received By: [Signature] Date: 6-27-20 Time: 1500
 2. Relinquished By: [Signature] Date: 6-27-20 Time: 1715
 3. Relinquished By: [Signature] Date: 6-22-20 Time: 1715

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

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 01 of 01

Submission #: 20-17925

SHIPPING INFORMATION		SHIPPING CONTAINER		FREE LIQUID
Fed Ex <input type="checkbox"/>	UPS <input type="checkbox"/>	Ice Chest <input checked="" type="checkbox"/>	None <input type="checkbox"/>	YES <input type="checkbox"/> NO <input type="checkbox"/>
BC Lab Field Service <input checked="" type="checkbox"/>	Ontrac <input type="checkbox"/>	Other <input type="checkbox"/>	Box <input type="checkbox"/>	W / S
Hand Delivery <input type="checkbox"/>		Other (Specify) _____		

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____

Intact? Yes No Intact? Yes No

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

COC Received YES NO

Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time: 6/22/15

Temperature: (A) 0.7 °C / (C) 0.5 °C Analyst Init: GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES								E		F
4oz / 8oz / 16oz PE UNPRES								F		F
2oz Cr ⁶⁺								D		D
QT INORGANIC CHEMICAL METALS								G		G
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	A									
40ml VOA VIAL		ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/509/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____

Sample Numbering Completed By: GSP Date/Time: 6/22 1:58

A = Actual / C = Corrected

Rev 21 05/23/2016
08:\WPDec\Word\Partic\LAB_90C9\FDRMS15AMREC.rvt 201



BC LABORATORIES INC. COOLER RECEIPT FORM Page 2 of 3

Submission #: 20-17925

SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Ontrac <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____	FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/> W / S
--	--	--	--

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers None Comments: _____

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

COC Received YES NO Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time: 6/22/15
 Temperature: (A) 0.7 °C / (C) 0.5 °C Analyst Init: GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES	E									
4oz / 8oz / 16oz PE UNPRES	F									
2oz Cr ⁶⁺	D									
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz	G									
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	ABC									
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/508/508										
QT EPA 515.1/E150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 3015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____
 Sample Numbering Completed By: GSP Date/Time: 6/22 1858
 A = Actual / C = Corrected



BC LABORATORIES INC. COOLER RECEIPT FORM Page 3 of 3

Submission #: 20-17925

SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Ontrac <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/> W / S
--	--	--	--	--

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____

Intact? Yes No Intact? Yes No

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

COC Received YES NO

Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time: 6/22/15

Temperature: (A) 1.0 °C / (C) 0.8 °C Analyst Init: GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES	E	E	E	E	E	E	E		E	
4oz / 8oz / 16oz PE UNPRES	F	F	F	F	F	F	F		F	
2oz Cr ⁶⁺	D	D	D	D	D	D	D		D	
QT INORGANIC CHEMICAL METALS X40							G			
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz	G	G	G	G	G	G	H		G	
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PLA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL - 504										
QT EPA 503/603/8080										
QT EPA 515.18150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____

Sample Numbering Completed By: GSP Date/Time: 6/22 1904 Rev 21 05/23/2016

A = Actual / C = Corrected

15:\WP\DeclWork\PerfectLAB_DOCS\FORMS\ISANREC\rev 201



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

Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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2017925-01	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: TB-10-062220 Sampled By: Blaine Tech of BTST	Receive Date: 06/22/2020 17:15 Sampling Date: 06/22/2020 08:00 Sample Depth: --- Lab Matrix: Water Sample Type: Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-10-062220 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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2017925-02	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW-11-5 Sampled By: Blaine Tech of BTST	Receive Date: 06/22/2020 17:15 Sampling Date: 06/22/2020 09:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-11-5 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

2017925-03	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW-11-4 Sampled By: Blaine Tech of BTST	Receive Date: 06/22/2020 17:15 Sampling Date: 06/22/2020 08:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-11-4 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2017925-04	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW-11-3 Sampled By: Blaine Tech of BTST	Receive Date: 06/22/2020 17:15 Sampling Date: 06/22/2020 10:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-11-3 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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2017925-05	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: Dup-5-2Q2020 Sampled By: Blaine Tech of BTST	Receive Date: 06/22/2020 17:15 Sampling Date: 06/22/2020 10:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): Dup-5-2Q2020 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

2017925-06	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW-11-2 Sampled By: Blaine Tech of BTST	Receive Date: 06/22/2020 17:15 Sampling Date: 06/22/2020 11:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-11-2 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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2017925-07	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW-11-1 Sampled By: Blaine Tech of BTST	Receive Date: 06/22/2020 17:15 Sampling Date: 06/22/2020 12:15 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-11-1 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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2017925-08	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: EB-10-062220 Sampled By: Blaine Tech of BTST	Receive Date: 06/22/2020 17:15 Sampling Date: 06/22/2020 14:15 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-10-062220 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

2017925-09	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW-14-5 Sampled By: Blaine Tech of BTST	Receive Date: 06/22/2020 17:15 Sampling Date: 06/22/2020 13:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-14-5 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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3761 Attucks Drive
Powell, OH 43065

Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2017925-10	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW-14-4 Sampled By: Blaine Tech of BTST	Receive Date: 06/22/2020 17:15 Sampling Date: 06/22/2020 14:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-14-4 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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2017925-11	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW-14-2 Sampled By: Blaine Tech of BTST	Receive Date: 06/22/2020 17:15 Sampling Date: 06/22/2020 14:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-14-2 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017925-01 Client Sample Name: JPL GW, TB-10-062220, 6/22/2020 8:00:00AM, Blaine Tech

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

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

Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017925-01	Client Sample Name: JPL GW, TB-10-062220, 6/22/2020 8:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
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	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	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: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017925-01	Client Sample Name: JPL GW, TB-10-062220, 6/22/2020 8:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01,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)	119	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	95.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/23/20 08:00	06/24/20 04:18	MGC	MS-V5	1	B080714	EPA 524.2

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

Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017925-01	Client Sample Name: JPL GW, TB-10-062220, 6/22/2020 8:00:00AM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/23/20 08:00	06/24/20	04:18	MGC	MS-V5	1	B080714	EPA 524.2

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

Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017925-02	Client Sample Name: JPL GW, MW-11-5, 6/22/2020 9:30:00AM, Blaine Tech
----------------------------------	--

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

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Tidewater Inc. - Powell
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Powell, OH 43065

Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017925-02	Client Sample Name: JPL GW, MW-11-5, 6/22/2020 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	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: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017925-02	Client Sample Name: JPL GW, MW-11-5, 6/22/2020 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	117	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	95.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/23/20 08:00	06/24/20 04:42	MGC	MS-V5	1	B080714	EPA 524.2

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017925-02	Client Sample Name: JPL GW, MW-11-5, 6/22/2020 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/23/20 08:00	06/24/20	04:42	MGC	MS-V5	1	B080714	EPA 524.2

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017925-02	Client Sample Name: JPL GW, MW-11-5, 6/22/2020 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000068	mg/L	0.00020	0.000032	EPA-218.6	0.000033	J	1
Total Recoverable Arsenic	5.6	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	7.4	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	2800	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	1.6	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-218.6	06/23/20 14:00	06/24/20 01:18	SAV	IC-4	1	B080861	No Prep
2	EPA-200.8	06/26/20 07:15	06/26/20 11:07	JNC	PE-EL2	1	B081094	EPA 200.2
3	EPA-200.7	06/25/20 13:45	06/30/20 14:16	JRG	PE-OP4	1	B081040	EPA 200.2

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017925-03	Client Sample Name: JPL GW, MW-11-4, 6/22/2020 8:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017925-03	Client Sample Name: JPL GW, MW-11-4, 6/22/2020 8:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	0.31	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	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	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: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017925-03	Client Sample Name: JPL GW, MW-11-4, 6/22/2020 8:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01,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)	122	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/23/20 08:00	06/24/20 05:06	MGC	MS-V5	1	B080714	EPA 524.2

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017925-03	Client Sample Name: JPL GW, MW-11-4, 6/22/2020 8:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/23/20 08:00	06/24/20	05:06	MGC	MS-V5	1	B080714	EPA 524.2

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Powell, OH 43065

Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017925-03	Client Sample Name: JPL GW, MW-11-4, 6/22/2020 8:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000060	mg/L	0.00020	0.000032	EPA-218.6	0.000033	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	110	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/23/20 14:00	06/24/20	01:57	SAV	IC-4	1	B080861	No Prep
2	EPA-200.8	06/26/20 07:15	06/26/20	11:09	JNC	PE-EL2	1	B081094	EPA 200.2
3	EPA-200.7	06/25/20 13:45	06/30/20	14:28	JRG	PE-OP4	1	B081040	EPA 200.2

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017925-04	Client Sample Name: JPL GW, MW-11-3, 6/22/2020 10:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017925-04 **Client Sample Name:** JPL GW, MW-11-3, 6/22/2020 10:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	0.19	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	0.16	ug/L	0.50	0.12	EPA-524.2	ND	J	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	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: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017925-04	Client Sample Name: JPL GW, MW-11-3, 6/22/2020 10:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	120	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/23/20 08:00	06/24/20 05:30	MGC	MS-V5	1	B080714	EPA 524.2

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017925-04	Client Sample Name: JPL GW, MW-11-3, 6/22/2020 10:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/23/20 08:00	06/24/20	05:30	MGC	MS-V5	1	B080714	EPA 524.2

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2017925-04		Client Sample Name: JPL GW, MW-11-3, 6/22/2020 10:30:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	20	mg/L	0.10	0.014	EPA-200.7	ND		1	
Total Recoverable Magnesium	7.8	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	27	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	1.9	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	130	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	3.1	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	120	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	12	mg/L	0.50	0.13	EPA-300.0	0.14		3	
Nitrate as N	ND	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	9.2	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	8.36	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	160	mg/L	10	5.0	EPA-160.1	ND		5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/25/20 13:45	06/30/20 14:34		JRG	PE-OP4	1	B081040	EPA 200.2
2	SM-2320B	06/24/20 14:00	06/24/20 16:11		MEV	MET-1	1	B067990	No Prep
3	EPA-300.0	06/22/20 21:00	06/23/20 00:08		SAV	IC2	1	B080784	No Prep
4	EPA-150.1	06/24/20 14:00	06/24/20 16:11		MEV	MET-1	1	B067990	No Prep
5	EPA-160.1	06/25/20 14:00	06/25/20 14:00		CAD	MANUAL	1	B081028	No Prep
6	EPA-353.2	06/22/20 17:00	06/22/20 21:22		CMM	KONE-1	1	B081314	No Prep
7	EPA-314.0	06/30/20 09:00	06/30/20 23:45		SAV	IC6	1	B081299	No Prep

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017925-04	Client Sample Name: JPL GW, MW-11-3, 6/22/2020 10:30:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000090	mg/L	0.00020	0.000032	EPA-218.6	0.000033	J	1
Total Recoverable Arsenic	1.7	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	6.7	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	1100	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	0.22	ug/L	1.0	0.10	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/23/20 14:00	06/24/20 02:06		SAV	IC-4	1	B080861	No Prep
2	EPA-200.8	06/26/20 07:15	06/26/20 11:11		JNC	PE-EL2	1	B081094	EPA 200.2
3	EPA-200.7	06/25/20 13:45	06/30/20 14:34		JRG	PE-OP4	1	B081040	EPA 200.2

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017925-05	Client Sample Name: JPL GW, Dup-5-2Q2020, 6/22/2020 10:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017925-05	Client Sample Name: JPL GW, Dup-5-2Q2020, 6/22/2020 10:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	0.21	ug/L	0.50	0.12	EPA-524.2	ND	J	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	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: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017925-05	Client Sample Name: JPL GW, Dup-5-2Q2020, 6/22/2020 10:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01,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)	119	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/23/20 08:00	06/24/20 05:54	MGC	MS-V5	1	B080714	EPA 524.2

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017925-05	Client Sample Name: JPL GW, Dup-5-2Q2020, 6/22/2020 10:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/23/20 08:00	06/24/20	05:54	MGC	MS-V5	1	B080714	EPA 524.2

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows 1-7 corresponding to the main analysis table.

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017925-05	Client Sample Name: JPL GW, Dup-5-2Q2020, 6/22/2020 10:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000041	mg/L	0.00020	0.000032	EPA-218.6	0.000033	J	1
Total Recoverable Arsenic	1.6	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	95	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/23/20 14:00	06/24/20	02:16	SAV	IC-4	1	B080861	No Prep
2	EPA-200.8	06/26/20 07:15	06/26/20	11:23	JNC	PE-EL2	1	B081094	EPA 200.2
3	EPA-200.7	06/25/20 13:45	06/30/20	14:36	JRG	PE-OP4	1	B081040	EPA 200.2

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017925-06	Client Sample Name: JPL GW, MW-11-2, 6/22/2020 11:30:00AM, Blaine Tech
----------------------------------	---

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

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017925-06	Client Sample Name: JPL GW, MW-11-2, 6/22/2020 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	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: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017925-06	Client Sample Name: JPL GW, MW-11-2, 6/22/2020 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01,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)	123	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	95.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/23/20 08:00	06/24/20 06:18	MGC	MS-V5	1	B080714	EPA 524.2

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Powell, OH 43065

Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017925-06	Client Sample Name: JPL GW, MW-11-2, 6/22/2020 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/23/20 08:00	06/24/20	06:18	MGC	MS-V5	1	B080714	EPA 524.2

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2017925-06		Client Sample Name: JPL GW, MW-11-2, 6/22/2020 11:30:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	51	mg/L	0.10	0.014	EPA-200.7	ND		1	
Total Recoverable Magnesium	19	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	23	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	2.9	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	230	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	190	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	17	mg/L	0.50	0.13	EPA-300.0	0.14		3	
Nitrate as N	ND	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	37	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	7.94	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	300	mg/L	20	10	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/25/20 13:45	06/30/20	14:38	JRG	PE-OP4	1	B081040	EPA 200.2
2	SM-2320B	06/24/20 14:00	06/24/20	16:26	MEV	MET-1	1	B067990	No Prep
3	EPA-300.0	06/22/20 21:00	06/23/20	00:49	SAV	IC2	1	B080784	No Prep
4	EPA-150.1	06/24/20 14:00	06/24/20	16:26	MEV	MET-1	1	B067990	No Prep
5	EPA-160.1	06/25/20 14:00	06/25/20	14:00	CAD	MANUAL	2	B081028	No Prep
6	EPA-353.2	06/22/20 17:00	06/22/20	21:22	CMM	KONE-1	1	B081314	No Prep
7	EPA-314.0	06/30/20 09:00	07/01/20	00:18	SAV	IC6	1	B081299	No Prep

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017925-06	Client Sample Name: JPL GW, MW-11-2, 6/22/2020 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000047	mg/L	0.00020	0.000032	EPA-218.6	0.000033	J	1
Total Recoverable Arsenic	1.0	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	330	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/23/20 14:00	06/24/20 03:04		SAV	IC-4	1	B080861	No Prep
2	EPA-200.8	06/26/20 07:15	06/26/20 11:14		JNC	PE-EL2	1	B081094	EPA 200.2
3	EPA-200.7	06/25/20 13:45	06/30/20 14:38		JRG	PE-OP4	1	B081040	EPA 200.2

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017925-07	Client Sample Name: JPL GW, MW-11-1, 6/22/2020 12:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017925-07	Client Sample Name: JPL GW, MW-11-1, 6/22/2020 12:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	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: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017925-07	Client Sample Name: JPL GW, MW-11-1, 6/22/2020 12:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01,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)	121	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/23/20 08:00	06/24/20 06:42	MGC	MS-V5	1	B080714	EPA 524.2

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017925-07	Client Sample Name: JPL GW, MW-11-1, 6/22/2020 12:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/23/20 08:00	06/24/20	06:42	MGC	MS-V5	1	B080714	EPA 524.2

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2017925-07		Client Sample Name: JPL GW, MW-11-1, 6/22/2020 12:15:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	66	mg/L	0.10	0.014	EPA-200.7	ND		1	
Total Recoverable Magnesium	20	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	28	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	3.2	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	260	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	220	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	32	mg/L	0.50	0.13	EPA-300.0	0.14		3	
Nitrate as N	2.8	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	52	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	7.79	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	410	mg/L	20	10	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	0.87	ug/L	4.0	0.81	EPA-314.0	ND	J	7	
ortho-Phosphate as P	ND	mg/L	0.050	0.017	EPA-365.1	ND		8	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/25/20 13:45	06/30/20	14:40	JRG	PE-OP4	1	B081040	EPA 200.2
2	SM-2320B	06/24/20 14:00	06/24/20	16:34	MEV	MET-1	1	B067990	No Prep
3	EPA-300.0	06/22/20 21:00	06/23/20	02:12	SAV	IC2	1	B080784	No Prep
4	EPA-150.1	06/24/20 14:00	06/24/20	16:34	MEV	MET-1	1	B067990	No Prep
5	EPA-160.1	06/25/20 14:00	06/25/20	14:00	CAD	MANUAL	2	B081028	No Prep
6	EPA-353.2	06/22/20 17:00	06/22/20	21:28	CMM	KONE-1	1	B081314	No Prep
7	EPA-314.0	06/30/20 09:00	07/01/20	00:35	SAV	IC6	1	B081299	No Prep
8	EPA-365.1	06/23/20 07:30	06/23/20	19:39	CMM	SC-1	1	B081033	No Prep

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017925-07	Client Sample Name: JPL GW, MW-11-1, 6/22/2020 12:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000053	mg/L	0.00020	0.000032	EPA-218.6	0.000033	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	210	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/23/20 14:00	06/24/20	03:13	SAV	IC-4	1	B080861	No Prep
2	EPA-200.8	06/26/20 07:15	06/26/20	11:16	JNC	PE-EL2	1	B081094	EPA 200.2
3	EPA-200.7	06/25/20 13:45	06/30/20	14:40	JRG	PE-OP4	1	B081040	EPA 200.2

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017925-08	Client Sample Name: JPL GW, EB-10-062220, 6/22/2020 2:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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

Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017925-08	Client Sample Name: JPL GW, EB-10-062220, 6/22/2020 2:15:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	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: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2017925-08) and Client Sample Name (JPL GW, EB-10-062220, 6/22/2020 2:15:00PM, Blaine Tech)

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

QC Summary table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method.

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

Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017925-08	Client Sample Name: JPL GW, EB-10-062220, 6/22/2020 2:15:00PM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/23/20 08:00	06/24/20	07:06	MGC	MS-V5	1	B080714	EPA 524.2

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Powell, OH 43065

Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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Powell, OH 43065

Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017925-08	Client Sample Name: JPL GW, EB-10-062220, 6/22/2020 2:15:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000059	mg/L	0.00020	0.000032	EPA-218.6	0.000033	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/23/20 14:00	06/24/20	03:23	SAV	IC-4	1	B080861	No Prep
2	EPA-200.8	06/26/20 07:15	06/26/20	10:53	JNC	PE-EL2	1	B081094	EPA 200.2
3	EPA-200.7	06/25/20 13:45	06/30/20	14:43	JRG	PE-OP4	1	B081040	EPA 200.2

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Tidewater Inc. - Powell
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Powell, OH 43065

Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2017925-09	Client Sample Name:	JPL GW, MW-14-5, 6/22/2020 1:30:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1	
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1	
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1	
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chloroform	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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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2017925-09) and Client Sample Name (JPL GW, MW-14-5, 6/22/2020 1:30:00PM, Blaine Tech)

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

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Powell, OH 43065

Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017925-09	Client Sample Name: JPL GW, MW-14-5, 6/22/2020 1:30:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01,V11	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	120	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	95.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/23/20 08:00	06/24/20 07:30	MGC	MS-V5	1	B080714	EPA 524.2

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Powell, OH 43065

Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017925-09	Client Sample Name: JPL GW, MW-14-5, 6/22/2020 1:30:00PM, Blaine Tech
----------------------------------	--

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/23/20 08:00	06/24/20	07:30	MGC	MS-V5	1	B080714	EPA 524.2

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Powell, OH 43065

Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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Powell, OH 43065

Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017925-09	Client Sample Name: JPL GW, MW-14-5, 6/22/2020 1:30:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000040	mg/L	0.00020	0.000032	EPA-218.6	0.000033	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	3.9	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	460	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-218.6	06/23/20 14:00	06/24/20 03:33	SAV	IC-4	1	B080861	No Prep
2	EPA-200.8	06/26/20 07:15	06/26/20 11:18	JNC	PE-EL2	1	B081094	EPA 200.2
3	EPA-200.7	06/25/20 13:45	06/30/20 14:45	JRG	PE-OP4	1	B081040	EPA 200.2

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017925-10	Client Sample Name: JPL GW, MW-14-4, 6/22/2020 2:00:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.24	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017925-10	Client Sample Name: JPL GW, MW-14-4, 6/22/2020 2:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	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: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017925-10	Client Sample Name: JPL GW, MW-14-4, 6/22/2020 2:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01,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)	123	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	95.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/23/20 08:00	06/24/20 07:54	MGC	MS-V5	1	B080714	EPA 524.2

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Powell, OH 43065

Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017925-10	Client Sample Name: JPL GW, MW-14-4, 6/22/2020 2:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/23/20 08:00	06/24/20	07:54	MGC	MS-V5	1	B080714	EPA 524.2

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2017925-10		Client Sample Name: JPL GW, MW-14-4, 6/22/2020 2:00:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	67	mg/L	0.10	0.014	EPA-200.7	ND		1	
Total Recoverable Magnesium	23	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	31	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	2.2	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	190	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	160	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	57	mg/L	0.50	0.13	EPA-300.0	0.14		3	
Nitrate as N	11	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	62	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	7.99	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	440	mg/L	33	17	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	4.4	ug/L	4.0	0.81	EPA-314.0	ND		7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/25/20 13:45	06/30/20	14:47	JRG	PE-OP4	1	B081040	EPA 200.2
2	SM-2320B	06/24/20 14:00	06/24/20	16:56	MEV	MET-1	1	B067990	No Prep
3	EPA-300.0	06/22/20 21:00	06/23/20	02:53	SAV	IC2	1	B080784	No Prep
4	EPA-150.1	06/24/20 14:00	06/24/20	16:56	MEV	MET-1	1	B067990	No Prep
5	EPA-160.1	06/25/20 14:00	06/25/20	14:00	CAD	MANUAL	3.333	B081028	No Prep
6	EPA-353.2	06/22/20 17:00	06/22/20	21:28	CMM	KONE-1	1	B081314	No Prep
7	EPA-314.0	06/30/20 09:00	07/01/20	08:52	SAV	IC6	1	B081299	No Prep

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Powell, OH 43065

Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017925-10	Client Sample Name: JPL GW, MW-14-4, 6/22/2020 2:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00058	mg/L	0.00020	0.000032	EPA-218.6	0.000033		1
Total Recoverable Arsenic	0.89	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	3.3	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	100	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/23/20 14:00	06/24/20 03:42		SAV	IC-4	1	B080861	No Prep
2	EPA-200.8	06/26/20 07:15	06/26/20 11:19		JNC	PE-EL2	1	B081094	EPA 200.2
3	EPA-200.7	06/25/20 13:45	06/30/20 14:47		JRG	PE-OP4	1	B081040	EPA 200.2

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017925-11	Client Sample Name: JPL GW, MW-14-2, 6/22/2020 2:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.49	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: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017925-11	Client Sample Name: JPL GW, MW-14-2, 6/22/2020 2:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.35	ug/L	0.50	0.23	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	1.4	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	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	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: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2017925-11	Client Sample Name: JPL GW, MW-14-2, 6/22/2020 2:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01,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)	119	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/23/20 08:00	06/24/20 08:18	MGC	MS-V5	1	B080718	EPA 524.2

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Powell, OH 43065

Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2017925-11	Client Sample Name: JPL GW, MW-14-2, 6/22/2020 2:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/23/20 08:00	06/24/20	08:18	MGC	MS-V5	1	B080718	EPA 524.2

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2017925-11	Client Sample Name: JPL GW, MW-14-2, 6/22/2020 2:45:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00011	mg/L	0.00020	0.000032	EPA-218.6	0.000033	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	1.3	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	150	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/23/20 14:00	06/24/20 03:52		SAV	IC-4	1	B080861	No Prep
2	EPA-200.8	06/26/20 07:15	06/26/20 11:21		JNC	PE-EL2	1	B081094	EPA 200.2
3	EPA-200.7	06/25/20 13:45	06/30/20 14:49		JRG	PE-OP4	1	B081040	EPA 200.2

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080714						
Benzene	B080714-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B080714-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B080714-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B080714-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B080714-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B080714-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B080714-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B080714-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B080714-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B080714-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B080714-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B080714-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B080714-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B080714-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B080714-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B080714-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B080714-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B080714-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B080714-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B080714-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B080714-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B080714-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B080714-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B080714-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B080714-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B080714-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B080714-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B080714-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B080714-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B080714-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B080714-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B080714-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B080714-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B080714-BLK1	ND	ug/L	0.50	0.14	

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080714						
trans-1,3-Dichloropropene	B080714-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B080714-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B080714-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B080714-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B080714-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B080714-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B080714-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B080714-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B080714-BLK1	ND	ug/L	0.50	0.12	
Styrene	B080714-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B080714-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2,2-Tetrachloroethane	B080714-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B080714-BLK1	ND	ug/L	0.50	0.23	
Toluene	B080714-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B080714-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B080714-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B080714-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B080714-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B080714-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B080714-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B080714-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B080714-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B080714-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B080714-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B080714-BLK1	ND	ug/L	0.50	0.18	
Acetone	B080714-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B080714-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B080714-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B080714-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B080714-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	B080714-BLK1	ND	ug/L	1.0	0.48	
trans-1,4-Dichloro-2-butene	B080714-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B080714-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B080714-BLK1	ND	ug/L	4.0	1.3	

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Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
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QC Batch ID: B080714

Ethyl t-butyl ether	B080714-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B080714-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B080714-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B080714-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B080714-BLK1	ND	ug/L	10	3.3	
Methyl iodide	B080714-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B080714-BLK1	ND	ug/L	10	2.4	
Methyl methacrylate	B080714-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B080714-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B080714-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B080714-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B080714-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B080714-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B080714-BLK1	111	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B080714-BLK1	95.9	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B080714-BLK1	103	%	80 - 120 (LCL - UCL)		

QC Batch ID: B080718

Benzene	B080718-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B080718-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B080718-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B080718-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B080718-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B080718-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B080718-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B080718-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B080718-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B080718-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B080718-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B080718-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B080718-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B080718-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B080718-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B080718-BLK1	ND	ug/L	0.50	0.093	

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Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080718						
Dibromochloromethane	B080718-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B080718-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B080718-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B080718-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B080718-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B080718-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B080718-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B080718-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B080718-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B080718-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B080718-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B080718-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B080718-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B080718-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B080718-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B080718-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B080718-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B080718-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	B080718-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B080718-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B080718-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B080718-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B080718-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B080718-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B080718-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B080718-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B080718-BLK1	ND	ug/L	0.50	0.12	
Styrene	B080718-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B080718-BLK1	ND	ug/L	0.50	0.21	
1,1,2,2-Tetrachloroethane	B080718-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B080718-BLK1	ND	ug/L	0.50	0.23	
Toluene	B080718-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B080718-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B080718-BLK1	ND	ug/L	0.50	0.15	

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3761 Attucks Drive
Powell, OH 43065

Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080718						
1,1,1-Trichloroethane	B080718-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B080718-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B080718-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B080718-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B080718-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B080718-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B080718-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B080718-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B080718-BLK1	ND	ug/L	0.50	0.18	
Acetone	B080718-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B080718-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B080718-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B080718-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B080718-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	B080718-BLK1	ND	ug/L	1.0	0.48	
trans-1,4-Dichloro-2-butene	B080718-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B080718-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B080718-BLK1	ND	ug/L	4.0	1.3	
Ethyl t-butyl ether	B080718-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B080718-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B080718-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B080718-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B080718-BLK1	ND	ug/L	10	3.3	
Methyl iodide	B080718-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B080718-BLK1	ND	ug/L	10	2.4	
Methyl methacrylate	B080718-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B080718-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B080718-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B080718-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B080718-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B080718-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B080718-BLK1	112	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B080718-BLK1	97.6	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B080718-BLK1	102	%	80 - 120 (LCL - UCL)		

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Powell, OH 43065

Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: B080714										
Benzene	B080714-BS1	LCS	27.240	25.000	ug/L	109		70 - 130		
Bromodichloromethane	B080714-BS1	LCS	29.670	25.000	ug/L	119		70 - 130		
Chlorobenzene	B080714-BS1	LCS	24.670	25.000	ug/L	98.7		70 - 130		
Chloroethane	B080714-BS1	LCS	28.210	25.000	ug/L	113		70 - 130		
1,4-Dichlorobenzene	B080714-BS1	LCS	24.700	25.000	ug/L	98.8		70 - 130		
1,1-Dichloroethane	B080714-BS1	LCS	29.140	25.000	ug/L	117		70 - 130		
1,1-Dichloroethene	B080714-BS1	LCS	29.610	25.000	ug/L	118		70 - 130		
Toluene	B080714-BS1	LCS	25.280	25.000	ug/L	101		70 - 130		
Trichloroethene	B080714-BS1	LCS	27.270	25.000	ug/L	109		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B080714-BS1	LCS	11.380	10.000	ug/L	114		75 - 125		
Toluene-d8 (Surrogate)	B080714-BS1	LCS	9.7300	10.000	ug/L	97.3		80 - 120		
4-Bromofluorobenzene (Surrogate)	B080714-BS1	LCS	10.290	10.000	ug/L	103		80 - 120		

QC Batch ID: B080718										
Benzene	B080718-BS1	LCS	27.710	25.000	ug/L	111		70 - 130		
Bromodichloromethane	B080718-BS1	LCS	30.240	25.000	ug/L	121		70 - 130		
Chlorobenzene	B080718-BS1	LCS	25.160	25.000	ug/L	101		70 - 130		
Chloroethane	B080718-BS1	LCS	28.170	25.000	ug/L	113		70 - 130		
1,4-Dichlorobenzene	B080718-BS1	LCS	24.740	25.000	ug/L	99.0		70 - 130		
1,1-Dichloroethane	B080718-BS1	LCS	28.950	25.000	ug/L	116		70 - 130		
1,1-Dichloroethene	B080718-BS1	LCS	29.520	25.000	ug/L	118		70 - 130		
Toluene	B080718-BS1	LCS	25.820	25.000	ug/L	103		70 - 130		
Trichloroethene	B080718-BS1	LCS	29.770	25.000	ug/L	119		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B080718-BS1	LCS	11.640	10.000	ug/L	116		75 - 125		
Toluene-d8 (Surrogate)	B080718-BS1	LCS	9.7000	10.000	ug/L	97.0		80 - 120		
4-Bromofluorobenzene (Surrogate)	B080718-BS1	LCS	10.250	10.000	ug/L	102		80 - 120		

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Control Limits Percent Recovery, Lab Quals. Includes two QC Batch sections (B080714 and B080718) with detailed data for various compounds like Benzene, Bromodichloromethane, etc.

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
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		Lab
								RPD	Percent Recovery	
QC Batch ID: B080718										
Used client sample: N										
1,1-Dichloroethene	MS	2017828-05	ND	30.810	25.000	ug/L		123		70 - 130
	MSD	2017828-05	ND	30.830	25.000	ug/L	0.1	123	20	70 - 130
Toluene	MS	2017828-05	ND	25.850	25.000	ug/L		103		70 - 130
	MSD	2017828-05	ND	26.080	25.000	ug/L	0.9	104	20	70 - 130
Trichloroethene	MS	2017828-05	1.0300	28.690	25.000	ug/L		111		70 - 130
	MSD	2017828-05	1.0300	28.990	25.000	ug/L	1.0	112	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	2017828-05	ND	11.960	10.000	ug/L		120		75 - 125
	MSD	2017828-05	ND	11.290	10.000	ug/L	5.8	113		75 - 125
Toluene-d8 (Surrogate)	MS	2017828-05	ND	9.6600	10.000	ug/L		96.6		80 - 120
	MSD	2017828-05	ND	9.6000	10.000	ug/L	0.6	96.0		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	2017828-05	ND	9.8700	10.000	ug/L		98.7		80 - 120
	MSD	2017828-05	ND	9.8600	10.000	ug/L	0.1	98.6		80 - 120

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080714						
Chloroacetonitrile	B080714-BLK1	0	ug/L			
1-Chlorobutane	B080714-BLK1	0	ug/L			
1,1-Dichloropropanone	B080714-BLK1	0	ug/L			
Methyl acrylate	B080714-BLK1	0	ug/L			
Nitrobenzene	B080714-BLK1	0	ug/L			
2-Nitropropane	B080714-BLK1	0	ug/L			
QC Batch ID: B080718						
Chloroacetonitrile	B080718-BLK1	0	ug/L			
1-Chlorobutane	B080718-BLK1	0	ug/L			
1,1-Dichloropropanone	B080718-BLK1	0	ug/L			
Methyl acrylate	B080718-BLK1	0	ug/L			
Nitrobenzene	B080718-BLK1	0	ug/L			
2-Nitropropane	B080718-BLK1	0	ug/L			

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B067990						
Bicarbonate	B067990-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B067990-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B067990-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: B080784						
Chloride	B080784-BLK1	0.13900	mg/L	0.50	0.13	J
Nitrate as N	B080784-BLK1	ND	mg/L	0.10	0.024	
Sulfate	B080784-BLK1	ND	mg/L	1.0	0.14	
QC Batch ID: B081028						
Total Dissolved Solids @ 180 C	B081028-BLK1	ND	mg/L	6.7	3.3	
QC Batch ID: B081033						
ortho-Phosphate as P	B081033-BLK1	ND	mg/L	0.050	0.017	
QC Batch ID: B081040						
Total Recoverable Calcium	B081040-BLK1	ND	mg/L	0.10	0.014	
Total Recoverable Magnesium	B081040-BLK1	ND	mg/L	0.050	0.019	
Total Recoverable Sodium	B081040-BLK1	ND	mg/L	0.50	0.051	
Total Recoverable Potassium	B081040-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: B081299						
Perchlorate	B081299-BLK1	ND	ug/L	4.0	0.81	
QC Batch ID: B081314						
Nitrite as N	B081314-BLK1	ND	mg/L	0.050	0.010	

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: B067990										
Total Alkalinity as CaCO3	B067990-BS3	LCS	100.26	100.00	mg/L	100		90 - 110		
pH	B067990-BS2	LCS	6.9800	7.0000	pH Units	99.7		95 - 105		
QC Batch ID: B080784										
Chloride	B080784-BS1	LCS	52.371	50.000	mg/L	105		90 - 110		
Nitrate as N	B080784-BS1	LCS	5.2010	5.0000	mg/L	104		90 - 110		
Sulfate	B080784-BS1	LCS	103.90	100.00	mg/L	104		90 - 110		
QC Batch ID: B081028										
Total Dissolved Solids @ 180 C	B081028-BS1	LCS	575.00	586.00	mg/L	98.1		90 - 110		
QC Batch ID: B081033										
ortho-Phosphate as P	B081033-BS1	LCS	0.50110	0.50000	mg/L	100		90 - 110		
QC Batch ID: B081040										
Total Recoverable Calcium	B081040-BS1	LCS	10.113	10.000	mg/L	101		85 - 115		
Total Recoverable Magnesium	B081040-BS1	LCS	10.011	10.000	mg/L	100		85 - 115		
Total Recoverable Sodium	B081040-BS1	LCS	10.112	10.000	mg/L	101		85 - 115		
Total Recoverable Potassium	B081040-BS1	LCS	9.5729	10.000	mg/L	95.7		85 - 115		
QC Batch ID: B081299										
Perchlorate	B081299-BS1	LCS	9.1493	10.000	ug/L	91.5		85 - 115		
QC Batch ID: B081314										
Nitrite as N	B081314-BS1	LCS	0.49292	0.50000	mg/L	98.6		90 - 110		

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes QC Batch IDs B067990, B080784, B081028, B081033, B081040, and B081299.

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: B081299		Used client sample: N								
Perchlorate	DUP	2018049-02	6.0466	6.2378		ug/L	3.1		15	
	MS	2018049-02	6.0466	17.149	10.101	ug/L		110		80 - 120
	MSD	2018049-02	6.0466	17.253	10.101	ug/L	0.6	111	15	80 - 120
QC Batch ID: B081314		Used client sample: Y - Description: MW-11-5, 06/22/2020 09:30								
Nitrite as N	DUP	2017925-02	ND	ND		mg/L			10	
	MS	2017925-02	ND	0.51276	0.52632	mg/L		97.4		90 - 110
	MSD	2017925-02	ND	0.51711	0.52632	mg/L	0.8	98.3	10	90 - 110

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080861						
Hexavalent Chromium	B080861-BLK1	0.000033000	mg/L	0.00020	0.000032	J
QC Batch ID: B081040						
Total Recoverable Iron	B081040-BLK1	ND	ug/L	50	30	
QC Batch ID: B081094						
Total Recoverable Arsenic	B081094-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B081094-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B081094-BLK1	ND	ug/L	1.0	0.10	

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
QC Batch ID: B080861											
Hexavalent Chromium	B080861-BS1	LCS	0.018698	0.020000	mg/L	93.5		90 - 110			
QC Batch ID: B081040											
Total Recoverable Iron	B081040-BS1	LCS	1035.6	1000.0	ug/L	104		85 - 115			
QC Batch ID: B081094											
Total Recoverable Arsenic	B081094-BS1	LCS	111.10	100.00	ug/L	111		85 - 115			
Total Recoverable Chromium	B081094-BS1	LCS	44.035	40.000	ug/L	110		85 - 115			
Total Recoverable Lead	B081094-BS1	LCS	111.88	100.00	ug/L	112		85 - 115			

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: B080861		Used client sample: Y - Description: MW-11-5, 06/22/2020 09:30								
Hexavalent Chromium	DUP	2017925-02	0.000068000	0.000062000		mg/L	9.2		10	J
	MS	2017925-02	0.000068000	0.019262	0.020202	mg/L		95.0	90 - 110	
	MSD	2017925-02	0.000068000	0.019262	0.020202	mg/L	0	95.0	10 90 - 110	
QC Batch ID: B081040		Used client sample: Y - Description: MW-11-5, 06/22/2020 09:30								
Total Recoverable Iron	DUP	2017925-02	2806.8	2806.6		ug/L	0.0		20	
	MS	2017925-02	2806.8	4118.1	1000.0	ug/L		131	75 - 125	Q03
	MSD	2017925-02	2806.8	4039.2	1000.0	ug/L	1.9	123	20 75 - 125	
QC Batch ID: B081094		Used client sample: Y - Description: EB-10-062220, 06/22/2020 14:15								
Total Recoverable Arsenic	DUP	2017925-08	ND	ND		ug/L			20	
	MS	2017925-08	ND	108.87	100.00	ug/L		109	70 - 130	
	MSD	2017925-08	ND	112.79	100.00	ug/L	3.5	113	20 70 - 130	
Total Recoverable Chromium	DUP	2017925-08	ND	ND		ug/L			20	
	MS	2017925-08	ND	43.960	40.000	ug/L		110	70 - 130	
	MSD	2017925-08	ND	44.057	40.000	ug/L	0.2	110	20 70 - 130	
Total Recoverable Lead	DUP	2017925-08	ND	ND		ug/L			20	
	MS	2017925-08	ND	112.12	100.00	ug/L		112	70 - 130	
	MSD	2017925-08	ND	113.24	100.00	ug/L	1.0	113	20 70 - 130	

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Reported: 07/08/2020 16:46
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A07 Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
- Q03 Matrix spike recovery(s) was(were) not within the control limits.
- S05 The sample holding time was exceeded.
- V01 The Initial Calibration Verification (ICV) recovery is not within established control limits.
- V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.



Date of Report: 07/07/2020

David Conner

Tidewater Inc. - Powell

3761 Attucks Drive

Powell, OH 43065

Client Project: 2Q20

BCL Project: JPL- GW Monitoring Wells

BCL Work Order: 2018049

Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 6/23/2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda

Client Service Rep

Stuart Buttram

Technical Director

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

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Chain of Custody Form

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Reason To: Client: Tidewater, Inc.
Client: Tidewater, Inc.
ATTN: David Conner
Street address: 3761 Attucks Drive
City: Powell **State:** OH **Zip:** 43065
Phone: 626 1288 - 5715 **Fax:** 614 792-2897
Email Address: david.conner@twdh2o.net
Submission #: 20-18099

Project Description: JPL-GW Monitoring
Project Code: 2020
Sampler (s): Blaine Tech

Analysis Requested:
 VOCs EPA 524.2
 TRM: Cr, Pb, As, Ca, Mg, K, Na, Fe
 Hexavalent Cr 6-218.6 (mg/L)
 Cl, NO3, NO2, SO4, Perch.
 CO3, HCO3, Alk, TDS, pH
 Orthophosphate 365.1
 1,4 Dioxane 8270SM
 NDMA 1625M
 PAHs, Phthalates, Phenols

Sample #	Sample Description	Date	Time	Matrix*
-1	TB-11-062320	6/23/20	0800	U
-2	MU-14-3		0900	
-3	SB-11-062320		1430	
-4	MU-21-5		1750	
-5	MU-21-4		1145	
-6	MU-21-3		1330	
-7	MU-21-2		1350	
-8	Dg-10-262020		1415	

Notes: Level IV + MS/MSD
 CHK BY: DISTRIBUTION
 GSA M-NVA
 SUB-OUT
 PAH SHIP HOLDING TIME
 (Cl-0) (NO3) (NO2) OF SS
 DO O2 BOD MBAS OUT

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

Comments:
 PLEASE NOTIFY 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)

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

Global ID:
 1. Relinquished By: [Signature] Date: 6/23/20 Time: 1530
 2. Relinquished By: [Signature] Date: 6-23-20 Time: 4301
 3. Relinquished By: [Signature] Date: 6-23-20 Time: 1805

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

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BC LABORATORIES INC.		COOLER RECEIPT FORM		Page <u>1</u> Of <u>1</u>	
Submission #: <u>2018049</u>					
SHIPPING INFORMATION			SHIPPING CONTAINER		FREE LIQUID
Fed Ex <input type="checkbox"/>	UPS <input type="checkbox"/>	Ontrac <input type="checkbox"/>	Hand Delivery <input type="checkbox"/>	Ice Chest <input checked="" type="checkbox"/>	None <input type="checkbox"/>
BC Lab Field Service <input checked="" type="checkbox"/>	Other <input type="checkbox"/> (Specify)		Other <input type="checkbox"/> (Specify)		Box <input type="checkbox"/>
					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"/> 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		Emissivity: <u>0.9T</u>		Container: <u>VOA</u>	
<input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Thermometer ID: <u>208</u>		Date/Time: <u>6/23/1805</u>	
		Temperature: (A) <u>1.0</u> °C / (C) <u>1.0</u> °C		Analyst Init: <u>GSP</u>	

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES		LM	E	E	E	E	E	E		
4oz / 8oz / 16oz PE UNPRES		N	F	F	F	F	F	F		
2oz Cr ⁴		JK	D							
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz		D	G	G	G	G	G	G		
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A									
40ml VOA VIAL		A-ZL	ABC	ABC	ABC	ABC	ABC	ABC		
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/808										
QT EPA 515.1/815										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8270										
3oz / 16oz / 32oz AMBER										
3oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____
 Sample Numbering Completed By: GSP Date/Time: 6/23 1850 Rev 21 05/23/2016
 A = Actual / C = Corrected IS:\WP\del\Work\PerfectLAB_DOC\FORMS\SAW\REV 20

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

Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2018049-01	COC Number: --- Project Number: JPL GW Monitoring Sampling Location: --- Sampling Point: TB-11-062320 Sampled By: Blaine Tech of BTST	Receive Date: 06/23/2020 18:05 Sampling Date: 06/23/2020 08:00 Sample Depth: --- Lab Matrix: Water Sample Type: Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-11-062320 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

2018049-02	COC Number: --- Project Number: JPL GW Monitoring Sampling Location: --- Sampling Point: MW-14-3 Sampled By: Blaine Tech of BTST	Receive Date: 06/23/2020 18:05 Sampling Date: 06/23/2020 09:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-14-3 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

2018049-03	COC Number: --- Project Number: JPL GW Monitoring Sampling Location: --- Sampling Point: EB-11-062320 Sampled By: Blaine Tech of BTST	Receive Date: 06/23/2020 18:05 Sampling Date: 06/23/2020 14:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-11-062320 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

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

Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2018049-04	COC Number: --- Project Number: JPL GW Monitoring Sampling Location: --- Sampling Point: MW-21-5 Sampled By: Blaine Tech of BTST	Receive Date: 06/23/2020 18:05 Sampling Date: 06/23/2020 12:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-21-5 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

2018049-05	COC Number: --- Project Number: JPL GW Monitoring Sampling Location: --- Sampling Point: MW-21-4 Sampled By: Blaine Tech of BTST	Receive Date: 06/23/2020 18:05 Sampling Date: 06/23/2020 11:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-21-4 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

2018049-06	COC Number: --- Project Number: JPL GW Monitoring Sampling Location: --- Sampling Point: MW-21-3 Sampled By: Blaine Tech of BTST	Receive Date: 06/23/2020 18:05 Sampling Date: 06/23/2020 13:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-21-3 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

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

Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2018049-07	COC Number: --- Project Number: JPL GW Monitoring Sampling Location: --- Sampling Point: MW-21-2 Sampled By: Blaine Tech of BTST	Receive Date: 06/23/2020 18:05 Sampling Date: 06/23/2020 13:50 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-21-2 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

2018049-08	COC Number: --- Project Number: JPL GW Monitoring Sampling Location: --- Sampling Point: DUP-6-2Q2020 Sampled By: Blaine Tech of BTST	Receive Date: 06/23/2020 18:05 Sampling Date: 06/23/2020 14:15 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): DUP-6-2Q2020 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2018049-01	Client Sample Name:	JPL GW Monitoring, TB-11-062320, 6/23/2020 8:00:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1	
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1	
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1	
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1	
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1	
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1	
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	

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

Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018049-01	Client Sample Name: JPL GW Monitoring, TB-11-062320, 6/23/2020 8:00:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
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	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	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: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018049-01	Client Sample Name: JPL GW Monitoring, TB-11-062320, 6/23/2020 8:00:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	118	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/24/20 08:00	06/24/20 14:43	MGC	MS-V5	1	B080915	EPA 524.2

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

Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2018049-01	Client Sample Name: JPL GW Monitoring, TB-11-062320, 6/23/2020 8:00:00AM, Blaine Tech
----------------------------------	--

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/24/20 08:00	06/24/20	14:43	MGC	MS-V5	1	B080915	EPA 524.2

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

Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018049-02		Client Sample Name: JPL GW Monitoring, MW-14-3, 6/23/2020 9:00:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	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	0.65	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	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: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018049-02		Client Sample Name: JPL GW Monitoring, MW-14-3, 6/23/2020 9:00:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
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	0.19	ug/L	0.50	0.19	EPA-524.2	ND	J	1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	1.9	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	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	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: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018049-02	Client Sample Name: JPL GW Monitoring, MW-14-3, 6/23/2020 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	122	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/24/20 08:00	06/24/20 12:19	MGC	MS-V5	1	B080915	EPA 524.2

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Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2018049-02	Client Sample Name: JPL GW Monitoring, MW-14-3, 6/23/2020 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/24/20 08:00	06/24/20	12:19	MGC	MS-V5	1	B080915	EPA 524.2

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Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2018049-02		Client Sample Name: JPL GW Monitoring, MW-14-3, 6/23/2020 9:00:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	120	mg/L	0.10	0.014	EPA-200.7	ND		1	
Total Recoverable Magnesium	47	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	45	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	3.0	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	270	mg/L	10	10	SM-2320B	ND	A07	2	
Carbonate	ND	mg/L	5.0	5.0	SM-2320B	ND	A07	2	
Total Alkalinity as CaCO3	220	mg/L	8.2	8.2	SM-2320B	ND	A07	2	
Chloride	100	mg/L	0.50	0.13	EPA-300.0	0.16		3	
Nitrate as N	12	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	160	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	7.75	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	740	mg/L	33	17	EPA-160.1	ND	A07	5	
Nitrite as N	0.39	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	6.0	ug/L	4.0	0.81	EPA-314.0	ND		7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/25/20 18:10	06/30/20	15:02	JRG	PE-OP4	1	B081082	EPA 200.2
2	SM-2320B	06/25/20 07:00	06/25/20	08:02	MEV	MET-1	2	B067992	No Prep
3	EPA-300.0	06/23/20 19:00	06/23/20	21:02	KB1	IC7	1	B080908	No Prep
4	EPA-150.1	06/25/20 07:00	06/25/20	08:02	MEV	MET-1	1	B067992	No Prep
5	EPA-160.1	06/25/20 13:00	06/25/20	13:00	CAD	MANUAL	3.333	B081025	No Prep
6	EPA-353.2	06/23/20 19:00	06/23/20	19:47	CMM	KONE-1	1	B081006	No Prep
7	EPA-314.0	06/30/20 09:00	07/01/20	02:47	SAV	IC6	1	B081299	No Prep

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Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2018049-02	Client Sample Name: JPL GW Monitoring, MW-14-3, 6/23/2020 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00010	mg/L	0.00020	0.000032	EPA-218.6	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	0.64	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	130	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/24/20 21:00	06/25/20 12:53		SAV	IC-4	1	B081057	No Prep
2	EPA-200.8	06/25/20 19:40	06/26/20 08:53		JNC	PE-EL2	1	B081083	EPA 200.2
3	EPA-200.7	06/25/20 18:10	06/30/20 15:02		JRG	PE-OP4	1	B081082	EPA 200.2

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Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018049-03	Client Sample Name: JPL GW Monitoring, EB-11-062320, 6/23/2020 2:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018049-03	Client Sample Name: JPL GW Monitoring, EB-11-062320, 6/23/2020 2:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	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: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018049-03	Client Sample Name: JPL GW Monitoring, EB-11-062320, 6/23/2020 2:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	114	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/24/20 08:00	06/24/20 15:07	MGC	MS-V5	1	B080915	EPA 524.2

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Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2018049-03	Client Sample Name: JPL GW Monitoring, EB-11-062320, 6/23/2020 2:30:00PM, Blaine Tech
----------------------------------	--

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/24/20 08:00	06/24/20	15:07	MGC	MS-V5	1	B080915	EPA 524.2

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Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2018049-03		Client Sample Name: JPL GW Monitoring, EB-11-062320, 6/23/2020 2:30:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	0.097	mg/L	0.10	0.014	EPA-200.7	ND	J	1
Total Recoverable Magnesium	0.030	mg/L	0.050	0.019	EPA-200.7	ND	J	1
Total Recoverable Sodium	0.24	mg/L	0.50	0.051	EPA-200.7	ND	J	1
Total Recoverable Potassium	ND	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	ND	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	0.19	mg/L	0.50	0.13	EPA-300.0	0.16	J	3
Nitrate as N	ND	mg/L	0.10	0.024	EPA-300.0	ND		3
Sulfate	ND	mg/L	1.0	0.14	EPA-300.0	ND		3
pH	6.59	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	4.7	mg/L	6.7	3.3	EPA-160.1	ND	J	5
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/25/20 18:10	06/30/20	15:15	JRG	PE-OP4	1	B081082	EPA 200.2
2	SM-2320B	06/25/20 07:00	06/25/20	08:14	MEV	MET-1	1	B067992	No Prep
3	EPA-300.0	06/23/20 19:00	06/24/20	00:23	SAV	IC7	1	B080908	No Prep
4	EPA-150.1	06/25/20 07:00	06/25/20	08:14	MEV	MET-1	1	B067992	No Prep
5	EPA-160.1	06/25/20 13:00	06/25/20	13:00	CAD	MANUAL	0.667	B081025	No Prep
6	EPA-353.2	06/23/20 19:00	06/23/20	19:47	CMM	KONE-1	1	B081006	No Prep
7	EPA-314.0	06/30/20 09:00	07/01/20	03:53	SAV	IC6	1	B081299	No Prep

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Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2018049-03	Client Sample Name: JPL GW Monitoring, EB-11-062320, 6/23/2020 2:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000055	mg/L	0.00020	0.000032	EPA-218.6	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/24/20 21:00	06/25/20 13:31		SAV	IC-4	1	B081057	No Prep
2	EPA-200.8	06/25/20 19:40	06/26/20 09:12		JNC	PE-EL2	1	B081083	EPA 200.2
3	EPA-200.7	06/25/20 18:10	06/30/20 15:15		JRG	PE-OP4	1	B081082	EPA 200.2

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Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018049-04	Client Sample Name: JPL GW Monitoring, MW-21-5, 6/23/2020 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	9.5	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: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2018049-04) and Client Sample Name (JPL GW Monitoring, MW-21-5, 6/23/2020 12:30:00PM, Blaine Tech)

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

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Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018049-04	Client Sample Name: JPL GW Monitoring, MW-21-5, 6/23/2020 12:30:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	119	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	95.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/24/20 08:00	06/24/20 15:31	MGC	MS-V5	1	B080915	EPA 524.2

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Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2018049-04	Client Sample Name: JPL GW Monitoring, MW-21-5, 6/23/2020 12:30:00PM, Blaine Tech
----------------------------------	--

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/24/20 08:00	06/24/20	15:31	MGC	MS-V5	1	B080915	EPA 524.2

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Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2018049-04		Client Sample Name: JPL GW Monitoring, MW-21-5, 6/23/2020 12:30:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	87	mg/L	0.10	0.014	EPA-200.7	ND		1	
Total Recoverable Magnesium	26	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	36	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	2.5	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	200	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	160	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	75	mg/L	0.50	0.13	EPA-300.0	0.16		3	
Nitrate as N	6.9	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	120	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	8.01	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	540	mg/L	33	17	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	2.4	ug/L	4.0	0.81	EPA-314.0	ND	J	7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/25/20 18:10	06/30/20	15:21	JRG	PE-OP4	1	B081082	EPA 200.2
2	SM-2320B	06/25/20 07:00	06/25/20	08:21	MEV	MET-1	1	B067992	No Prep
3	EPA-300.0	06/23/20 19:00	06/23/20	22:36	KB1	IC7	1	B080908	No Prep
4	EPA-150.1	06/25/20 07:00	06/25/20	08:21	MEV	MET-1	1	B067992	No Prep
5	EPA-160.1	06/25/20 13:00	06/25/20	13:00	CAD	MANUAL	3.333	B081025	No Prep
6	EPA-353.2	06/23/20 19:00	06/23/20	19:47	CMM	KONE-1	1	B081006	No Prep
7	EPA-314.0	06/30/20 09:00	07/01/20	11:04	SAV	IC6	1	B081299	No Prep

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Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2018049-04	Client Sample Name: JPL GW Monitoring, MW-21-5, 6/23/2020 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0012	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	1.2	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	4.8	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	260	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	0.20	ug/L	1.0	0.10	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/24/20 21:00	06/25/20 13:41		SAV	IC-4	1	B081057	No Prep
2	EPA-200.8	06/25/20 19:40	06/26/20 09:14		JNC	PE-EL2	1	B081083	EPA 200.2
3	EPA-200.7	06/25/20 18:10	06/30/20 15:21		JRG	PE-OP4	1	B081082	EPA 200.2

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Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018049-05	Client Sample Name: JPL GW Monitoring, MW-21-4, 6/23/2020 11:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	7.8	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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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Lists various chemical constituents and their analysis results.

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Powell, OH 43065

Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018049-05	Client Sample Name: JPL GW Monitoring, MW-21-4, 6/23/2020 11:45:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	120	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/24/20 08:00	06/24/20 15:55	MGC	MS-V5	1	B080915	EPA 524.2

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Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2018049-05	Client Sample Name: JPL GW Monitoring, MW-21-4, 6/23/2020 11:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/24/20 08:00	06/24/20	15:55	MGC	MS-V5	1	B080915	EPA 524.2

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Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2018049-05		Client Sample Name: JPL GW Monitoring, MW-21-4, 6/23/2020 11:45:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	110	mg/L	0.10	0.014	EPA-200.7	ND		1	
Total Recoverable Magnesium	33	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	34	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	2.6	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	230	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	180	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	96	mg/L	0.50	0.13	EPA-300.0	0.16		3	
Nitrate as N	8.4	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	140	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	7.62	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	640	mg/L	33	17	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	3.7	ug/L	4.0	0.81	EPA-314.0	ND	J	7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/25/20 18:10	06/30/20	15:24	JRG	PE-OP4	1	B081082	EPA 200.2
2	SM-2320B	06/25/20 07:00	06/25/20	08:28	MEV	MET-1	1	B067992	No Prep
3	EPA-300.0	06/23/20 19:00	06/23/20	22:53	KB1	IC7	1	B080908	No Prep
4	EPA-150.1	06/25/20 07:00	06/25/20	08:28	MEV	MET-1	1	B067992	No Prep
5	EPA-160.1	06/25/20 13:00	06/25/20	13:00	CAD	MANUAL	3.333	B081025	No Prep
6	EPA-353.2	06/23/20 19:00	06/23/20	19:47	CMM	KONE-1	1	B081006	No Prep
7	EPA-314.0	06/30/20 09:00	07/01/20	11:21	SAV	IC6	1	B081299	No Prep

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Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2018049-05	Client Sample Name: JPL GW Monitoring, MW-21-4, 6/23/2020 11:45:00AM, Blaine Tech								
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Hexavalent Chromium	0.0012	mg/L	0.00020	0.000032	EPA-218.6	ND		1	
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2	
Total Recoverable Chromium	1.4	ug/L	3.0	0.50	EPA-200.8	ND	J	2	
Total Recoverable Iron	63	ug/L	50	30	EPA-200.7	ND		3	
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2	

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-218.6	06/24/20 21:00	06/25/20 13:51	SAV	IC-4	1	B081057	No Prep
2	EPA-200.8	06/25/20 19:40	06/26/20 09:15	JNC	PE-EL2	1	B081083	EPA 200.2
3	EPA-200.7	06/25/20 18:10	06/30/20 15:24	JRG	PE-OP4	1	B081082	EPA 200.2

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Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018049-06	Client Sample Name: JPL GW Monitoring, MW-21-3, 6/23/2020 1:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.71	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: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018049-06	Client Sample Name: JPL GW Monitoring, MW-21-3, 6/23/2020 1:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	2.3	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	2.0	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	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: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018049-06	Client Sample Name: JPL GW Monitoring, MW-21-3, 6/23/2020 1:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	117	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/24/20 08:00	06/24/20 16:19	MGC	MS-V5	1	B080915	EPA 524.2

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Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2018049-06	Client Sample Name: JPL GW Monitoring, MW-21-3, 6/23/2020 1:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/24/20 08:00	06/24/20	16:19	MGC	MS-V5	1	B080915	EPA 524.2

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3761 Attucks Drive
Powell, OH 43065

Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2018049-06		Client Sample Name: JPL GW Monitoring, MW-21-3, 6/23/2020 1:30:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	140	mg/L	0.10	0.014	EPA-200.7	ND		1	
Total Recoverable Magnesium	42	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	58	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	3.4	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	360	mg/L	10	10	SM-2320B	ND	A07	2	
Carbonate	ND	mg/L	5.0	5.0	SM-2320B	ND	A07	2	
Total Alkalinity as CaCO3	290	mg/L	8.2	8.2	SM-2320B	ND	A07	2	
Chloride	130	mg/L	0.50	0.13	EPA-300.0	0.16		3	
Nitrate as N	9.7	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	160	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	7.34	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	820	mg/L	50	25	EPA-160.1	ND	A07	5	
Nitrite as N	0.082	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	3.2	ug/L	4.0	0.81	EPA-314.0	ND	J	7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/25/20 18:10	06/30/20	15:26	JRG	PE-OP4	1	B081082	EPA 200.2
2	SM-2320B	06/25/20 07:00	06/25/20	08:35	MEV	MET-1	2	B067992	No Prep
3	EPA-300.0	06/23/20 19:00	06/23/20	23:11	SAV	IC7	1	B080908	No Prep
4	EPA-150.1	06/25/20 07:00	06/25/20	08:35	MEV	MET-1	1	B067992	No Prep
5	EPA-160.1	06/25/20 13:00	06/25/20	13:00	CAD	MANUAL	5	B081025	No Prep
6	EPA-353.2	06/23/20 19:00	06/23/20	19:47	CMM	KONE-1	1	B081006	No Prep
7	EPA-314.0	06/30/20 09:00	07/01/20	11:37	SAV	IC6	1	B081299	No Prep

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Powell, OH 43065

Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2018049-06	Client Sample Name: JPL GW Monitoring, MW-21-3, 6/23/2020 1:30:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00018	mg/L	0.00020	0.000032	EPA-218.6	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	7.6	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	480	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	0.12	ug/L	1.0	0.10	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/24/20 21:00	06/25/20	14:00	SAV	IC-4	1	B081057	No Prep
2	EPA-200.8	06/25/20 19:40	06/26/20	09:17	JNC	PE-EL2	1	B081083	EPA 200.2
3	EPA-200.7	06/25/20 18:10	06/30/20	15:26	JRG	PE-OP4	1	B081082	EPA 200.2

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Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018049-07	Client Sample Name: JPL GW Monitoring, MW-21-2, 6/23/2020 1:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND	V11	1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.47	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018049-07	Client Sample Name: JPL GW Monitoring, MW-21-2, 6/23/2020 1:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	2.0	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	0.27	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	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	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: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018049-07	Client Sample Name: JPL GW Monitoring, MW-21-2, 6/23/2020 1:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	121	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/24/20 08:00	06/24/20 16:43	MGC	MS-V5	1	B080915	EPA 524.2

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Powell, OH 43065

Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2018049-07	Client Sample Name: JPL GW Monitoring, MW-21-2, 6/23/2020 1:50:00PM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/24/20 08:00	06/24/20	16:43	MGC	MS-V5	1	B080915	EPA 524.2

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Powell, OH 43065

Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2018049-07		Client Sample Name: JPL GW Monitoring, MW-21-2, 6/23/2020 1:50:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	160	mg/L	0.10	0.014	EPA-200.7	ND		1	
Total Recoverable Magnesium	51	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	58	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	3.0	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	350	mg/L	10	10	SM-2320B	ND	A07	2	
Carbonate	ND	mg/L	5.0	5.0	SM-2320B	ND	A07	2	
Total Alkalinity as CaCO3	290	mg/L	8.2	8.2	SM-2320B	ND	A07	2	
Chloride	170	mg/L	0.50	0.13	EPA-300.0	0.16		3	
Nitrate as N	4.6	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	170	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	7.30	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	880	mg/L	50	25	EPA-160.1	ND	A07	5	
Nitrite as N	0.39	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	1.9	ug/L	4.0	0.81	EPA-314.0	ND	J	7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/25/20 18:10	06/30/20	15:28	JRG	PE-OP4	1	B081082	EPA 200.2
2	SM-2320B	06/25/20 07:00	06/25/20	08:42	MEV	MET-1	2	B067992	No Prep
3	EPA-300.0	06/23/20 19:00	06/23/20	23:29	SAV	IC7	1	B080908	No Prep
4	EPA-150.1	06/25/20 07:00	06/25/20	08:42	MEV	MET-1	1	B067992	No Prep
5	EPA-160.1	06/25/20 13:00	06/25/20	13:00	CAD	MANUAL	5	B081025	No Prep
6	EPA-353.2	06/23/20 19:00	06/23/20	19:49	CMM	KONE-1	1	B081006	No Prep
7	EPA-314.0	06/30/20 09:00	07/01/20	11:54	SAV	IC6	1	B081299	No Prep

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Powell, OH 43065

Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2018049-07	Client Sample Name: JPL GW Monitoring, MW-21-2, 6/23/2020 1:50:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.000056	mg/L	0.00020	0.000032	EPA-218.6	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	7.0	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	380	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/24/20 21:00	06/25/20	14:29	SAV	IC-4	1	B081057	No Prep
2	EPA-200.8	06/25/20 19:40	06/26/20	09:19	JNC	PE-EL2	1	B081083	EPA 200.2
3	EPA-200.7	06/25/20 18:10	06/30/20	15:28	JRG	PE-OP4	1	B081082	EPA 200.2

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Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2018049-08) and Client Sample Name (JPL GW Monitoring, DUP-6-2Q2020, 6/23/2020 2:15:00PM, Blaine Tech)

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

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Tidewater Inc. - Powell
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Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2018049-08) and Client Sample Name (JPL GW Monitoring, DUP-6-2Q2020, 6/23/2020 2:15:00PM, Blaine Tech)

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

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

Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018049-08	Client Sample Name: JPL GW Monitoring, DUP-6-2Q2020, 6/23/2020 2:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	122	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/24/20 08:00	06/24/20 17:07	MGC	MS-V5	1	B080915	EPA 524.2

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Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2018049-08	Client Sample Name: JPL GW Monitoring, DUP-6-2Q2020, 6/23/2020 2:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/24/20 08:00	06/24/20	17:07	MGC	MS-V5	1	B080915	EPA 524.2

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Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2018049-08		Client Sample Name: JPL GW Monitoring, DUP-6-2Q2020, 6/23/2020 2:15:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	160	mg/L	0.10	0.014	EPA-200.7	ND		1	
Total Recoverable Magnesium	49	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	56	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	3.0	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	340	mg/L	10	10	SM-2320B	ND	A07	2	
Carbonate	ND	mg/L	5.0	5.0	SM-2320B	ND	A07	2	
Total Alkalinity as CaCO3	280	mg/L	8.2	8.2	SM-2320B	ND	A07	2	
Chloride	170	mg/L	0.50	0.13	EPA-300.0	0.16		3	
Nitrate as N	5.4	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	170	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	7.28	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	920	mg/L	50	25	EPA-160.1	ND	A07	5	
Nitrite as N	0.29	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	1.8	ug/L	4.0	0.81	EPA-314.0	ND	J	7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/25/20 18:10	06/30/20	15:30	JRG	PE-OP4	1	B081082	EPA 200.2
2	SM-2320B	06/25/20 07:00	06/25/20	08:49	MEV	MET-1	2	B067992	No Prep
3	EPA-300.0	06/23/20 19:00	06/24/20	00:41	SAV	IC7	1	B080908	No Prep
4	EPA-150.1	06/25/20 07:00	06/25/20	08:49	MEV	MET-1	1	B067992	No Prep
5	EPA-160.1	06/25/20 13:00	06/25/20	13:00	CAD	MANUAL	5	B081025	No Prep
6	EPA-353.2	06/23/20 19:00	06/23/20	19:49	CMM	KONE-1	1	B081006	No Prep
7	EPA-314.0	06/30/20 09:00	07/01/20	05:49	SAV	IC6	1	B081299	No Prep

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Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2018049-08	Client Sample Name: JPL GW Monitoring, DUP-6-2Q2020, 6/23/2020 2:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00036	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	0.88	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	110	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/24/20 21:00	06/25/20	14:39	SAV	IC-4	1	B081057	No Prep
2	EPA-200.8	06/25/20 19:40	06/26/20	09:20	JNC	PE-EL2	1	B081083	EPA 200.2
3	EPA-200.7	06/25/20 18:10	06/30/20	15:30	JRG	PE-OP4	1	B081082	EPA 200.2

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Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080915						
Benzene	B080915-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B080915-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B080915-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B080915-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B080915-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B080915-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B080915-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B080915-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B080915-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B080915-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B080915-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B080915-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B080915-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B080915-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B080915-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B080915-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B080915-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B080915-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B080915-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B080915-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B080915-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B080915-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B080915-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B080915-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B080915-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B080915-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B080915-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B080915-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B080915-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B080915-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B080915-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B080915-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B080915-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B080915-BLK1	ND	ug/L	0.50	0.14	

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Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080915						
trans-1,3-Dichloropropene	B080915-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B080915-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B080915-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B080915-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B080915-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B080915-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B080915-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B080915-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B080915-BLK1	ND	ug/L	0.50	0.12	
Styrene	B080915-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B080915-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2,2-Tetrachloroethane	B080915-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B080915-BLK1	ND	ug/L	0.50	0.23	
Toluene	B080915-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B080915-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B080915-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B080915-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B080915-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B080915-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B080915-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B080915-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B080915-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B080915-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B080915-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B080915-BLK1	ND	ug/L	0.50	0.18	
Acetone	B080915-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B080915-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B080915-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B080915-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B080915-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	B080915-BLK1	ND	ug/L	1.0	0.48	
trans-1,4-Dichloro-2-butene	B080915-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B080915-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B080915-BLK1	ND	ug/L	4.0	1.3	

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Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080915						
Ethyl t-butyl ether	B080915-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B080915-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B080915-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B080915-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B080915-BLK1	ND	ug/L	10	3.3	
Methyl iodide	B080915-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B080915-BLK1	ND	ug/L	10	2.4	
Methyl methacrylate	B080915-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B080915-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B080915-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B080915-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B080915-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B080915-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B080915-BLK1	117	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B080915-BLK1	96.2	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B080915-BLK1	98.4	%	80 - 120 (LCL - UCL)		

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Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: B080915										
Benzene	B080915-BS1	LCS	28.210	25.000	ug/L	113		70 - 130		
Bromodichloromethane	B080915-BS1	LCS	30.280	25.000	ug/L	121		70 - 130		
Chlorobenzene	B080915-BS1	LCS	23.930	25.000	ug/L	95.7		70 - 130		
Chloroethane	B080915-BS1	LCS	29.330	25.000	ug/L	117		70 - 130		
1,4-Dichlorobenzene	B080915-BS1	LCS	24.810	25.000	ug/L	99.2		70 - 130		
1,1-Dichloroethane	B080915-BS1	LCS	30.050	25.000	ug/L	120		70 - 130		
1,1-Dichloroethene	B080915-BS1	LCS	30.300	25.000	ug/L	121		70 - 130		
Toluene	B080915-BS1	LCS	25.500	25.000	ug/L	102		70 - 130		
Trichloroethene	B080915-BS1	LCS	27.740	25.000	ug/L	111		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B080915-BS1	LCS	12.360	10.000	ug/L	124		75 - 125		
Toluene-d8 (Surrogate)	B080915-BS1	LCS	9.8600	10.000	ug/L	98.6		80 - 120		
4-Bromofluorobenzene (Surrogate)	B080915-BS1	LCS	10.260	10.000	ug/L	103		80 - 120		

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Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: B080915		Used client sample: Y - Description: MW-14-3, 06/23/2020 09:00								
Benzene	MS	2018049-02	ND	28.430	25.000	ug/L		114		70 - 130
	MSD	2018049-02	ND	27.450	25.000	ug/L	3.5	110	20	70 - 130
Bromodichloromethane	MS	2018049-02	ND	31.630	25.000	ug/L		127		70 - 130
	MSD	2018049-02	ND	31.390	25.000	ug/L	0.8	126	20	70 - 130
Chlorobenzene	MS	2018049-02	ND	24.760	25.000	ug/L		99.0		70 - 130
	MSD	2018049-02	ND	23.940	25.000	ug/L	3.4	95.8	20	70 - 130
Chloroethane	MS	2018049-02	ND	29.010	25.000	ug/L		116		70 - 130
	MSD	2018049-02	ND	28.240	25.000	ug/L	2.7	113	20	70 - 130
1,4-Dichlorobenzene	MS	2018049-02	ND	25.210	25.000	ug/L		101		70 - 130
	MSD	2018049-02	ND	24.820	25.000	ug/L	1.6	99.3	20	70 - 130
1,1-Dichloroethane	MS	2018049-02	0.65000	31.070	25.000	ug/L		122		70 - 130
	MSD	2018049-02	0.65000	29.870	25.000	ug/L	3.9	117	20	70 - 130
1,1-Dichloroethene	MS	2018049-02	ND	30.910	25.000	ug/L		124		70 - 130
	MSD	2018049-02	ND	29.210	25.000	ug/L	5.7	117	20	70 - 130
Toluene	MS	2018049-02	ND	25.970	25.000	ug/L		104		70 - 130
	MSD	2018049-02	ND	26.690	25.000	ug/L	2.7	107	20	70 - 130
Trichloroethene	MS	2018049-02	1.8800	29.290	25.000	ug/L		110		70 - 130
	MSD	2018049-02	1.8800	29.510	25.000	ug/L	0.7	111	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	2018049-02	ND	11.970	10.000	ug/L		120		75 - 125
	MSD	2018049-02	ND	11.680	10.000	ug/L	2.5	117		75 - 125
Toluene-d8 (Surrogate)	MS	2018049-02	ND	9.6300	10.000	ug/L		96.3		80 - 120
	MSD	2018049-02	ND	10.000	10.000	ug/L	3.8	100		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	2018049-02	ND	10.190	10.000	ug/L		102		80 - 120
	MSD	2018049-02	ND	10.050	10.000	ug/L	1.4	100		80 - 120

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

Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080915						
Chloroacetonitrile	B080915-BLK1	0	ug/L			
1-Chlorobutane	B080915-BLK1	0	ug/L			
1,1-Dichloropropanone	B080915-BLK1	0	ug/L			
Methyl acrylate	B080915-BLK1	0	ug/L			
Nitrobenzene	B080915-BLK1	0	ug/L			
2-Nitropropane	B080915-BLK1	0	ug/L			

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

Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B067992						
Bicarbonate	B067992-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B067992-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B067992-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: B080908						
Chloride	B080908-BLK1	0.15500	mg/L	0.50	0.13	J
Nitrate as N	B080908-BLK1	ND	mg/L	0.10	0.024	
Sulfate	B080908-BLK1	ND	mg/L	1.0	0.14	
QC Batch ID: B081006						
Nitrite as N	B081006-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: B081025						
Total Dissolved Solids @ 180 C	B081025-BLK1	ND	mg/L	6.7	3.3	
QC Batch ID: B081082						
Total Recoverable Calcium	B081082-BLK1	ND	mg/L	0.10	0.014	
Total Recoverable Magnesium	B081082-BLK1	ND	mg/L	0.050	0.019	
Total Recoverable Sodium	B081082-BLK1	ND	mg/L	0.50	0.051	
Total Recoverable Potassium	B081082-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: B081299						
Perchlorate	B081299-BLK1	ND	ug/L	4.0	0.81	

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

Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: B067992										
Total Alkalinity as CaCO3	B067992-BS3	LCS	96.150	100.00	mg/L	96.2		90 - 110		
pH	B067992-BS2	LCS	6.9900	7.0000	pH Units	99.9		95 - 105		
QC Batch ID: B080908										
Chloride	B080908-BS1	LCS	51.282	50.000	mg/L	103		90 - 110		
Nitrate as N	B080908-BS1	LCS	5.1070	5.0000	mg/L	102		90 - 110		
Sulfate	B080908-BS1	LCS	101.93	100.00	mg/L	102		90 - 110		
QC Batch ID: B081006										
Nitrite as N	B081006-BS1	LCS	0.49636	0.50000	mg/L	99.3		90 - 110		
QC Batch ID: B081025										
Total Dissolved Solids @ 180 C	B081025-BS1	LCS	585.00	586.00	mg/L	99.8		90 - 110		
QC Batch ID: B081082										
Total Recoverable Calcium	B081082-BS1	LCS	10.612	10.000	mg/L	106		85 - 115		
Total Recoverable Magnesium	B081082-BS1	LCS	10.693	10.000	mg/L	107		85 - 115		
Total Recoverable Sodium	B081082-BS1	LCS	10.577	10.000	mg/L	106		85 - 115		
Total Recoverable Potassium	B081082-BS1	LCS	10.119	10.000	mg/L	101		85 - 115		
QC Batch ID: B081299										
Perchlorate	B081299-BS1	LCS	9.1493	10.000	ug/L	91.5		85 - 115		

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

Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Qualls. Includes QC Batch IDs B067992, B080908, B081006, B081025, B081082, and B081299.

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

Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: B081299		Used client sample: Y - Description: MW-14-3, 06/23/2020 09:00								
Perchlorate	DUP	2018049-02	6.0466	6.2378		ug/L	3.1		15	
	MS	2018049-02	6.0466	17.149	10.101	ug/L		110		80 - 120
	MSD	2018049-02	6.0466	17.253	10.101	ug/L	0.6	111	15	80 - 120

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

Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B081057						
Hexavalent Chromium	B081057-BLK1	ND	mg/L	0.00020	0.000032	
QC Batch ID: B081082						
Total Recoverable Iron	B081082-BLK1	ND	ug/L	50	30	
QC Batch ID: B081083						
Total Recoverable Arsenic	B081083-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B081083-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B081083-BLK1	ND	ug/L	1.0	0.10	

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

Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B081057										
Hexavalent Chromium	B081057-BS1	LCS	0.019099	0.020000	mg/L	95.5		90 - 110		
QC Batch ID: B081082										
Total Recoverable Iron	B081082-BS1	LCS	1103.9	1000.0	ug/L	110		85 - 115		
QC Batch ID: B081083										
Total Recoverable Arsenic	B081083-BS1	LCS	112.74	100.00	ug/L	113		85 - 115		
Total Recoverable Chromium	B081083-BS1	LCS	44.761	40.000	ug/L	112		85 - 115		
Total Recoverable Lead	B081083-BS1	LCS	111.73	100.00	ug/L	112		85 - 115		

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3761 Attucks Drive
Powell, OH 43065

Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: B081057		Used client sample: Y - Description: MW-14-3, 06/23/2020 09:00								
Hexavalent Chromium	DUP	2018049-02	0.00010200	0.000093000		mg/L	9.2		10	J
	MS	2018049-02	0.00010200	0.019387	0.020202	mg/L		95.5	90 - 110	
	MSD	2018049-02	0.00010200	0.019506	0.020202	mg/L	0.6	96.1	10 90 - 110	
QC Batch ID: B081082		Used client sample: Y - Description: MW-14-3, 06/23/2020 09:00								
Total Recoverable Iron	DUP	2018049-02	134.18	132.98		ug/L	0.9		20	
	MS	2018049-02	134.18	1257.1	1000.0	ug/L		112	75 - 125	
	MSD	2018049-02	134.18	1261.3	1000.0	ug/L	0.3	113	20 75 - 125	
QC Batch ID: B081083		Used client sample: Y - Description: MW-14-3, 06/23/2020 09:00								
Total Recoverable Arsenic	DUP	2018049-02	ND	ND		ug/L			20	
	MS	2018049-02	ND	118.69	100.00	ug/L		119	70 - 130	
	MSD	2018049-02	ND	118.71	100.00	ug/L	0.0	119	20 70 - 130	
Total Recoverable Chromium	DUP	2018049-02	0.63500	ND		ug/L			20	
	MS	2018049-02	0.63500	41.721	40.000	ug/L		103	70 - 130	
	MSD	2018049-02	0.63500	42.446	40.000	ug/L	1.7	105	20 70 - 130	
Total Recoverable Lead	DUP	2018049-02	ND	ND		ug/L			20	
	MS	2018049-02	ND	107.93	100.00	ug/L		108	70 - 130	
	MSD	2018049-02	ND	109.22	100.00	ug/L	1.2	109	20 70 - 130	

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

Reported: 07/07/2020 9:45
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Notes And Definitions

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

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Date of Report: 07/09/2020

David Conner

Tidewater Inc. - Powell

3761 Attucks Drive

Powell, OH 43065

Client Project: 2Q20

BCL Project: JPL- GW Monitoring Wells

BCL Work Order: 2018201

Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 6/24/2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda

Client Service Rep

Stuart Buttram

Technical Director

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

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Chain of Custody Form

Page 1 of 1

Required Fields

Report To: Tidewater, Inc.
 Client: David Conner
 Attn: David Conner
 Street Address: 3761 Attucks Drive
 City: Powell State: OH Zip: 43065
 Phone: 628 1288 Fax: 614 792-2887
 Email Address: david.conner@tideh2o.net
 Submission #: 20-18201

Project Description: JPL-GW Monitoring
 Project Code: 2020
 Sampler(s): Blaine Tech

Matrix: L

Sample #	Sample Description	Date	Time	Matrix*
-1	TB-12-010420	6/24/20	0910	L
-2	ML-5		1109	L
-3	MD-10			L
-4	ML-9		1422	L
	ML-13			L

Notes: 100% HPLC MS/MSD 2/4

Analysis Requested:
 TRM: Cr, Pb, As, Ca, Mg, K
 VOCs EPA 524.2
 Na, Fe
 Hexavalent Cr-2186 (mg/L)
 Cl, NO3, NO2, SO4, Perch.
 CO3, HCO3, Alk, TDS, pH
 Orthophosphate 365.1
 1,4 Dioxane 8270SIM
 NDMA 1625M
 PAHs, Phthalates, Phenols

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 NOTIFY 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: 624201525
 1. Received By: [Signature] Date: 6/24/20 Time: 1525
 2. Received By: [Signature] Date: 6/24/20 Time: 1752
 3. Received By: [Signature] Date: 6/24/20 Time: 1752

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 = 30

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

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BC LABORATORIES INC. COOLER RECEIPT FORM Page Of

Submission #: 20-18201

SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Ontrac <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/> W / S
--	--	--	--	--

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____
 Intact? Yes No Intact? Yes No

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

COC Received YES NO Emissivity: 0.95 Container: PE Thermometer ID: 208 Date/Time: 6/24/15
 Temperature: (A) 1.7 °C / (C) 1.5 °C Analyst Init: GSP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES		D	D	D						
4oz (8oz) / 16oz PE UNPRES x44 x40		E	E	EF						
2oz Cr ⁶⁺		F	F	G						
QT INORGANIC CHEMICAL METALS										
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz		G	G	H						
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A									
40ml VOA VIAL		ABC	ABC	ABC						
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
8oz EPA 548										
QT EPA 549										
QT EPA 8015M										
QT EPA 8170										
8oz / 16oz / 32oz AMBER										
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCE VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUMMA CANISTER										

Comments: _____
 Sample Numbering Completed By: Jmm Date/Time: 6/24 1955 Rev 21 05/23/2016
 A = Actual / C = Corrected (S:\WP\Doc\WordPerfect\LAB_DOC\FORMS\SAMREC\hw 30)



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

Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2018201-01	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: TB-12-062420 Sampled By: Blaine Tech of BTST	Receive Date: 06/24/2020 17:52 Sampling Date: 06/24/2020 00:00 Sample Depth: --- Lab Matrix: Water Sample Type: Trip Blank Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-12-062420 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

2018201-02	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-5 Sampled By: Blaine Tech of BTST	Receive Date: 06/24/2020 17:52 Sampling Date: 06/24/2020 09:10 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-5 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	--	--

2018201-03	COC Number: --- Project Number: JPL Sampling Location: --- Sampling Point: MW-10 Sampled By: Blaine Tech of BTST	Receive Date: 06/24/2020 17:52 Sampling Date: 06/24/2020 11:09 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-10 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

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Powell, OH 43065

Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2018201-04	COC Number: ---	Receive Date: 06/24/2020 17:52
	Project Number: JPL	Sampling Date: 06/24/2020 14:22
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-13	Lab Matrix: Water
	Sampled By: Blaine Tech of BTST	Sample Type: Water
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-13
		Matrix: WG
		Sample QC Type (SACode): CS
		Cooler ID:

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

Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018201-01	Client Sample Name: JPL, TB-12-062420, 6/24/2020 12:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/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: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018201-01	Client Sample Name: JPL, TB-12-062420, 6/24/2020 12:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	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: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018201-01	Client Sample Name: JPL, TB-12-062420, 6/24/2020 12:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND	V11	1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	114	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/25/20 08:00	06/25/20 12:26	MGC	MS-V5	1	B080915	EPA 524.2

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Powell, OH 43065

Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2018201-01	Client Sample Name: JPL, TB-12-062420, 6/24/2020 12:00:00AM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/25/20 08:00	06/25/20	12:26	MGC	MS-V5	1	B080915	EPA 524.2

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Powell, OH 43065

Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018201-02	Client Sample Name: JPL, MW-5, 6/24/2020 9:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/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: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2018201-02) and Client Sample Name (JPL, MW-5, 6/24/2020 9:10:00AM, Blaine Tech)

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

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Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018201-02	Client Sample Name: JPL, MW-5, 6/24/2020 9:10:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND	V11	1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	119	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	95.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	97.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/25/20 08:00	06/25/20 12:50	MGC	MS-V5	1	B080915	EPA 524.2

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Powell, OH 43065

Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2018201-02	Client Sample Name: JPL, MW-5, 6/24/2020 9:10:00AM, Blaine Tech
----------------------------------	--

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/25/20 08:00	06/25/20	12:50	MGC	MS-V5	1	B080915	EPA 524.2

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Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Table with 2 columns: BCL Sample ID (2018201-02) and Client Sample Name (JPL, MW-5, 6/24/2020 9:10:00AM, Blaine Tech)

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

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Tidewater Inc. - Powell
3761 Attucks Drive
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Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2018201-02		Client Sample Name: JPL, MW-5, 6/24/2020 9:10:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	0.53	EPA-8270C	ND		1
Dieldrin	ND	ug/L	3.0	0.39	EPA-8270C	ND		1
Diethyl phthalate	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.40	EPA-8270C	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Endosulfan I	ND	ug/L	10	0.31	EPA-8270C	ND		1
Endosulfan II	ND	ug/L	10	0.30	EPA-8270C	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.23	EPA-8270C	ND		1
Endrin	ND	ug/L	2.0	0.38	EPA-8270C	ND		1
Endrin aldehyde	ND	ug/L	10	0.44	EPA-8270C	ND		1
Fluoranthene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Fluorene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Heptachlor	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
Hexachlorobenzene	ND	ug/L	2.0	0.25	EPA-8270C	ND		1
Hexachlorobutadiene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Hexachlorocyclopentadiene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
Hexachloroethane	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.29	EPA-8270C	ND		1
Isophorone	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Naphthalene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2-Naphthylamine	ND	ug/L	20	1.3	EPA-8270C	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.38	EPA-8270C	ND		1
Nitrobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1

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Tidewater Inc. - Powell
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Powell, OH 43065

Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2018201-02		Client Sample Name: JPL, MW-5, 6/24/2020 9:10:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.0	1.2	EPA-8270C	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Pyrene	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.20	EPA-8270C	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.24	EPA-8270C	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-8270C	ND		1
2-Methylphenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	0.40	EPA-8270C	ND		1
Total Methylphenol	ND	ug/L	4.0	0.60	EPA-8270C	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Pentachlorophenol	ND	ug/L	10	0.40	EPA-8270C	ND		1
Phenol	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.20	EPA-8270C	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.20	EPA-8270C	ND		1
Acetophenone	ND	ug/L	10	0.33	EPA-8270C	ND		1
2-Acetylaminofluorene	ND	ug/L	10	0.78	EPA-8270C	ND		1
Acrolein, dimethyl acetal	ND	ug/L	40	6.1	EPA-8270C	ND		1
4-Aminobiphenyl	ND	ug/L	20	0.35	EPA-8270C	ND		1
Aramite	ND	ug/L	10	0.35	EPA-8270C	ND		1
Benzaldehyde	ND	ug/L	10	2.9	EPA-8270C	ND		1
Benefin	ND	ug/L	10	0.88	EPA-8270C	ND		1
1,1-Biphenyl	ND	ug/L	10	3.6	EPA-8270C	ND		1
Caprolactam	ND	ug/L	10	3.6	EPA-8270C	ND		1
Carbazole	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
cis-Chlordane	ND	ug/L	5.0	0.59	EPA-8270C	ND		1
trans-Chlordane	ND	ug/L	5.0	0.55	EPA-8270C	ND		1

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Powell, OH 43065

Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2018201-02		Client Sample Name: JPL, MW-5, 6/24/2020 9:10:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chlorobenzilate	ND	ug/L	10	0.27	EPA-8270C	ND		1
1-Chloronaphthalene	ND	ug/L	10	0.37	EPA-8270C	ND		1
cis-Diallate	ND	ug/L	5.0	2.4	EPA-8270C	ND		1
trans-Diallate	ND	ug/L	5.0	0.56	EPA-8270C	ND		1
Diallate	ND	ug/L	10	3.0	EPA-8270C	ND		1
2,6-Dichlorophenol	ND	ug/L	10	0.28	EPA-8270C	ND		1
Dimethoate	ND	ug/L	20	0.99	EPA-8270C	ND		1
p-(Dimethylamino)azobenzene	ND	ug/L	10	0.27	EPA-8270C	ND		1
7,12-Dimethylbenz[a]anthracene	ND	ug/L	10	0.37	EPA-8270C	ND		1
3,3'-Dimethylbenzidine	ND	ug/L	20	0.42	EPA-8270C	ND		1
a,a-Dimethylphenethylamine	ND	ug/L	20	4.9	EPA-8270C	ND		1
Dimethyl sulfoxide (DMSO)	ND	ug/L	10	9.5	EPA-8270C	ND		1
1,3-Dinitrobenzene	ND	ug/L	10	0.93	EPA-8270C	ND		1
Dinoseb	ND	ug/L	10	0.91	EPA-8270C	ND		1
Diphenylamine	ND	ug/L	10	0.61	EPA-8270C	ND		1
Disulfoton	ND	ug/L	10	0.33	EPA-8270C	ND		1
Ethyl methacrylate	ND	ug/L	10	1.2	EPA-8270C	ND		1
Ethyl methanesulfonate	ND	ug/L	10	0.61	EPA-8270C	ND		1
Ethyl Parathion	ND	ug/L	10	0.53	EPA-8270C	ND		1
Famphur	ND	ug/L	20	4.1	EPA-8270C	ND		1
Hexachlorophene	ND	ug/L	200	20	EPA-8270C	ND		1
Hexachloropropene	ND	ug/L	20	0.23	EPA-8270C	ND		1
Isodrin	ND	ug/L	10	0.43	EPA-8270C	ND		1
cis-Isosafrole	ND	ug/L	5.0	0.44	EPA-8270C	ND		1
trans-Isosafrole	ND	ug/L	5.0	0.29	EPA-8270C	ND		1
Isosafrole	ND	ug/L	10	0.73	EPA-8270C	ND		1
Kepone	ND	ug/L	20	2.2	EPA-8270C	ND		1
Methapyrilene	ND	ug/L	10	2.9	EPA-8270C	ND		1
Methoxychlor	ND	ug/L	10	0.20	EPA-8270C	ND		1
3-Methylcholanthrene	ND	ug/L	10	0.31	EPA-8270C	ND		1
Methyl methacrylate	ND	ug/L	40	3.8	EPA-8270C	ND		1
Methyl methanesulfonate	ND	ug/L	10	0.40	EPA-8270C	ND		1
1-Methylnaphthalene	ND	ug/L	10	0.26	EPA-8270C	ND		1

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Powell, OH 43065

Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Table with 2 columns: BCL Sample ID (2018201-02) and Client Sample Name (JPL, MW-5, 6/24/2020 9:10:00AM, Blaine Tech)

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

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Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Table with 2 columns: BCL Sample ID (2018201-02) and Client Sample Name (JPL, MW-5, 6/24/2020 9:10:00AM, Blaine Tech)

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

QC table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, Batch ID, Prep Method. Contains one row of QC data.

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Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

BCL Sample ID: 2018201-02		Client Sample Name: JPL, MW-5, 6/24/2020 9:10:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1-Acetyl-2-thiourea	0	ug/L			EPA-8270C	0		1
2-Aminoanthraquinone	0	ug/L			EPA-8270C	0		1
3-Amino-9-ethylcarbazole	0	ug/L			EPA-8270C	0		1
Anilazine	0	ug/L			EPA-8270C	0		1
o-Anisidine	0	ug/L			EPA-8270C	0		1
Azinphos methyl	0	ug/L			EPA-8270C	0		1
Barban	0	ug/L			EPA-8270C	0		1
p-Benzoquinone	0	ug/L			EPA-8270C	0		1
Bromoxynil	0	ug/L			EPA-8270C	0		1
Captafol	0	ug/L			EPA-8270C	0		1
Captan	0	ug/L			EPA-8270C	0		1
Carbaryl	0	ug/L			EPA-8270C	0		1
Carbofuran	0	ug/L			EPA-8270C	0		1
Carbophenothion	0	ug/L			EPA-8270C	0		1
Chlorfenvinphos	0	ug/L			EPA-8270C	0		1
5-Chloro-2-methylaniline	0	ug/L			EPA-8270C	0		1
3-(Chloromethyl) pyridine hydrochloride	0	ug/L			EPA-8270C	0		1
4-Chloro-1,2-phenylenediamine	0	ug/L			EPA-8270C	0		1
4-Chloro-1,3-phenylenediamine	0	ug/L			EPA-8270C	0		1
Coumaphos	0	ug/L			EPA-8270C	0		1
p-Cresidine	0	ug/L			EPA-8270C	0		1
Crotoxyphos	0	ug/L			EPA-8270C	0		1
2-Cyclohexyl-4,6-dinitrophenol	0	ug/L			EPA-8270C	0		1
Demeton-O	0	ug/L			EPA-8270C	0		1
Demeton-S	0	ug/L			EPA-8270C	0		1
2,4-Diaminotoluene	0	ug/L			EPA-8270C	0		1
Dibenz[a,j]acridine	0	ug/L			EPA-8270C	0		1
Dibenzo[a,e]pyrene	0	ug/L			EPA-8270C	0		1
1,2-Dibromo-3-chloropropane	0	ug/L			EPA-8270C	0		1
Dichlone	0	ug/L			EPA-8270C	0		1
Dichlorvos	0	ug/L			EPA-8270C	0		1
Dicrotophos	0	ug/L			EPA-8270C	0		1
Diethylstilbestrol	0	ug/L			EPA-8270C	0		1

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Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

BCL Sample ID: 2018201-02		Client Sample Name: JPL, MW-5, 6/24/2020 9:10:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl sulfate	0	ug/L			EPA-8270C	0		1
Dihydrosafrole	0	ug/L			EPA-8270C	0		1
3,3'-Dimethoxybenzidine	0	ug/L			EPA-8270C	0		1
1,2-Dinitrobenzene	0	ug/L			EPA-8270C	0		1
1,4-Dinitrobenzene	0	ug/L			EPA-8270C	0		1
Dinocap	0	ug/L			EPA-8270C	0		1
Dioxathion	0	ug/L			EPA-8270C	0		1
5,5-Diphenylhydantoin	0	ug/L			EPA-8270C	0		1
Endrin ketone	0	ug/L			EPA-8270C	0		1
EPN	0	ug/L			EPA-8270C	0		1
Ethion	0	ug/L			EPA-8270C	0		1
Ethyl carbamate	0	ug/L			EPA-8270C	0		1
Fensulfothion	0	ug/L			EPA-8270C	0		1
Fenthion	0	ug/L			EPA-8270C	0		1
Fluchloralin	0	ug/L			EPA-8270C	0		1
Hexamethylphosphoramide	0	ug/L			EPA-8270C	0		1
Hydroquinone	0	ug/L			EPA-8270C	0		1
Leptophos	0	ug/L			EPA-8270C	0		1
Malathion	0	ug/L			EPA-8270C	0		1
Maleic Anhydride	0	ug/L			EPA-8270C	0		1
Mestranol	0	ug/L			EPA-8270C	0		1
4,4'-Methylenebis(2-chloroaniline)	0	ug/L			EPA-8270C	0		1
4,4'-Methylenebis[N,N-dimethylaniline]	0	ug/L			EPA-8270C	0		1
Mevinphos	0	ug/L			EPA-8270C	0		1
Mexacarbate	0	ug/L			EPA-8270C	0		1
Mirex	0	ug/L			EPA-8270C	0		1
Monocrotophos	0	ug/L			EPA-8270C	0		1
Naled	0	ug/L			EPA-8270C	0		1
Nicotine	0	ug/L			EPA-8270C	0		1
5-Nitroacenaphthene	0	ug/L			EPA-8270C	0		1
5-Nitro-o-anisidine	0	ug/L			EPA-8270C	0		1
4-Nitrobiphenyl	0	ug/L			EPA-8270C	0		1
Nitrophen	0	ug/L			EPA-8270C	0		1

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Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

BCL Sample ID:	2018201-02	Client Sample Name:	JPL, MW-5, 6/24/2020 9:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Octamethylpyrophosphoramide	0	ug/L			EPA-8270C	0		1
4,4'-Oxydianiline	0	ug/L			EPA-8270C	0		1
Phenobarbital	0	ug/L			EPA-8270C	0		1
Phosalone	0	ug/L			EPA-8270C	0		1
Phosmet	0	ug/L			EPA-8270C	0		1
Phosphamidon	0	ug/L			EPA-8270C	0		1
Phthalic anhydride	0	ug/L			EPA-8270C	0		1
Piperonyl sulfoxide	0	ug/L			EPA-8270C	0		1
Propylthiouracil	0	ug/L			EPA-8270C	0		1
Resorcinol	0	ug/L			EPA-8270C	0		1
Strychnine	0	ug/L			EPA-8270C	0		1
Sulfallate	0	ug/L			EPA-8270C	0		1
Terbufos	0	ug/L			EPA-8270C	0		1
Tetrachlorvinphos	0	ug/L			EPA-8270C	0		1
TEPP	0	ug/L			EPA-8270C	0		1
Thiophenol (Benzenethiol)	0	ug/L			EPA-8270C	0		1
Toluene 2,4-diisocyanate	0	ug/L			EPA-8270C	0		1
Trifluralin	0	ug/L			EPA-8270C	0		1
2,4,5-Trimethylaniline	0	ug/L			EPA-8270C	0		1
Trimethyl phosphate	0	ug/L			EPA-8270C	0		1
Tris(2,3-dibromopropyl) phosphate	0	ug/L			EPA-8270C	0		1
Tri-p-tolyl phosphate	0	ug/L			EPA-8270C	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8270C	06/26/20 15:00	06/27/20 04:59	MK1	MS-B2	0.970	B081327	EPA 3510C

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Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2018201-02		Client Sample Name: JPL, MW-5, 6/24/2020 9:10:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00021	mg/L	0.00020	0.000032	EPA-218.6	0.000035		1
Total Recoverable Arsenic	0.99	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	1.5	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	35	ug/L	50	30	EPA-200.7	ND	J	3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/24/20 21:00	06/25/20 15:36		KB1	IC-4	1	B081058	No Prep
2	EPA-200.8	06/26/20 20:15	06/29/20 10:02		JNC	PE-EL2	1	B081162	EPA 200.2
3	EPA-200.7	06/26/20 17:30	06/29/20 18:37		JRG	PE-OP4	1	B081160	EPA 200.2

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Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018201-03	Client Sample Name: JPL, MW-10, 6/24/2020 11:09:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/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: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with columns: BCL Sample ID, Client Sample Name, Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quads, Run #. Lists various chemical constituents and their analysis results.

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

Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018201-03	Client Sample Name: JPL, MW-10, 6/24/2020 11:09:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND	V11	1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	117	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/25/20 08:00	06/25/20 13:14	MGC	MS-V5	1	B080915	EPA 524.2

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Powell, OH 43065

Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2018201-03	Client Sample Name: JPL, MW-10, 6/24/2020 11:09:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/25/20 08:00	06/25/20	13:14	MGC	MS-V5	1	B080915	EPA 524.2

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Powell, OH 43065

Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Table with 2 columns: BCL Sample ID (2018201-03) and Client Sample Name (JPL, MW-10, 6/24/2020 11:09:00AM, Blaine Tech)

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

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Tidewater Inc. - Powell
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Powell, OH 43065

Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID:	2018201-03	Client Sample Name:	JPL, MW-10, 6/24/2020 11:09:00AM, Blaine Tech					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	0.53	EPA-8270C	ND		1
Dieldrin	ND	ug/L	3.0	0.39	EPA-8270C	ND		1
Diethyl phthalate	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.40	EPA-8270C	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Endosulfan I	ND	ug/L	10	0.31	EPA-8270C	ND		1
Endosulfan II	ND	ug/L	10	0.30	EPA-8270C	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.23	EPA-8270C	ND		1
Endrin	ND	ug/L	2.0	0.38	EPA-8270C	ND		1
Endrin aldehyde	ND	ug/L	10	0.44	EPA-8270C	ND		1
Fluoranthene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Fluorene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Heptachlor	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
Hexachlorobenzene	ND	ug/L	2.0	0.25	EPA-8270C	ND		1
Hexachlorobutadiene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Hexachlorocyclopentadiene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
Hexachloroethane	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.29	EPA-8270C	ND		1
Isophorone	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Naphthalene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2-Naphthylamine	ND	ug/L	20	1.3	EPA-8270C	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.38	EPA-8270C	ND		1
Nitrobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1

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

Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2018201-03		Client Sample Name: JPL, MW-10, 6/24/2020 11:09:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.0	1.2	EPA-8270C	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Pyrene	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.20	EPA-8270C	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.24	EPA-8270C	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-8270C	ND		1
2-Methylphenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	0.40	EPA-8270C	ND		1
Total Methylphenol	ND	ug/L	4.0	0.60	EPA-8270C	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Pentachlorophenol	ND	ug/L	10	0.40	EPA-8270C	ND		1
Phenol	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.20	EPA-8270C	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.20	EPA-8270C	ND		1
Acetophenone	ND	ug/L	10	0.33	EPA-8270C	ND		1
2-Acetylaminofluorene	ND	ug/L	10	0.78	EPA-8270C	ND		1
Acrolein, dimethyl acetal	ND	ug/L	40	6.1	EPA-8270C	ND		1
4-Aminobiphenyl	ND	ug/L	20	0.35	EPA-8270C	ND		1
Aramite	ND	ug/L	10	0.35	EPA-8270C	ND		1
Benzaldehyde	ND	ug/L	10	2.9	EPA-8270C	ND		1
Benefin	ND	ug/L	10	0.88	EPA-8270C	ND		1
1,1-Biphenyl	ND	ug/L	10	3.6	EPA-8270C	ND		1
Caprolactam	ND	ug/L	10	3.6	EPA-8270C	ND		1
Carbazole	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
cis-Chlordane	ND	ug/L	5.0	0.59	EPA-8270C	ND		1
trans-Chlordane	ND	ug/L	5.0	0.55	EPA-8270C	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2018201-03	Client Sample Name: JPL, MW-10, 6/24/2020 11:09:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chlorobenzilate	ND	ug/L	10	0.27	EPA-8270C	ND		1
1-Chloronaphthalene	ND	ug/L	10	0.37	EPA-8270C	ND		1
cis-Diallate	ND	ug/L	5.0	2.4	EPA-8270C	ND		1
trans-Diallate	ND	ug/L	5.0	0.56	EPA-8270C	ND		1
Diallate	ND	ug/L	10	3.0	EPA-8270C	ND		1
2,6-Dichlorophenol	ND	ug/L	10	0.28	EPA-8270C	ND		1
Dimethoate	ND	ug/L	20	0.99	EPA-8270C	ND		1
p-(Dimethylamino)azobenzene	ND	ug/L	10	0.27	EPA-8270C	ND		1
7,12-Dimethylbenz[a]anthracene	ND	ug/L	10	0.37	EPA-8270C	ND		1
3,3'-Dimethylbenzidine	ND	ug/L	20	0.42	EPA-8270C	ND		1
a,a-Dimethylphenethylamine	ND	ug/L	20	4.9	EPA-8270C	ND		1
Dimethyl sulfoxide (DMSO)	ND	ug/L	10	9.5	EPA-8270C	ND		1
1,3-Dinitrobenzene	ND	ug/L	10	0.93	EPA-8270C	ND		1
Dinoseb	ND	ug/L	10	0.91	EPA-8270C	ND		1
Diphenylamine	ND	ug/L	10	0.61	EPA-8270C	ND		1
Disulfoton	ND	ug/L	10	0.33	EPA-8270C	ND		1
Ethyl methacrylate	ND	ug/L	10	1.2	EPA-8270C	ND		1
Ethyl methanesulfonate	ND	ug/L	10	0.61	EPA-8270C	ND		1
Ethyl Parathion	ND	ug/L	10	0.53	EPA-8270C	ND		1
Famphur	ND	ug/L	20	4.1	EPA-8270C	ND		1
Hexachlorophene	ND	ug/L	200	20	EPA-8270C	ND		1
Hexachloropropene	ND	ug/L	20	0.23	EPA-8270C	ND		1
Isodrin	ND	ug/L	10	0.43	EPA-8270C	ND		1
cis-Isosafrole	ND	ug/L	5.0	0.44	EPA-8270C	ND		1
trans-Isosafrole	ND	ug/L	5.0	0.29	EPA-8270C	ND		1
Isosafrole	ND	ug/L	10	0.73	EPA-8270C	ND		1
Kepone	ND	ug/L	20	2.2	EPA-8270C	ND		1
Methapyrilene	ND	ug/L	10	2.9	EPA-8270C	ND		1
Methoxychlor	ND	ug/L	10	0.20	EPA-8270C	ND		1
3-Methylcholanthrene	ND	ug/L	10	0.31	EPA-8270C	ND		1
Methyl methacrylate	ND	ug/L	40	3.8	EPA-8270C	ND		1
Methyl methanesulfonate	ND	ug/L	10	0.40	EPA-8270C	ND		1
1-Methylnaphthalene	ND	ug/L	10	0.26	EPA-8270C	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2018201-03	Client Sample Name: JPL, MW-10, 6/24/2020 11:09:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Methyl parathion	ND	ug/L	10	0.71	EPA-8270C	ND		1
N-Methyl-2-pyrrolidinone	ND	ug/L	10	2.5	EPA-8270C	ND		1
1,4-Naphthoquinone	ND	ug/L	20	0.87	EPA-8270C	ND		1
1-Naphthylamine	ND	ug/L	20	0.30	EPA-8270C	ND		1
5-Nitro-o-toluidine	ND	ug/L	10	0.85	EPA-8270C	ND		1
4-Nitroquinoline 1-oxide	ND	ug/L	20	0.95	EPA-8270C	ND		1
N-Nitrosodibutylamine	ND	ug/L	10	0.26	EPA-8270C	ND		1
N-Nitrosodiethylamine	ND	ug/L	10	0.55	EPA-8270C	ND		1
N-Nitrosomethylethylamine	ND	ug/L	10	0.61	EPA-8270C	ND		1
N-Nitrosomorpholine	ND	ug/L	10	0.63	EPA-8270C	ND		1
N-Nitrosopiperidine	ND	ug/L	10	0.47	EPA-8270C	ND		1
N-Nitrosopyrrolidine	ND	ug/L	10	0.39	EPA-8270C	ND		1
Pentachlorobenzene	ND	ug/L	10	0.20	EPA-8270C	ND		1
Pentachloroethane	ND	ug/L	20	0.31	EPA-8270C	ND		1
Pentachloronitrobenzene	ND	ug/L	10	0.42	EPA-8270C	ND		1
Phenacetin	ND	ug/L	10	0.75	EPA-8270C	ND		1
1,4-Phenylenediamine	ND	ug/L	20	1.1	EPA-8270C	ND		1
Phorate	ND	ug/L	10	0.35	EPA-8270C	ND		1
2-Picoline	ND	ug/L	10	1.2	EPA-8270C	ND		1
PCB-1016	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1221	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1232	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1242	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1248	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1254	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1260	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1262	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1268	ND	ug/L	50	25	EPA-8270C	ND		1
Total PCB's (Summation)	ND	ug/L	50	25	EPA-8270C	ND		1
Prometryn	ND	ug/L	10	1.7	EPA-8270C	ND		1
Pronamide	ND	ug/L	10	0.22	EPA-8270C	ND		1
Propyleneglycol monomethyl ether acetate	ND	ug/L	10	3.7	EPA-8270C	ND		1
Prowl	ND	ug/L	10	0.83	EPA-8270C	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

BCL Sample ID: 2018201-03	Client Sample Name: JPL, MW-10, 6/24/2020 11:09:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Pyridine	ND	ug/L	10	1.6	EPA-8270C	ND		1
Safrole	ND	ug/L	10	0.40	EPA-8270C	ND		1
Sulfotep	ND	ug/L	10	0.23	EPA-8270C	ND		1
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10	0.20	EPA-8270C	ND		1
2,3,4,5-Tetrachlorophenol	ND	ug/L	10	5.0	EPA-8270C	ND		1
2,3,4,6-Tetrachlorophenol	ND	ug/L	10	0.73	EPA-8270C	ND		1
Thionazin	ND	ug/L	10	0.38	EPA-8270C	ND		1
2-Toluidine	ND	ug/L	10	0.41	EPA-8270C	ND		1
Toxaphene	ND	ug/L	100	50	EPA-8270C	ND		1
o,o,o-Triethylphosphorothioate	ND	ug/L	10	0.44	EPA-8270C	ND		1
1,3,5-Trinitrobenzene	ND	ug/L	10	1.4	EPA-8270C	ND		1
Tris(hydroxymethyl)nitromethane	ND	ug/L	50	5.0	EPA-8270C	ND		1
2-Fluorophenol (Surrogate)	68.4	%	30 - 120 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	37.5	%	12 - 110 (LCL - UCL)		EPA-8270C			1
Nitrobenzene-d5 (Surrogate)	108	%	50 - 130 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	95.9	%	55 - 125 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	118	%	40 - 150 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	99.6	%	40 - 150 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8270C	06/26/20 15:00	06/27/20 05:25	MK1	MS-B2	1	B081327	EPA 3510C

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

Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

BCL Sample ID: 2018201-03		Client Sample Name: JPL, MW-10, 6/24/2020 11:09:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1-Acetyl-2-thiourea	0	ug/L			EPA-8270C	0		1
2-Aminoanthraquinone	0	ug/L			EPA-8270C	0		1
3-Amino-9-ethylcarbazole	0	ug/L			EPA-8270C	0		1
Anilazine	0	ug/L			EPA-8270C	0		1
o-Anisidine	0	ug/L			EPA-8270C	0		1
Azinphos methyl	0	ug/L			EPA-8270C	0		1
Barban	0	ug/L			EPA-8270C	0		1
p-Benzoquinone	0	ug/L			EPA-8270C	0		1
Bromoxynil	0	ug/L			EPA-8270C	0		1
Captafol	0	ug/L			EPA-8270C	0		1
Captan	0	ug/L			EPA-8270C	0		1
Carbaryl	0	ug/L			EPA-8270C	0		1
Carbofuran	0	ug/L			EPA-8270C	0		1
Carbophenothion	0	ug/L			EPA-8270C	0		1
Chlorfenvinphos	0	ug/L			EPA-8270C	0		1
5-Chloro-2-methylaniline	0	ug/L			EPA-8270C	0		1
3-(Chloromethyl) pyridine hydrochloride	0	ug/L			EPA-8270C	0		1
4-Chloro-1,2-phenylenediamine	0	ug/L			EPA-8270C	0		1
4-Chloro-1,3-phenylenediamine	0	ug/L			EPA-8270C	0		1
Coumaphos	0	ug/L			EPA-8270C	0		1
p-Cresidine	0	ug/L			EPA-8270C	0		1
Crotoxyphos	0	ug/L			EPA-8270C	0		1
2-Cyclohexyl-4,6-dinitrophenol	0	ug/L			EPA-8270C	0		1
Demeton-O	0	ug/L			EPA-8270C	0		1
Demeton-S	0	ug/L			EPA-8270C	0		1
2,4-Diaminotoluene	0	ug/L			EPA-8270C	0		1
Dibenz[a,j]acridine	0	ug/L			EPA-8270C	0		1
Dibenzo[a,e]pyrene	0	ug/L			EPA-8270C	0		1
1,2-Dibromo-3-chloropropane	0	ug/L			EPA-8270C	0		1
Dichlone	0	ug/L			EPA-8270C	0		1
Dichlorvos	0	ug/L			EPA-8270C	0		1
Dicrotophos	0	ug/L			EPA-8270C	0		1
Diethylstilbestrol	0	ug/L			EPA-8270C	0		1

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Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

BCL Sample ID:	2018201-03	Client Sample Name:	JPL, MW-10, 6/24/2020 11:09:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl sulfate	0	ug/L			EPA-8270C	0		1
Dihydrosafrole	0	ug/L			EPA-8270C	0		1
3,3'-Dimethoxybenzidine	0	ug/L			EPA-8270C	0		1
1,2-Dinitrobenzene	0	ug/L			EPA-8270C	0		1
1,4-Dinitrobenzene	0	ug/L			EPA-8270C	0		1
Dinocap	0	ug/L			EPA-8270C	0		1
Dioxathion	0	ug/L			EPA-8270C	0		1
5,5-Diphenylhydantoin	0	ug/L			EPA-8270C	0		1
Endrin ketone	0	ug/L			EPA-8270C	0		1
EPN	0	ug/L			EPA-8270C	0		1
Ethion	0	ug/L			EPA-8270C	0		1
Ethyl carbamate	0	ug/L			EPA-8270C	0		1
Fensulfothion	0	ug/L			EPA-8270C	0		1
Fenthion	0	ug/L			EPA-8270C	0		1
Fluchloralin	0	ug/L			EPA-8270C	0		1
Hexamethylphosphoramide	0	ug/L			EPA-8270C	0		1
Hydroquinone	0	ug/L			EPA-8270C	0		1
Leptophos	0	ug/L			EPA-8270C	0		1
Malathion	0	ug/L			EPA-8270C	0		1
Maleic Anhydride	0	ug/L			EPA-8270C	0		1
Mestranol	0	ug/L			EPA-8270C	0		1
4,4'-Methylenebis(2-chloroaniline)	0	ug/L			EPA-8270C	0		1
4,4'-Methylenebis[N,N-dimethylaniline]	0	ug/L			EPA-8270C	0		1
Mevinphos	0	ug/L			EPA-8270C	0		1
Mexacarbate	0	ug/L			EPA-8270C	0		1
Mirex	0	ug/L			EPA-8270C	0		1
Monocrotophos	0	ug/L			EPA-8270C	0		1
Naled	0	ug/L			EPA-8270C	0		1
Nicotine	0	ug/L			EPA-8270C	0		1
5-Nitroacenaphthene	0	ug/L			EPA-8270C	0		1
5-Nitro-o-anisidine	0	ug/L			EPA-8270C	0		1
4-Nitrobiphenyl	0	ug/L			EPA-8270C	0		1
Nitrophen	0	ug/L			EPA-8270C	0		1

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Powell, OH 43065

Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

BCL Sample ID: 2018201-03	Client Sample Name: JPL, MW-10, 6/24/2020 11:09:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Octamethylpyrophosphoramide	0	ug/L			EPA-8270C	0		1
4,4'-Oxydianiline	0	ug/L			EPA-8270C	0		1
Phenobarbital	0	ug/L			EPA-8270C	0		1
Phosalone	0	ug/L			EPA-8270C	0		1
Phosmet	0	ug/L			EPA-8270C	0		1
Phosphamidon	0	ug/L			EPA-8270C	0		1
Phthalic anhydride	0	ug/L			EPA-8270C	0		1
Piperonyl sulfoxide	0	ug/L			EPA-8270C	0		1
Propylthiouracil	0	ug/L			EPA-8270C	0		1
Resorcinol	0	ug/L			EPA-8270C	0		1
Strychnine	0	ug/L			EPA-8270C	0		1
Sulfallate	0	ug/L			EPA-8270C	0		1
Terbufos	0	ug/L			EPA-8270C	0		1
Tetrachlorvinphos	0	ug/L			EPA-8270C	0		1
TEPP	0	ug/L			EPA-8270C	0		1
Thiophenol (Benzenethiol)	0	ug/L			EPA-8270C	0		1
Toluene 2,4-diisocyanate	0	ug/L			EPA-8270C	0		1
Trifluralin	0	ug/L			EPA-8270C	0		1
2,4,5-Trimethylaniline	0	ug/L			EPA-8270C	0		1
Trimethyl phosphate	0	ug/L			EPA-8270C	0		1
Tris(2,3-dibromopropyl) phosphate	0	ug/L			EPA-8270C	0		1
Tri-p-tolyl phosphate	0	ug/L			EPA-8270C	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-8270C	06/26/20 15:00	06/27/20 05:25	MK1	MS-B2	1	B081327	EPA 3510C

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Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2018201-03	Client Sample Name: JPL, MW-10, 6/24/2020 11:09:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00079	mg/L	0.00020	0.000032	EPA-218.6	0.000035		1
Total Recoverable Arsenic	0.95	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	7.4	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	42	ug/L	50	30	EPA-200.7	ND	J	3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/24/20 21:00	06/25/20 16:34		KB1	IC-4	1	B081058	No Prep
2	EPA-200.8	06/26/20 20:15	06/29/20 10:04		JNC	PE-EL2	1	B081162	EPA 200.2
3	EPA-200.7	06/26/20 17:30	06/29/20 18:39		JRG	PE-OP4	1	B081160	EPA 200.2

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Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018201-04	Client Sample Name: JPL, MW-13, 6/24/2020 2:22:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.81	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018201-04	Client Sample Name: JPL, MW-13, 6/24/2020 2:22:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	1.4	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	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: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018201-04	Client Sample Name: JPL, MW-13, 6/24/2020 2:22:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND	V11	1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	121	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	95.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/25/20 08:00	06/25/20 13:38	MGC	MS-V5	1	B080915	EPA 524.2

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Powell, OH 43065

Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2018201-04	Client Sample Name: JPL, MW-13, 6/24/2020 2:22:00PM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/25/20 08:00	06/25/20	13:38	MGC	MS-V5	1	B080915	EPA 524.2

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Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

1,4-Dioxane (EPA Method 8270C)

BCL Sample ID: 2018201-04	Client Sample Name: JPL, MW-13, 6/24/2020 2:22:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,4-Dioxane	ND	ug/L	1.0	0.16	EPA-8270C	ND		1
Naphthalene-d8 (Surrogate)	121	%	70 - 130 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-8270C	07/01/20 19:00	07/07/20	11:10	OLH	MS-B4	0.950	B081567	EPA 3510C

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Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2018201-04		Client Sample Name: JPL, MW-13, 6/24/2020 2:22:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	53	mg/L	0.10	0.014	EPA-200.7	ND		1	
Total Recoverable Magnesium	18	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	26	mg/L	0.50	0.051	EPA-200.7	0.052		1	
Total Recoverable Potassium	2.6	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	190	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	160	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	39	mg/L	0.50	0.13	EPA-300.0	0.16		3	
Nitrate as N	5.0	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	54	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	7.42	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	370	mg/L	20	10	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	25	ug/L	8.0	1.6	EPA-314.0	ND	A07	7	
ortho-Phosphate as P	0.048	mg/L	0.050	0.017	EPA-365.1	ND	J	8	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/26/20 17:30	06/29/20	16:38	JRG	PE-OP4	1	B081161	EPA 200.2
2	SM-2320B	06/26/20 10:00	06/26/20	11:29	MEV	MET-1	1	B067999	No Prep
3	EPA-300.0	06/24/20 21:00	06/25/20	04:05	SAV	IC7	1	B081067	No Prep
4	EPA-150.1	06/26/20 10:00	06/26/20	11:29	MEV	MET-1	1	B067999	No Prep
5	EPA-160.1	06/26/20 13:00	06/26/20	13:00	CAD	MANUAL	2	B081137	No Prep
6	EPA-353.2	06/25/20 09:07	06/25/20	09:49	MC1	KONE-1	1	B081237	No Prep
7	EPA-314.0	07/01/20 19:00	07/02/20	18:51	KB1	IC6	2	B081428	No Prep
8	EPA-365.1	06/26/20 07:37	06/26/20	07:51	MC1	SC-1	1	B081231	No Prep

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Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2018201-04	Client Sample Name: JPL, MW-13, 6/24/2020 2:22:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0026	mg/L	0.00020	0.000032	EPA-218.6	0.000035		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	8.3	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	49	ug/L	50	30	EPA-200.7	ND	J	3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/24/20 21:00	06/25/20 16:43		KB1	IC-4	1	B081058	No Prep
2	EPA-200.8	06/26/20 20:15	06/29/20 10:06		JNC	PE-EL2	1	B081162	EPA 200.2
3	EPA-200.7	06/26/20 17:30	06/29/20 16:38		JRG	PE-OP4	1	B081161	EPA 200.2

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Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080915						
Benzene	B080915-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B080915-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B080915-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B080915-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B080915-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B080915-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B080915-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B080915-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B080915-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B080915-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B080915-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B080915-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B080915-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B080915-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B080915-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B080915-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B080915-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B080915-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B080915-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B080915-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B080915-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B080915-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B080915-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B080915-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B080915-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B080915-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B080915-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B080915-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B080915-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B080915-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B080915-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B080915-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B080915-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B080915-BLK1	ND	ug/L	0.50	0.14	

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Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080915						
trans-1,3-Dichloropropene	B080915-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B080915-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B080915-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B080915-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B080915-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B080915-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B080915-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B080915-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B080915-BLK1	ND	ug/L	0.50	0.12	
Styrene	B080915-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B080915-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2,2-Tetrachloroethane	B080915-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B080915-BLK1	ND	ug/L	0.50	0.23	
Toluene	B080915-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B080915-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B080915-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B080915-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B080915-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B080915-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B080915-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B080915-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B080915-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B080915-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B080915-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B080915-BLK1	ND	ug/L	0.50	0.18	
Acetone	B080915-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B080915-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B080915-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B080915-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B080915-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	B080915-BLK1	ND	ug/L	1.0	0.48	
trans-1,4-Dichloro-2-butene	B080915-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B080915-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B080915-BLK1	ND	ug/L	4.0	1.3	

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Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080915						
Ethyl t-butyl ether	B080915-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B080915-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B080915-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B080915-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B080915-BLK1	ND	ug/L	10	3.3	
Methyl iodide	B080915-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B080915-BLK1	ND	ug/L	10	2.4	
Methyl methacrylate	B080915-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B080915-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B080915-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B080915-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B080915-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B080915-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B080915-BLK1	117	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B080915-BLK1	96.2	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B080915-BLK1	98.4	%	80 - 120 (LCL - UCL)		

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Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: B080915										
Benzene	B080915-BS1	LCS	28.210	25.000	ug/L	113		70 - 130		
Bromodichloromethane	B080915-BS1	LCS	30.280	25.000	ug/L	121		70 - 130		
Chlorobenzene	B080915-BS1	LCS	23.930	25.000	ug/L	95.7		70 - 130		
Chloroethane	B080915-BS1	LCS	29.330	25.000	ug/L	117		70 - 130		
1,4-Dichlorobenzene	B080915-BS1	LCS	24.810	25.000	ug/L	99.2		70 - 130		
1,1-Dichloroethane	B080915-BS1	LCS	30.050	25.000	ug/L	120		70 - 130		
1,1-Dichloroethene	B080915-BS1	LCS	30.300	25.000	ug/L	121		70 - 130		
Toluene	B080915-BS1	LCS	25.500	25.000	ug/L	102		70 - 130		
Trichloroethene	B080915-BS1	LCS	27.740	25.000	ug/L	111		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B080915-BS1	LCS	12.360	10.000	ug/L	124		75 - 125		
Toluene-d8 (Surrogate)	B080915-BS1	LCS	9.8600	10.000	ug/L	98.6		80 - 120		
4-Bromofluorobenzene (Surrogate)	B080915-BS1	LCS	10.260	10.000	ug/L	103		80 - 120		

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Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
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		Lab
								RPD	Percent Recovery	
QC Batch ID: B080915										
Used client sample: N										
Benzene	MS	2018049-02	ND	28.430	25.000	ug/L		114		70 - 130
	MSD	2018049-02	ND	27.450	25.000	ug/L	3.5	110	20	70 - 130
Bromodichloromethane	MS	2018049-02	ND	31.630	25.000	ug/L		127		70 - 130
	MSD	2018049-02	ND	31.390	25.000	ug/L	0.8	126	20	70 - 130
Chlorobenzene	MS	2018049-02	ND	24.760	25.000	ug/L		99.0		70 - 130
	MSD	2018049-02	ND	23.940	25.000	ug/L	3.4	95.8	20	70 - 130
Chloroethane	MS	2018049-02	ND	29.010	25.000	ug/L		116		70 - 130
	MSD	2018049-02	ND	28.240	25.000	ug/L	2.7	113	20	70 - 130
1,4-Dichlorobenzene	MS	2018049-02	ND	25.210	25.000	ug/L		101		70 - 130
	MSD	2018049-02	ND	24.820	25.000	ug/L	1.6	99.3	20	70 - 130
1,1-Dichloroethane	MS	2018049-02	0.65000	31.070	25.000	ug/L		122		70 - 130
	MSD	2018049-02	0.65000	29.870	25.000	ug/L	3.9	117	20	70 - 130
1,1-Dichloroethene	MS	2018049-02	ND	30.910	25.000	ug/L		124		70 - 130
	MSD	2018049-02	ND	29.210	25.000	ug/L	5.7	117	20	70 - 130
Toluene	MS	2018049-02	ND	25.970	25.000	ug/L		104		70 - 130
	MSD	2018049-02	ND	26.690	25.000	ug/L	2.7	107	20	70 - 130
Trichloroethene	MS	2018049-02	1.8800	29.290	25.000	ug/L		110		70 - 130
	MSD	2018049-02	1.8800	29.510	25.000	ug/L	0.7	111	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	2018049-02	ND	11.970	10.000	ug/L		120		75 - 125
	MSD	2018049-02	ND	11.680	10.000	ug/L	2.5	117		75 - 125
Toluene-d8 (Surrogate)	MS	2018049-02	ND	9.6300	10.000	ug/L		96.3		80 - 120
	MSD	2018049-02	ND	10.000	10.000	ug/L	3.8	100		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	2018049-02	ND	10.190	10.000	ug/L		102		80 - 120
	MSD	2018049-02	ND	10.050	10.000	ug/L	1.4	100		80 - 120

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Powell, OH 43065

Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B080915						
Chloroacetonitrile	B080915-BLK1	0	ug/L			
1-Chlorobutane	B080915-BLK1	0	ug/L			
1,1-Dichloropropanone	B080915-BLK1	0	ug/L			
Methyl acrylate	B080915-BLK1	0	ug/L			
Nitrobenzene	B080915-BLK1	0	ug/L			
2-Nitropropane	B080915-BLK1	0	ug/L			

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

Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Table with 7 columns: Constituent, QC Sample ID, MB Result, Units, PQL, MDL, Lab Quals. Includes a QC Batch ID: B081327 and a list of 30 chemical constituents with their respective results.

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Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B081327						
1,4-Dichlorobenzene	B081327-BLK1	ND	ug/L	2.0	0.27	
3,3-Dichlorobenzidine	B081327-BLK1	ND	ug/L	10	0.53	
Dieldrin	B081327-BLK1	ND	ug/L	3.0	0.39	
Diethyl phthalate	B081327-BLK1	ND	ug/L	2.0	0.20	
Dimethyl phthalate	B081327-BLK1	ND	ug/L	2.0	0.20	
Di-n-butyl phthalate	B081327-BLK1	ND	ug/L	2.0	0.20	
2,4-Dinitrotoluene	B081327-BLK1	ND	ug/L	2.0	0.40	
2,6-Dinitrotoluene	B081327-BLK1	ND	ug/L	2.0	0.20	
Di-n-octyl phthalate	B081327-BLK1	ND	ug/L	2.0	0.21	
1,2-Diphenylhydrazine	B081327-BLK1	ND	ug/L	2.0	0.20	
Endosulfan I	B081327-BLK1	ND	ug/L	10	0.31	
Endosulfan II	B081327-BLK1	ND	ug/L	10	0.30	
Endosulfan sulfate	B081327-BLK1	ND	ug/L	3.0	0.23	
Endrin	B081327-BLK1	ND	ug/L	2.0	0.38	
Endrin aldehyde	B081327-BLK1	ND	ug/L	10	0.44	
Fluoranthene	B081327-BLK1	ND	ug/L	2.0	0.28	
Fluorene	B081327-BLK1	ND	ug/L	2.0	0.20	
Heptachlor	B081327-BLK1	ND	ug/L	2.0	0.20	
Heptachlor epoxide	B081327-BLK1	ND	ug/L	2.0	0.26	
Hexachlorobenzene	B081327-BLK1	ND	ug/L	2.0	0.25	
Hexachlorobutadiene	B081327-BLK1	ND	ug/L	2.0	0.20	
Hexachlorocyclopentadiene	B081327-BLK1	ND	ug/L	2.0	0.31	
Hexachloroethane	B081327-BLK1	ND	ug/L	2.0	0.20	
Indeno[1,2,3-cd]pyrene	B081327-BLK1	ND	ug/L	2.0	0.29	
Isophorone	B081327-BLK1	ND	ug/L	2.0	0.20	
2-Methylnaphthalene	B081327-BLK1	ND	ug/L	2.0	0.20	
Naphthalene	B081327-BLK1	ND	ug/L	2.0	0.20	
2-Naphthylamine	B081327-BLK1	ND	ug/L	20	1.3	
2-Nitroaniline	B081327-BLK1	ND	ug/L	2.0	0.20	
3-Nitroaniline	B081327-BLK1	ND	ug/L	2.0	0.22	
4-Nitroaniline	B081327-BLK1	ND	ug/L	5.0	0.38	
Nitrobenzene	B081327-BLK1	ND	ug/L	2.0	0.20	
N-Nitrosodimethylamine	B081327-BLK1	ND	ug/L	2.0	1.2	
N-Nitrosodi-N-propylamine	B081327-BLK1	ND	ug/L	2.0	0.21	

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Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Table with 7 columns: Constituent, QC Sample ID, MB Result, Units, PQL, MDL, Lab Quals. Includes a QC Batch ID: B081327 and a list of 30 chemical constituents with their respective results (all ND).

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Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B081327						
trans-Diallate	B081327-BLK1	ND	ug/L	5.0	0.56	
Diallate	B081327-BLK1	ND	ug/L	10	3.0	
2,6-Dichlorophenol	B081327-BLK1	ND	ug/L	10	0.28	
Dimethoate	B081327-BLK1	ND	ug/L	20	0.99	
p-(Dimethylamino)azobenzene	B081327-BLK1	ND	ug/L	10	0.27	
7,12-Dimethylbenz[a]anthracene	B081327-BLK1	ND	ug/L	10	0.37	
3,3'-Dimethylbenzidine	B081327-BLK1	ND	ug/L	20	0.42	
a,a-Dimethylphenethylamine	B081327-BLK1	ND	ug/L	20	4.9	
Dimethyl sulfoxide (DMSO)	B081327-BLK1	ND	ug/L	10	9.5	
1,3-Dinitrobenzene	B081327-BLK1	ND	ug/L	10	0.93	
Dinoseb	B081327-BLK1	ND	ug/L	10	0.91	
Diphenylamine	B081327-BLK1	ND	ug/L	10	0.61	
Disulfoton	B081327-BLK1	ND	ug/L	10	0.33	
Ethyl methacrylate	B081327-BLK1	ND	ug/L	10	1.2	
Ethyl methanesulfonate	B081327-BLK1	ND	ug/L	10	0.61	
Ethyl Parathion	B081327-BLK1	ND	ug/L	10	0.53	
Famphur	B081327-BLK1	ND	ug/L	20	4.1	
Hexachlorophene	B081327-BLK1	ND	ug/L	200	20	
Hexachloropropene	B081327-BLK1	ND	ug/L	20	0.23	
Isodrin	B081327-BLK1	ND	ug/L	10	0.43	
cis-Isosafrole	B081327-BLK1	ND	ug/L	5.0	0.44	
trans-Isosafrole	B081327-BLK1	ND	ug/L	5.0	0.29	
Isosafrole	B081327-BLK1	ND	ug/L	10	0.73	
Kepone	B081327-BLK1	ND	ug/L	20	2.2	
Methapyrilene	B081327-BLK1	ND	ug/L	10	2.9	
Methoxychlor	B081327-BLK1	ND	ug/L	10	0.20	
3-Methylcholanthrene	B081327-BLK1	ND	ug/L	10	0.31	
Methyl methacrylate	B081327-BLK1	ND	ug/L	40	3.8	
Methyl methanesulfonate	B081327-BLK1	ND	ug/L	10	0.40	
1-Methylnaphthalene	B081327-BLK1	ND	ug/L	10	0.26	
Methyl parathion	B081327-BLK1	ND	ug/L	10	0.71	
N-Methyl-2-pyrrolidinone	B081327-BLK1	ND	ug/L	10	2.5	
1,4-Naphthoquinone	B081327-BLK1	ND	ug/L	20	0.87	
1-Naphthylamine	B081327-BLK1	ND	ug/L	20	0.30	

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Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B081327						
5-Nitro-o-toluidine	B081327-BLK1	ND	ug/L	10	0.85	
4-Nitroquinoline 1-oxide	B081327-BLK1	ND	ug/L	20	0.95	
N-Nitrosodibutylamine	B081327-BLK1	ND	ug/L	10	0.26	
N-Nitrosodiethylamine	B081327-BLK1	ND	ug/L	10	0.55	
N-Nitrosomethylethylamine	B081327-BLK1	ND	ug/L	10	0.61	
N-Nitrosomorpholine	B081327-BLK1	ND	ug/L	10	0.63	
N-Nitrosopiperidine	B081327-BLK1	ND	ug/L	10	0.47	
N-Nitrosopyrrolidine	B081327-BLK1	ND	ug/L	10	0.39	
Pentachlorobenzene	B081327-BLK1	ND	ug/L	10	0.20	
Pentachloroethane	B081327-BLK1	ND	ug/L	20	0.31	
Pentachloronitrobenzene	B081327-BLK1	ND	ug/L	10	0.42	
Phenacetin	B081327-BLK1	ND	ug/L	10	0.75	
1,4-Phenylenediamine	B081327-BLK1	ND	ug/L	20	1.1	
Phorate	B081327-BLK1	ND	ug/L	10	0.35	
2-Picoline	B081327-BLK1	ND	ug/L	10	1.2	
PCB-1232	B081327-BLK1	ND	ug/L	50	25	
PCB-1260	B081327-BLK1	ND	ug/L	50	25	
PCB-1254	B081327-BLK1	ND	ug/L	50	25	
PCB-1268	B081327-BLK1	ND	ug/L	50	25	
PCB-1242	B081327-BLK1	ND	ug/L	50	25	
PCB-1221	B081327-BLK1	ND	ug/L	50	25	
PCB-1016	B081327-BLK1	ND	ug/L	50	25	
PCB-1248	B081327-BLK1	ND	ug/L	50	25	
PCB-1262	B081327-BLK1	ND	ug/L	50	25	
Total PCB's (Summation)	B081327-BLK1	ND	ug/L	50	25	
Prometryn	B081327-BLK1	ND	ug/L	10	1.7	
Pronamide	B081327-BLK1	ND	ug/L	10	0.22	
Propyleneglycol monomethyl ether acetate	B081327-BLK1	ND	ug/L	10	3.7	
Prowl	B081327-BLK1	ND	ug/L	10	0.83	
Pyridine	B081327-BLK1	ND	ug/L	10	1.6	
Safrole	B081327-BLK1	ND	ug/L	10	0.40	
Sulfotep	B081327-BLK1	ND	ug/L	10	0.23	
1,2,4,5-Tetrachlorobenzene	B081327-BLK1	ND	ug/L	10	0.20	
2,3,4,5-Tetrachlorophenol	B081327-BLK1	ND	ug/L	10	5.0	

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Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B081327						
2,3,4,6-Tetrachlorophenol	B081327-BLK1	ND	ug/L	10	0.73	
Thionazin	B081327-BLK1	ND	ug/L	10	0.38	
2-Toluidine	B081327-BLK1	ND	ug/L	10	0.41	
Toxaphene	B081327-BLK1	ND	ug/L	100	50	
o,o,o-Triethylphosphorothioate	B081327-BLK1	ND	ug/L	10	0.44	
1,3,5-Trinitrobenzene	B081327-BLK1	ND	ug/L	10	1.4	
Tris(hydroxymethyl)nitromethane	B081327-BLK1	ND	ug/L	50	5.0	
2-Fluorophenol (Surrogate)	B081327-BLK1	69.8	%	30 - 120 (LCL - UCL)		
Phenol-d5 (Surrogate)	B081327-BLK1	37.4	%	12 - 110 (LCL - UCL)		
Nitrobenzene-d5 (Surrogate)	B081327-BLK1	103	%	50 - 130 (LCL - UCL)		
2-Fluorobiphenyl (Surrogate)	B081327-BLK1	91.5	%	55 - 125 (LCL - UCL)		
2,4,6-Tribromophenol (Surrogate)	B081327-BLK1	120	%	40 - 150 (LCL - UCL)		
p-Terphenyl-d14 (Surrogate)	B081327-BLK1	97.2	%	40 - 150 (LCL - UCL)		

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Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Laboratory Control Sample

Table with columns: Constituent, QC Sample ID, Type, Result, Spike Level, Units, Percent Recovery, RPD, Control Limits (Percent Recovery, RPD), Lab (Quals). Includes a QC Batch ID: B081327 and 30 rows of chemical analysis data.

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Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes a QC Batch ID: B081327 and a list of 28 chemical constituents with their respective test results and recovery percentages.

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Project Number: 2Q20
Project Manager: David Conner

Base Neutral and Acid Extractables Organic Analysis (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab	
								Percent Recovery	Percent Recovery		
QC Batch ID: B081327		Used client sample: N									
Pyridine	MS	2016224-85	ND	ND	50.000	ug/L		0.8		1 - 110	Q03
	MSD	2016224-85	ND	ND	50.000	ug/L	200	0	30	1 - 110	Q03
2-Fluorophenol (Surrogate)	MS	2016224-85	ND	23.770	40.000	ug/L		59.4		30 - 120	
	MSD	2016224-85	ND	24.263	40.000	ug/L	2.1	60.7		30 - 120	
Phenol-d5 (Surrogate)	MS	2016224-85	ND	14.276	40.000	ug/L		35.7		12 - 110	
	MSD	2016224-85	ND	14.772	40.000	ug/L	3.4	36.9		12 - 110	
Nitrobenzene-d5 (Surrogate)	MS	2016224-85	ND	36.531	40.000	ug/L		91.3		50 - 130	
	MSD	2016224-85	ND	37.440	40.000	ug/L	2.5	93.6		50 - 130	
2-Fluorobiphenyl (Surrogate)	MS	2016224-85	ND	33.007	40.000	ug/L		82.5		55 - 125	
	MSD	2016224-85	ND	34.418	40.000	ug/L	4.2	86.0		55 - 125	
2,4,6-Tribromophenol (Surrogate)	MS	2016224-85	ND	43.590	40.000	ug/L		109		40 - 150	
	MSD	2016224-85	ND	49.752	40.000	ug/L	13.2	124		40 - 150	
p-Terphenyl-d14 (Surrogate)	MS	2016224-85	ND	16.880	20.000	ug/L		84.4		40 - 150	
	MSD	2016224-85	ND	20.434	20.000	ug/L	19.1	102		40 - 150	

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Project Number: 2Q20
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B081327						
1-Acetyl-2-thiourea	B081327-BLK1	0	ug/L			
2-Aminoanthraquinone	B081327-BLK1	0	ug/L			
3-Amino-9-ethylcarbazole	B081327-BLK1	0	ug/L			
Anilazine	B081327-BLK1	0	ug/L			
o-Anisidine	B081327-BLK1	0	ug/L			
Azinphos methyl	B081327-BLK1	0	ug/L			
Barban	B081327-BLK1	0	ug/L			
p-Benzoquinone	B081327-BLK1	0	ug/L			
Bromoxynil	B081327-BLK1	0	ug/L			
Captafol	B081327-BLK1	0	ug/L			
Captan	B081327-BLK1	0	ug/L			
Carbaryl	B081327-BLK1	0	ug/L			
Carbofuran	B081327-BLK1	0	ug/L			
Carbophenothion	B081327-BLK1	0	ug/L			
Chlorfenvinphos	B081327-BLK1	0	ug/L			
5-Chloro-2-methylaniline	B081327-BLK1	0	ug/L			
3-(Chloromethyl) pyridine hydrochloride	B081327-BLK1	0	ug/L			
4-Chloro-1,2-phenylenediamine	B081327-BLK1	0	ug/L			
4-Chloro-1,3-phenylenediamine	B081327-BLK1	0	ug/L			
Coumaphos	B081327-BLK1	0	ug/L			
p-Cresidine	B081327-BLK1	0	ug/L			
Crotoxphos	B081327-BLK1	0	ug/L			
2-Cyclohexyl-4,6-dinitrophenol	B081327-BLK1	0	ug/L			
Demeton-O	B081327-BLK1	0	ug/L			
Demeton-S	B081327-BLK1	0	ug/L			
2,4-Diaminotoluene	B081327-BLK1	0	ug/L			
Dibenz[a,j]acridine	B081327-BLK1	0	ug/L			
Dibenzo[a,e]pyrene	B081327-BLK1	0	ug/L			
1,2-Dibromo-3-chloropropane	B081327-BLK1	0	ug/L			
Dichlone	B081327-BLK1	0	ug/L			
Dichlorvos	B081327-BLK1	0	ug/L			
Dicrotophos	B081327-BLK1	0	ug/L			
Diethylstilbestrol	B081327-BLK1	0	ug/L			
Diethyl sulfate	B081327-BLK1	0	ug/L			

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Project Number: 2Q20
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Organic Analysis (EPA Method 8270C) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B081327						
Dihydrosafrole	B081327-BLK1	0	ug/L			
3,3'-Dimethoxybenzidine	B081327-BLK1	0	ug/L			
1,2-Dinitrobenzene	B081327-BLK1	0	ug/L			
1,4-Dinitrobenzene	B081327-BLK1	0	ug/L			
Dinocap	B081327-BLK1	0	ug/L			
Dioxathion	B081327-BLK1	0	ug/L			
5,5-Diphenylhydantoin	B081327-BLK1	0	ug/L			
Endrin ketone	B081327-BLK1	0	ug/L			
EPN	B081327-BLK1	0	ug/L			
Ethion	B081327-BLK1	0	ug/L			
Ethyl carbamate	B081327-BLK1	0	ug/L			
Fensulfothion	B081327-BLK1	0	ug/L			
Fenthion	B081327-BLK1	0	ug/L			
Fluchloralin	B081327-BLK1	0	ug/L			
Hexamethylphosphoramide	B081327-BLK1	0	ug/L			
Hydroquinone	B081327-BLK1	0	ug/L			
Leptophos	B081327-BLK1	0	ug/L			
Malathion	B081327-BLK1	0	ug/L			
Maleic Anhydride	B081327-BLK1	0	ug/L			
Mestranol	B081327-BLK1	0	ug/L			
4,4'-Methylenebis(2-chloroaniline)	B081327-BLK1	0	ug/L			
4,4'-Methylenebis[N,N-dimethylaniline]	B081327-BLK1	0	ug/L			
Mevinphos	B081327-BLK1	0	ug/L			
Mexacarbate	B081327-BLK1	0	ug/L			
Mirex	B081327-BLK1	0	ug/L			
Monocrotophos	B081327-BLK1	0	ug/L			
Naled	B081327-BLK1	0	ug/L			
Nicotine	B081327-BLK1	0	ug/L			
5-Nitroacenaphthene	B081327-BLK1	0	ug/L			
5-Nitro-o-anisidine	B081327-BLK1	0	ug/L			
4-Nitrobiphenyl	B081327-BLK1	0	ug/L			
Nitrophen	B081327-BLK1	0	ug/L			
Octamethylpyrophosphoramide	B081327-BLK1	0	ug/L			
4,4'-Oxydianiline	B081327-BLK1	0	ug/L			

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

Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B081327						
Phenobarbital	B081327-BLK1	0	ug/L			
Phosalone	B081327-BLK1	0	ug/L			
Phosmet	B081327-BLK1	0	ug/L			
Phosphamidon	B081327-BLK1	0	ug/L			
Phthalic anhydride	B081327-BLK1	0	ug/L			
Piperonyl sulfoxide	B081327-BLK1	0	ug/L			
Propylthiouracil	B081327-BLK1	0	ug/L			
Resorcinol	B081327-BLK1	0	ug/L			
Strychnine	B081327-BLK1	0	ug/L			
Sulfallate	B081327-BLK1	0	ug/L			
Terbufos	B081327-BLK1	0	ug/L			
Tetrachlorvinphos	B081327-BLK1	0	ug/L			
TEPP	B081327-BLK1	0	ug/L			
Thiophenol (Benzenethiol)	B081327-BLK1	0	ug/L			
Toluene 2,4-diisocyanate	B081327-BLK1	0	ug/L			
Trifluralin	B081327-BLK1	0	ug/L			
2,4,5-Trimethylaniline	B081327-BLK1	0	ug/L			
Trimethyl phosphate	B081327-BLK1	0	ug/L			
Tris(2,3-dibromopropyl) phosphate	B081327-BLK1	0	ug/L			
Tri-p-tolyl phosphate	B081327-BLK1	0	ug/L			

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

Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

1,4-Dioxane (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B081567						
1,4-Dioxane	B081567-BLK1	ND	ug/L	1.0	0.16	
Naphthalene-d8 (Surrogate)	B081567-BLK1	91.5	%	70 - 130 (LCL - UCL)		

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Powell, OH 43065

Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

1,4-Dioxane (EPA Method 8270C)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B081567										
1,4-Dioxane	B081567-BS1	LCS	42.029	50.000	ug/L	84.1		70	130	
Naphthalene-d8 (Surrogate)	B081567-BS1	LCS	7.4400	8.0000	ug/L	93.0		70	130	

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Powell, OH 43065

Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

1,4-Dioxane (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: B081567		Used client sample: N								
1,4-Dioxane	MS	2016224-86	ND	42.246	50.000	ug/L		84.5		70 - 130
	MSD	2016224-86	ND	43.817	50.000	ug/L	3.7	87.6	30	70 - 130
Naphthalene-d8 (Surrogate)	MS	2016224-86	ND	7.3530	8.0000	ug/L		91.9		70 - 130
	MSD	2016224-86	ND	7.9398	8.0000	ug/L	7.7	99.2		70 - 130

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

Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B067999						
Bicarbonate	B067999-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B067999-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B067999-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: B081067						
Chloride	B081067-BLK1	0.16100	mg/L	0.50	0.13	J
Nitrate as N	B081067-BLK1	ND	mg/L	0.10	0.024	
Sulfate	B081067-BLK1	ND	mg/L	1.0	0.14	
QC Batch ID: B081137						
Total Dissolved Solids @ 180 C	B081137-BLK1	ND	mg/L	6.7	3.3	
QC Batch ID: B081160						
Total Recoverable Calcium	B081160-BLK1	0.020933	mg/L	0.10	0.014	J
Total Recoverable Magnesium	B081160-BLK1	ND	mg/L	0.050	0.019	
Total Recoverable Sodium	B081160-BLK1	ND	mg/L	0.50	0.051	
Total Recoverable Potassium	B081160-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: B081161						
Total Recoverable Calcium	B081161-BLK1	ND	mg/L	0.10	0.014	
Total Recoverable Magnesium	B081161-BLK1	ND	mg/L	0.050	0.019	
Total Recoverable Sodium	B081161-BLK1	0.052169	mg/L	0.50	0.051	J
Total Recoverable Potassium	B081161-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: B081231						
ortho-Phosphate as P	B081231-BLK1	ND	mg/L	0.050	0.017	
QC Batch ID: B081237						
Nitrite as N	B081237-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: B081428						
Perchlorate	B081428-BLK1	ND	ug/L	4.0	0.81	

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3761 Attucks Drive
Powell, OH 43065

Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits		Lab RPD Quals
							Percent Recovery	RPD	
QC Batch ID: B067999									
Total Alkalinity as CaCO3	B067999-BS3	LCS	98.280	100.00	mg/L	98.3	90 - 110		
pH	B067999-BS2	LCS	6.9900	7.0000	pH Units	99.9	95 - 105		
QC Batch ID: B081067									
Chloride	B081067-BS1	LCS	53.073	50.000	mg/L	106	90 - 110		
Nitrate as N	B081067-BS1	LCS	5.3030	5.0000	mg/L	106	90 - 110		
Sulfate	B081067-BS1	LCS	106.04	100.00	mg/L	106	90 - 110		
QC Batch ID: B081137									
Total Dissolved Solids @ 180 C	B081137-BS1	LCS	570.00	586.00	mg/L	97.3	90 - 110		
QC Batch ID: B081160									
Total Recoverable Calcium	B081160-BS1	LCS	10.301	10.000	mg/L	103	85 - 115		
Total Recoverable Magnesium	B081160-BS1	LCS	10.133	10.000	mg/L	101	85 - 115		
Total Recoverable Sodium	B081160-BS1	LCS	10.126	10.000	mg/L	101	85 - 115		
Total Recoverable Potassium	B081160-BS1	LCS	9.5870	10.000	mg/L	95.9	85 - 115		
QC Batch ID: B081161									
Total Recoverable Calcium	B081161-BS1	LCS	9.8960	10.000	mg/L	99.0	85 - 115		
Total Recoverable Magnesium	B081161-BS1	LCS	10.484	10.000	mg/L	105	85 - 115		
Total Recoverable Sodium	B081161-BS1	LCS	10.388	10.000	mg/L	104	85 - 115		
Total Recoverable Potassium	B081161-BS1	LCS	9.9830	10.000	mg/L	99.8	85 - 115		
QC Batch ID: B081231									
ortho-Phosphate as P	B081231-BS1	LCS	0.49380	0.50000	mg/L	98.8	90 - 110		
QC Batch ID: B081237									
Nitrite as N	B081237-BS1	LCS	0.50754	0.50000	mg/L	102	90 - 110		
QC Batch ID: B081428									
Perchlorate	B081428-BS1	LCS	10.134	10.000	ug/L	101	85 - 115		

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

Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Qualls. Includes QC Batch IDs B067999, B081067, B081137, B081160, and B081161.

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Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: B081161		Used client sample: Y - Description: MW-13, 06/24/2020 14:22								
Total Recoverable Sodium	DUP	2018201-04	26.376	28.615		mg/L	8.1		20	
	MS	2018201-04	26.376	37.565	10.000	mg/L		112		75 - 125
	MSD	2018201-04	26.376	37.666	10.000	mg/L	0.3	113	20	75 - 125
Total Recoverable Potassium	DUP	2018201-04	2.5626	2.7345		mg/L	6.5		20	
	MS	2018201-04	2.5626	12.602	10.000	mg/L		100		75 - 125
	MSD	2018201-04	2.5626	12.625	10.000	mg/L	0.2	101	20	75 - 125
QC Batch ID: B081231		Used client sample: N								
ortho-Phosphate as P	DUP	2018328-05	0.027200	0.029300		mg/L	7.4		10	J
	MS	2018328-05	0.027200	0.56674	0.52632	mg/L		103		90 - 110
	MSD	2018328-05	0.027200	0.56000	0.52632	mg/L	1.2	101	10	90 - 110
QC Batch ID: B081237		Used client sample: Y - Description: MW-5, 06/24/2020 09:10								
Nitrite as N	DUP	2018201-02	ND	ND		mg/L			10	
	MS	2018201-02	ND	0.54060	0.52632	mg/L		103		90 - 110
	MSD	2018201-02	ND	0.53959	0.52632	mg/L	0.2	103	10	90 - 110
QC Batch ID: B081428		Used client sample: N								
Perchlorate	DUP	2018328-03	1.6194	2.2537		ug/L	32.8		15	J,A02
	MS	2018328-03	1.6194	12.418	10.101	ug/L		107		80 - 120
	MSD	2018328-03	1.6194	12.464	10.101	ug/L	0.4	107	15	80 - 120

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Tidewater Inc. - Powell
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Powell, OH 43065

Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B081058						
Hexavalent Chromium	B081058-BLK1	0.000035000	mg/L	0.00020	0.000032	J
QC Batch ID: B081160						
Total Recoverable Iron	B081160-BLK1	ND	ug/L	50	30	
QC Batch ID: B081161						
Total Recoverable Iron	B081161-BLK1	ND	ug/L	50	30	
QC Batch ID: B081162						
Total Recoverable Arsenic	B081162-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B081162-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B081162-BLK1	ND	ug/L	1.0	0.10	

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

Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
QC Batch ID: B081058											
Hexavalent Chromium	B081058-BS1	LCS	0.019126	0.020000	mg/L	95.6		90 - 110			
QC Batch ID: B081160											
Total Recoverable Iron	B081160-BS1	LCS	1032.0	1000.0	ug/L	103		85 - 115			
QC Batch ID: B081161											
Total Recoverable Iron	B081161-BS1	LCS	1089.3	1000.0	ug/L	109		85 - 115			
QC Batch ID: B081162											
Total Recoverable Arsenic	B081162-BS1	LCS	110.33	100.00	ug/L	110		85 - 115			
Total Recoverable Chromium	B081162-BS1	LCS	45.773	40.000	ug/L	114		85 - 115			
Total Recoverable Lead	B081162-BS1	LCS	112.03	100.00	ug/L	112		85 - 115			

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Powell, OH 43065

Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: B081058		Used client sample: Y - Description: MW-5, 06/24/2020 09:10								
Hexavalent Chromium	DUP	2018201-02	0.00020600	0.00020100		mg/L	2.5		10	
	MS	2018201-02	0.00020600	0.019165	0.020202	mg/L		93.8		90 - 110
	MSD	2018201-02	0.00020600	0.019203	0.020202	mg/L	0.2	94.0	10	90 - 110
QC Batch ID: B081160		Used client sample: N								
Total Recoverable Iron	DUP	2018162-01	33.302	34.217		ug/L	2.7		20	J
	MS	2018162-01	33.302	1109.2	1000.0	ug/L		108		75 - 125
	MSD	2018162-01	33.302	1071.7	1000.0	ug/L	3.4	104	20	75 - 125
QC Batch ID: B081161		Used client sample: Y - Description: MW-13, 06/24/2020 14:22								
Total Recoverable Iron	DUP	2018201-04	49.064	53.618		ug/L	8.9		20	
	MS	2018201-04	49.064	1103.3	1000.0	ug/L		105		75 - 125
	MSD	2018201-04	49.064	1112.0	1000.0	ug/L	0.8	106	20	75 - 125
QC Batch ID: B081162		Used client sample: N								
Total Recoverable Arsenic	DUP	2018242-11	1.9520	1.4370		ug/L	30.4		20	J,A02
	MS	2018242-11	1.9520	113.86	100.00	ug/L		112		70 - 130
	MSD	2018242-11	1.9520	113.92	100.00	ug/L	0.1	112	20	70 - 130
Total Recoverable Chromium	DUP	2018242-11	ND	ND		ug/L			20	
	MS	2018242-11	ND	41.503	40.000	ug/L		104		70 - 130
	MSD	2018242-11	ND	42.395	40.000	ug/L	2.1	106	20	70 - 130
Total Recoverable Lead	DUP	2018242-11	0.13900	0.15200		ug/L	8.9		20	J
	MS	2018242-11	0.13900	103.32	100.00	ug/L		103		70 - 130
	MSD	2018242-11	0.13900	103.73	100.00	ug/L	0.4	104	20	70 - 130

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Certificate of Analysis

FINAL REPORT

Work Orders: 0F26024

Project: 2018201

Attn: Natalie Serda
Client: BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308

Report Date: 7/02/2020
Received Date: 6/26/2020
Turnaround Time: Normal
Phones: (661) 327-4911
Fax: (661) 327-1918
P.O. #:
Billing Code:

Dear Natalie Serda,

Enclosed are the results of analyses for samples received 6/26/20 with the Chain-of-Custody document. The samples were received in good condition, at 3.3 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Sample Results

Sample:	2018201-04	Sampled: 06/24/20 14:22 by Client					
	0F26024-01 (Water)						
Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier	
Method: EPA 1625M N-Nitrosodimethylamine	Batch ID: W0F1764 Instr: GCMS09 ND	Prepared: 05/30/20 09:45 2.0	ng/l	1	Analyst: mld 06/30/20		

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Certificate of Analysis

FINAL REPORT

Quality Control Results

Nitrosamines by isotopic dilution GC/MS CI Mode

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	RPD	Limit	Qualifier
Batch: W0F1764 - EPA 3535/SPE									
Blank (W0F1764-BLK1)				Prepared & Analyzed: 06/30/20					
N-Nitrosodimethylamine	ND	2.0	ng/l						
LCS (W0F1764-BS1)				Prepared & Analyzed: 06/30/20					
N-Nitrosodimethylamine	1.78	2.0	ng/l	2.00		89		50-150	
LCS Dup (W0F1764-BSD1)				Prepared & Analyzed: 06/30/20					
N-Nitrosodimethylamine	1.82	2.0	ng/l	2.00		91		50-150	3 50

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Certificate of Analysis

FINAL REPORT

Notes and Definitions

Item	Definition
%REC	Percent Recovery
DI	Dilution
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

Reviewed by:

Regina M. Giancola
Project Manager



ELAP-CA #1132 • EPA-UCMR #CA00211 • HW-DOH # • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047 •
NJ-DEP #CAD15 • NV-DEP #NAC 445A • SCAQMD #93LA1006

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.



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

Reported: 07/09/2020 14:42
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Notes And Definitions

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

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Date of Report: 07/09/2020

David Conner

Tidewater Inc. - Powell

3761 Attucks Drive

Powell, OH 43065

Client Project: 2Q20

BCL Project: JPL- GW Monitoring Wells

BCL Work Order: 2018328

Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 6/25/2020. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Natalie Serda

Client Service Rep

Stuart Buttram

Technical Director

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

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

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Case Narrative

Sample Receipt

COC Number:

Samples received refrigerated to 2.1 °C

Sample List

<u>Lab Number</u>	<u>Date/Time Sampled</u>	<u>Sample Name</u>
2018328-01	06/25/2020 09:00	TB-13-062520
2018328-02	06/25/2020 12:53	MW-1
2018328-03	06/25/2020 09:00	MW-6
2018328-04	06/25/2020 10:43	MW-7
2018328-05	06/25/2020 09:59	MW-8
2018328-06	06/25/2020 12:30	MW-9
2018328-07	06/25/2020 11:49	MW-15
2018328-08	06/25/2020 11:15	MW-16
2018328-09	06/25/2020 11:54	Dup-7-2Q2020
2018328-10	06/25/2020 13:03	Dup-8-2Q2020

Requested Analysis

Calc, EPA-150.1, EPA-160.1, EPA-200.7 (TRM), EPA-200.8 (TRM), EPA-218.6, EPA-300.0, EPA-314.0, EPA-353.2, EPA-365.1, EPA-524.2, EPA-8270C, SM-2320B

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

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

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Case Narrative

<u>Sample</u>	<u>Analyte</u>	<u>Flag</u>	
Sample Qualifier Summary			
2018328-01	EPA-524.2	Methyl iodide	V11
2018328-01	EPA-524.2	Pentachloroethane	V01
2018328-02	EPA-524.2	Methyl iodide	V11
2018328-02	EPA-524.2	Pentachloroethane	V01
2018328-03	EPA-524.2	Methyl iodide	V11
2018328-03	EPA-524.2	Pentachloroethane	V01
2018328-04	EPA-524.2	Methyl iodide	V11
2018328-04	EPA-524.2	Pentachloroethane	V01
2018328-05	EPA-524.2	Methyl iodide	V11
2018328-05	EPA-524.2	Pentachloroethane	V01
2018328-06	EPA-524.2	Methyl iodide	V11
2018328-06	EPA-524.2	Pentachloroethane	V01
2018328-07	EPA-524.2	Methyl iodide	V11
2018328-07	EPA-524.2	Pentachloroethane	V01
2018328-08	EPA-524.2	Methyl iodide	V11
2018328-08	EPA-524.2	Pentachloroethane	V01
2018328-08	EPA-8270C	Naphthalene-d8 (Surrogate)	A19
2018328-09	EPA-524.2	Methyl iodide	V11
2018328-09	EPA-524.2	Pentachloroethane	V01
2018328-10	EPA-524.2	Methyl iodide	V11
2018328-10	EPA-524.2	Pentachloroethane	V01

Holding Times

2018328-02	EPA-150.1	pH	S05
2018328-03	EPA-150.1	pH	S05
2018328-04	EPA-150.1	pH	S05
2018328-05	EPA-150.1	pH	S05
2018328-06	EPA-150.1	pH	S05
2018328-07	EPA-150.1	pH	S05
2018328-08	EPA-150.1	pH	S05
2018328-09	EPA-150.1	pH	S05
2018328-10	EPA-150.1	pH	S05

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

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Case Narrative

<u>Sample</u>		<u>Analyte</u>	<u>Flag</u>
Method Blanks			
B081125-BLK1	EPA-300.0	Chloride	0.16000 mg/L
B081128-BLK1	EPA-300.0	Chloride	0.15700 mg/L
B081264-BLK1	EPA-200.7 (TRM)	Total Recoverable Calcium	0.018287 mg/L
B081316-BLK1	EPA-524.2	Chloroacetonitrile	0 ug/L
B081316-BLK1	EPA-524.2	1-Chlorobutane	0 ug/L
B081316-BLK1	EPA-524.2	1,1-Dichloropropanone	0 ug/L
B081316-BLK1	EPA-524.2	Methyl acrylate	0 ug/L
B081316-BLK1	EPA-524.2	Nitrobenzene	0 ug/L
B081316-BLK1	EPA-524.2	2-Nitropropane	0 ug/L
B081317-BLK1	EPA-524.2	Chloroacetonitrile	0 ug/L
B081317-BLK1	EPA-524.2	1-Chlorobutane	0 ug/L
B081317-BLK1	EPA-524.2	1,1-Dichloropropanone	0 ug/L
B081317-BLK1	EPA-524.2	Methyl acrylate	0 ug/L
B081317-BLK1	EPA-524.2	Nitrobenzene	0 ug/L
B081317-BLK1	EPA-524.2	2-Nitropropane	0 ug/L

Matrix Spikes

B081428-DUP1	EPA-314.0	Perchlorate	A02
--------------	-----------	-------------	-----

LCS

The LCS recoveries are within QC limits.

Discussion

Client advised to revise and remove the following:

- Sample #3 (MW-6), please remove TRM and Hex Cr
- Sample #8 (MW-16), please remove TRM and Hex Cr

Summary of Flags

A02	The difference between duplicate readings is less than the quantitation limit.
A19	Surrogate is high due to matrix interference. Interferences verified through second extraction/analysis.
S05	The sample holding time was exceeded.
V01	The Initial Calibration Verification (ICV) recovery is not within established control limits.
V11	The Continuing Calibration Verification (CCV) recovery was not within established control limits.



Chain of Custody Form

Page 1 of 1

Report To: Tidewater, Inc.
Client: Tidewater, Inc.
Attn: David Conner
Street Address: 3761 Altavaca Drive
City: Powell **State:** OH **Zip:** 43065
Phone: 626 1288 **Fax:** 614 792-2897
Email Address: david.conner@tidewater.com
Submission #: 20-18328

Project Description: JPL_GW Monitoring
Project Code: 2020
Sampler(s): Blaine Tech

Billing:
Client: Tidewater
Attn: David Conner
Address: 3761 Altavaca Drive
City: Powell **State:** OH **Zip:** 43065
 Are there any tests with holding times? less than or equal to 48 hours?
 Yes No
 *Standard Turnaround = 30

Analysis Requested:
 VOCs EPA 524.2
 TRM: Cr, Pb, As, Ca, Mg, K, Na, Fe
 Hexavalent Cr- 2186 (mg/L)
 Cl, NO3, NO2, SO4, Perch.
 CO3, HCO3, Alk, TDS, pH
 Orthophosphate 365.1
 1,4 Dioxane 827031M
 NDMA 1625M
 Pats, Phthalates, Phenols

Sample #	Sample Description	Date	Time	Matrix*
-1	AW-13-062020	6/15/20	0900	L
-2	AW-1	6/15/20	1253	
-3	AW-6	6/15/20	0900	
-4	AW-7	6/15/20	1043	
-5	AW-8	6/15/20	0459	
-6	AW-9	6/15/20	1230	
-7	AW-15	6/15/20	1149	
-8	AW-16	6/15/20	1115	
-9	Dup-7-262020	6/15/20	1154	
-10	Dup-8-262020	6/15/20	1203	

Notes:
 level IV + MS/MSD
 level IV + MS/MSD
 CHK BY DISTRIBUTION
 WAKARUSA
 SUB OUT
 DUSHOBI HOLDING TIME
 (Cr) (NO3) (NO2) (OP) SS
 DC MIBU
 BOD
 MBAS
 COT

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

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

Global ID: _____
Received By: _____ **Date:** 6-25-20 **Time:** 1400
Received By: _____ **Date:** 6/25/20 **Time:** 1745
Received By: _____ **Date:** 6/25/20 **Time:** 1845

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

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BC LABORATORIES INC. COOLER RECEIPT FORM Page 1 Of 2

Submission #: 2018328

SHIPPING INFORMATION: Fed Ex UPS Ontrac Hand Delivery BC Lab Field Service Other (Specify) _____

SHIPPING CONTAINER: Ice Chest None Box Other (Specify) _____

FREE LIQUID: YES NO W / S _____

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals: Ice Chest Containers Intact? Yes No None Comments: _____

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

COC Received: YES NO Emissivity: 0.98 Container: PE Thermometer ID: 208 Date/Time: 6/25 1845

Temperature: (A) 2.2 °C / (C) 2.1 °C Analyst Initial: Emm

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT PE UNPRES		E	JK	E		F				
4oz / 8oz / 16oz PE UNPRES		F	LM	F		F				
2oz Cr ⁴		D		D		D				
QT INORGANIC CHEMICAL METALS - Y40				G						
INORGANIC CHEMICAL METALS 4oz / 8oz / 16oz		G		H		G				
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL			A3F	ABC		ABC	ABC		ABC	
QT EPA 1664										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL - 504										
QT EPA 508/608/808D										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
40ml EPA 547										
40ml EPA 531.1										
Box EPA 545										
QT EPA 549										
QT EPA 801SM										
QT EPA 8270										
8oz / 16oz / 32oz AMBER				NOF						
8oz / 16oz / 32oz JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
TEDLAR BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
SUNIMA CANISTER										

Comments: No preserved cr6 bottles received lot - 3
 Sample Numbering Completed By: [Signature] Date/Time: 6/25 2023
 A - Actual / C - Corrected



BC LABORATORIES INC.		COOLER RECEIPT FORM		Page 2 of 2									
Submission #: 2018328													
SHIPPING INFORMATION Fed Ex <input type="checkbox"/> UPS <input type="checkbox"/> Ontrac <input type="checkbox"/> Hand Delivery <input type="checkbox"/> BC Lab Field Service <input checked="" type="checkbox"/> Other <input type="checkbox"/> (Specify) _____			SHIPPING CONTAINER Ice Chest <input checked="" type="checkbox"/> None <input type="checkbox"/> Box <input type="checkbox"/> Other <input type="checkbox"/> (Specify) _____		FREE LIQUID YES <input type="checkbox"/> NO <input type="checkbox"/> W / S								
Refrigerant: Ice <input checked="" type="checkbox"/> Blue Ice <input type="checkbox"/> None <input type="checkbox"/> Other <input type="checkbox"/> Comments:													
Custody Seals Ice Chest <input type="checkbox"/> Containers <input type="checkbox"/> None <input checked="" type="checkbox"/> Comments:													
All samples received? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> All samples containers intact? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> Description(s) match COC? Yes <input checked="" type="checkbox"/> No <input type="checkbox"/>													
COC Received <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO		Emissivity: 0.98 Container: PE Thermometer ID: 208		Date/Time: 6/25 1845									
Temperature: (A) 2.4 °C (C) 2.3 °C		Analyst Init: Emm											
SAMPLE CONTAINERS		SAMPLE NUMBERS											
		1	2	3	4	5	6	7	8	9	10	11	12
QT PE UNPRES													
4oz / 8oz / 16oz PE UNPRES													
2oz Cr ⁶													
PT INORGANIC CHEMICAL METALS Y46													
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													
PLA PHENOLICS													
40ml VOA VIAL TRAVEL BLANK		A											
40ml VOA VIAL			ABC	A=I	A=I		ABC		ABC				
QT EPA 1664													
PT ODOR													
RADIOLOGICAL													
BACTERIOLOGICAL													
40 ml VOA VIAL- 504													
QT EPA 503/603/803D													
QT EPA 515.1/5150													
QT EPA 525													
QT EPA 525 TRAVEL BLANK													
40ml EPA 547													
40ml EPA 531.1													
8oz EPA 548													
QT EPA 549													
QT EPA 8015M													
QT EPA 8270													
8oz / 16oz / 32oz AMBER													
8oz / 16oz / 32oz JAR													
SOIL SLEEVE													
PCB VIAL													
PLASTIC BAG													
TEDLAR BAG													
FERROUS IRON													
ENCORE													
SMART KIT													
SUMMA CANISTER													

Comments: No CR6 preserved bottle received for 8
 Sample Numbering Completed By: [Signature] Date/Time: 6/25 2023
 A = Actual / C = Corrected

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

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2018328-01	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: TB-13-062520 Sampled By: Blaine Tech of BTST	Receive Date: 06/25/2020 18:45 Sampling Date: 06/25/2020 09:00 Sample Depth: --- Lab Matrix: Water Sample Type: Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-13-062520 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

2018328-02	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW-1 Sampled By: Blaine Tech of BTST	Receive Date: 06/25/2020 18:45 Sampling Date: 06/25/2020 12:53 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-1 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

2018328-03	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW-6 Sampled By: Blaine Tech of BTST	Receive Date: 06/25/2020 18:45 Sampling Date: 06/25/2020 09:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-6 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

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

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2018328-04	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW-7 Sampled By: Blaine Tech of BTST	Receive Date: 06/25/2020 18:45 Sampling Date: 06/25/2020 10:43 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-7 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

2018328-05	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW-8 Sampled By: Blaine Tech of BTST	Receive Date: 06/25/2020 18:45 Sampling Date: 06/25/2020 09:59 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-8 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

2018328-06	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW-9 Sampled By: Blaine Tech of BTST	Receive Date: 06/25/2020 18:45 Sampling Date: 06/25/2020 12:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-9 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

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

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2018328-07	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW-15 Sampled By: Blaine Tech of BTST	Receive Date: 06/25/2020 18:45 Sampling Date: 06/25/2020 11:49 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-15 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

2018328-08	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: MW-16 Sampled By: Blaine Tech of BTST	Receive Date: 06/25/2020 18:45 Sampling Date: 06/25/2020 11:15 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-16 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

2018328-09	COC Number: --- Project Number: JPL GW Sampling Location: --- Sampling Point: Dup-7-2Q2020 Sampled By: Blaine Tech of BTST	Receive Date: 06/25/2020 18:45 Sampling Date: 06/25/2020 11:54 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): Dup-7-2Q2020 Matrix: WG Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc. - Powell
3761 Attucks Drive
Powell, OH 43065

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

2018328-10	COC Number: ---	Receive Date: 06/25/2020 18:45
	Project Number: JPL GW	Sampling Date: 06/25/2020 13:03
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: Dup-8-2Q2020	Lab Matrix: Water
	Sampled By: Blaine Tech of BTST	Sample Type: Water
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): Dup-8-2Q2020
		Matrix: WG
		Sample QC Type (SACode): CS
		Cooler ID:

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BC Laboratories, Inc.

Chain of Custody Form

Page 1 of 1

*Required Fields

From To: Client: Tidewater, Inc.		Project Description: JPL-GW Monitoring		Analysis Requested				Billing					
Attn: David Corner		Project Code: 2020		VOCs EPA 524.2 TRM: Cr, Pb, As, Ca, Mg, K, Ni, Fe Hexavalent Cr6 -216.6 (mg/L) Cl, NO3, NO2, SO4, Perch., CO3, HCO3, Alk., TDS, pH Orthophosphate 305.1 1,4 Dioxane 82708IM NDMA 1025M PAHs, Phthalates, Phenols				Client: Tidewater Attn: David Corner Address: 3761 Atucks Drive City: Powell State: OH Zip: 43065					
Street Address: 3761 Atucks Drive		Sampler(s): Elaine Tech						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					
City: Powell State: OH Zip: 43065								Notes					
Phone: (626) 298-5715 Fax: (614) 792-2897													
Email Address: david.corner@tidewater.net													
Submission #: 20-18328													
Sample #	Sample Description	Date	Time	Matrix*	VOCs	TRM	Hexavalent Cr6	Cl, NO3, NO2	CO3, HCO3, Alk., TDS, pH	Orthophosphate	1,4 Dioxane	NDMA	PAHs, Phthalates, Phenols
-1	13-13-062020	6/15/20	0900	L	X								
-2	MW-1		1253		X	X	X	X	X				
-3	MW-6		0900		X	X	X	X	X				Level IV + MS/MS
-4	MW-7		1043		X	X	X	X	X				
-5	MW-8		0459		X	X	X	X	X				Level IV + MS/MS
-6	MW-9		1230		X	X	X	X	X				
-7	MW-15		1149		X	X	X	X	X				
-8	MW-16		1115		X	X	X	X	X	X	X	X	
-9	Dup-7-262020		1154		X	X	X	X	X				
-10	Dup-8-262020		1305		X	X	X	X	X				
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: _____ *Additional Charges May Apply													
Comments: PLEASE NOTATE WHICH SAMPLES TO USE FOR QC (MSMSD) 90% Level II and 10% Level IV data validation required; Level IV Notated on C of C NOTE: ALL ANALYSIS REQUIRED TO HAVE CALIBRATION SUMMARIES (Inform QC)				MBU Site <input type="checkbox"/> CVX RCRA <input type="checkbox"/> Geotracker 5 File (CA Default) <input type="checkbox"/> Geotracker 2 File <input type="checkbox"/> Other (Specify) _____				Cost Center: Global 10 1. Relinquished By: _____ Date: 6-25-20 Time: 1400 2. Received By: _____ Date: 6/25/20 Time: 1845 3. Relinquished By: _____ Date: _____ Time: _____ 3. Received By: _____ Date: _____ Time: _____				CHK BY: DISTRIBUTION SUB OUT <input checked="" type="checkbox"/>	

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

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018328-01	Client Sample Name: JPL GW, TB-13-062520, 6/25/2020 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/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: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018328-01		Client Sample Name: JPL GW, TB-13-062520, 6/25/2020 9:00:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
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	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	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: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018328-01	Client Sample Name: JPL GW, TB-13-062520, 6/25/2020 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	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)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/30/20 09:00	06/30/20 15:46	MGC	MS-V5	1	B081316	EPA 524.2

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

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2018328-01	Client Sample Name: JPL GW, TB-13-062520, 6/25/2020 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/30/20 09:00	06/30/20	15:46	MGC	MS-V5	1	B081316	EPA 524.2

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Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018328-02	Client Sample Name: JPL GW, MW-1, 6/25/2020 12:53:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/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: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018328-02	Client Sample Name: JPL GW, MW-1, 6/25/2020 12:53:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.48	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.8	EPA-524.2	ND		1

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Tidewater Inc. - Powell
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Powell, OH 43065

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018328-02	Client Sample Name: JPL GW, MW-1, 6/25/2020 12:53:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/30/20 09:00	06/30/20 16:10	MGC	MS-V5	1	B081316	EPA 524.2

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

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2018328-02	Client Sample Name: JPL GW, MW-1, 6/25/2020 12:53:00PM, Blaine Tech
----------------------------------	--

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/30/20 09:00	06/30/20	16:10	MGC	MS-V5	1	B081316	EPA 524.2

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Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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Powell, OH 43065

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2018328-02	Client Sample Name: JPL GW, MW-1, 6/25/2020 12:53:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.00043	0.000069	EPA-218.6	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	ND	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/29/20 21:00	06/30/20 08:42		SAV	IC-4	2.160	B081311	No Prep
2	EPA-200.8	06/29/20 19:25	06/30/20 09:40		JNC	PE-EL2	1	B081265	EPA 200.2
3	EPA-200.7	06/29/20 17:50	06/30/20 16:43		JRG	PE-OP4	1	B081264	EPA 200.2

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Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018328-03	Client Sample Name: JPL GW, MW-6, 6/25/2020 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.48	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	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: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018328-03	Client Sample Name: JPL GW, MW-6, 6/25/2020 9:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	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	2.1	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	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: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018328-03	Client Sample Name: JPL GW, MW-6, 6/25/2020 9:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	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)	99.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/30/20 09:00	06/30/20 13:22	MGC	MS-V5	1	B081316	EPA 524.2

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Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2018328-03	Client Sample Name: JPL GW, MW-6, 6/25/2020 9:00:00AM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/30/20 09:00	06/30/20	13:22	MGC	MS-V5	1	B081316	EPA 524.2

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Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2018328-03	Client Sample Name: JPL GW, MW-6, 6/25/2020 9:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Bicarbonate	ND	mg/L	5.0	5.0	SM-2320B	ND		1
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		1
Total Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		1
Chloride	110	mg/L	0.50	0.13	EPA-300.0	0.16		2
Nitrate as N	7.4	mg/L	0.10	0.024	EPA-300.0	ND		2
Sulfate	100	mg/L	1.0	0.14	EPA-300.0	ND		2
pH	3.56	pH Units	0.05	0.05	EPA-150.1		S05	3
Total Dissolved Solids @ 180 C	570	mg/L	33	17	EPA-160.1	ND	A07	4
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		5
Perchlorate	1.6	ug/L	4.0	0.81	EPA-314.0	ND	J	6

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	SM-2320B	06/29/20 06:30	06/29/20	08:41	MEV	MET-1	1	B068004	No Prep
2	EPA-300.0	06/25/20 19:00	06/26/20	01:41	SAV	IC7	1	B081128	No Prep
3	EPA-150.1	06/29/20 06:30	06/29/20	08:41	MEV	MET-1	1	B068004	No Prep
4	EPA-160.1	06/29/20 14:30	06/29/20	14:30	CAD	MANUAL	3.333	B081176	No Prep
5	EPA-353.2	06/26/20 09:25	06/26/20	09:25	MC1	KONE-1	1	B081245	No Prep
6	EPA-314.0	07/01/20 19:00	07/02/20	03:57	SAV	IC6	1	B081428	No Prep

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Powell, OH 43065

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018328-04	Client Sample Name: JPL GW, MW-7, 6/25/2020 10:43:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	0.22	ug/L	0.50	0.20	EPA-524.2	ND	J	1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	6.0	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2018328-04) and Client Sample Name (JPL GW, MW-7, 6/25/2020 10:43:00AM, Blaine Tech)

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

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

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018328-04	Client Sample Name: JPL GW, MW-7, 6/25/2020 10:43:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/30/20 09:00	06/30/20 16:34	MGC	MS-V5	1	B081316	EPA 524.2

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

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2018328-04	Client Sample Name: JPL GW, MW-7, 6/25/2020 10:43:00AM, Blaine Tech
----------------------------------	--

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/30/20 09:00	06/30/20	16:34	MGC	MS-V5	1	B081316	EPA 524.2

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Tidewater Inc. - Powell
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Powell, OH 43065

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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Tidewater Inc. - Powell
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Powell, OH 43065

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2018328-04	Client Sample Name: JPL GW, MW-7, 6/25/2020 10:43:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0012	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	37	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	330	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/29/20 21:00	06/30/20 08:52		SAV	IC-4	1	B081311	No Prep
2	EPA-200.8	06/29/20 19:25	06/30/20 09:42		JNC	PE-EL2	1	B081265	EPA 200.2
3	EPA-200.7	06/29/20 17:50	06/30/20 16:49		JRG	PE-OP4	1	B081264	EPA 200.2

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Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018328-05	Client Sample Name: JPL GW, MW-8, 6/25/2020 9:59:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chloroform	0.31	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: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018328-05	Client Sample Name: JPL GW, MW-8, 6/25/2020 9:59:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	0.20	ug/L	0.50	0.14	EPA-524.2	ND	J	1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	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: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018328-05	Client Sample Name: JPL GW, MW-8, 6/25/2020 9:59:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/30/20 12:00	06/30/20 19:22	MGC	MS-V5	1	B081317	EPA 524.2

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3761 Attucks Drive
Powell, OH 43065

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2018328-05	Client Sample Name: JPL GW, MW-8, 6/25/2020 9:59:00AM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/30/20 12:00	06/30/20	19:22	MGC	MS-V5	1	B081317	EPA 524.2

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Powell, OH 43065

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2018328-05		Client Sample Name: JPL GW, MW-8, 6/25/2020 9:59:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	47	mg/L	0.10	0.014	EPA-200.7	0.018		1	
Total Recoverable Magnesium	16	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	24	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	2.7	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	170	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	140	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	24	mg/L	0.50	0.13	EPA-300.0	0.16		3	
Nitrate as N	1.1	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	38	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	7.50	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	300	mg/L	20	10	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		7	
ortho-Phosphate as P	0.027	mg/L	0.050	0.017	EPA-365.1	ND	J	8	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/29/20 17:50	06/30/20	16:30	JRG	PE-OP4	1	B081264	EPA 200.2
2	SM-2320B	06/29/20 10:30	06/29/20	11:16	MEV	MET-1	1	B068005	No Prep
3	EPA-300.0	06/25/20 19:00	06/26/20	01:05	SAV	IC5	1	B081125	No Prep
4	EPA-150.1	06/29/20 10:30	06/29/20	11:16	MEV	MET-1	1	B068005	No Prep
5	EPA-160.1	06/29/20 14:30	06/29/20	14:30	CAD	MANUAL	2	B081177	No Prep
6	EPA-353.2	06/26/20 09:25	06/26/20	09:44	MC1	KONE-1	1	B081246	No Prep
7	EPA-314.0	07/01/20 19:00	07/02/20	10:05	SAV	IC6	1	B081429	No Prep
8	EPA-365.1	06/26/20 07:37	06/26/20	07:46	MC1	SC-1	1	B081231	No Prep

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

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2018328-05	Client Sample Name: JPL GW, MW-8, 6/25/2020 9:59:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00029	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	6.0	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	44	ug/L	50	30	EPA-200.7	ND	J	3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-218.6	06/29/20 21:00	06/30/20 08:04	SAV	IC-4	1	B081311	No Prep
2	EPA-200.8	06/29/20 19:25	06/30/20 09:17	JNC	PE-EL2	1	B081265	EPA 200.2
3	EPA-200.7	06/29/20 17:50	06/30/20 16:30	JRG	PE-OP4	1	B081264	EPA 200.2

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3761 Attucks Drive
Powell, OH 43065

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018328-06	Client Sample Name: JPL GW, MW-9, 6/25/2020 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/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: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Table with 2 columns: BCL Sample ID (2018328-06) and Client Sample Name (JPL GW, MW-9, 6/25/2020 12:30:00PM, Blaine Tech)

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

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Powell, OH 43065

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018328-06	Client Sample Name: JPL GW, MW-9, 6/25/2020 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/30/20 09:00	06/30/20 16:58	MGC	MS-V5	1	B081316	EPA 524.2

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Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2018328-06	Client Sample Name: JPL GW, MW-9, 6/25/2020 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/30/20 09:00	06/30/20	16:58	MGC	MS-V5	1	B081316	EPA 524.2

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Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows 1-7 corresponding to the main analysis table.

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Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2018328-06	Client Sample Name: JPL GW, MW-9, 6/25/2020 12:30:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00052	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	2.2	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	56	ug/L	50	30	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/29/20 21:00	06/30/20 09:02		SAV	IC-4	1	B081311	No Prep
2	EPA-200.8	06/29/20 19:25	06/30/20 09:43		JNC	PE-EL2	1	B081265	EPA 200.2
3	EPA-200.7	06/29/20 17:50	06/30/20 16:51		JRG	PE-OP4	1	B081264	EPA 200.2

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Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018328-07	Client Sample Name: JPL GW, MW-15, 6/25/2020 11:49:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/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: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018328-07	Client Sample Name: JPL GW, MW-15, 6/25/2020 11:49:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	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: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018328-07	Client Sample Name: JPL GW, MW-15, 6/25/2020 11:49:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/30/20 09:00	06/30/20 17:22	MGC	MS-V5	1	B081316	EPA 524.2

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Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2018328-07	Client Sample Name: JPL GW, MW-15, 6/25/2020 11:49:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/30/20 09:00	06/30/20	17:22	MGC	MS-V5	1	B081316	EPA 524.2

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Powell, OH 43065

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

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

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

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2018328-07	Client Sample Name: JPL GW, MW-15, 6/25/2020 11:49:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00058	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	0.88	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	0.98	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	45	ug/L	50	30	EPA-200.7	ND	J	3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/29/20 21:00	06/30/20	09:11	SAV	IC-4	1	B081311	No Prep
2	EPA-200.8	06/29/20 19:25	06/30/20	09:45	JNC	PE-EL2	1	B081265	EPA 200.2
3	EPA-200.7	06/29/20 17:50	06/30/20	16:53	JRG	PE-OP4	1	B081264	EPA 200.2

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Tidewater Inc. - Powell
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Powell, OH 43065

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2018328-08	Client Sample Name:	JPL GW, MW-16, 6/25/2020 11:15:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
Bromodichloromethane	0.34	ug/L	0.50	0.20	EPA-524.2	ND	J	1	
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1	
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1	
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
Carbon tetrachloride	0.35	ug/L	0.50	0.17	EPA-524.2	ND	J	1	
Chlorobenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Chloroform	1.2	ug/L	0.50	0.14	EPA-524.2	ND		1	
Chloromethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
2-Chlorotoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
4-Chlorotoluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1	
Dibromochloromethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.89	EPA-524.2	ND		1	
1,2-Dibromoethane	ND	ug/L	0.50	0.22	EPA-524.2	ND		1	
Dibromomethane	ND	ug/L	0.50	0.23	EPA-524.2	ND		1	
1,2-Dichlorobenzene	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,3-Dichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
1,4-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Dichlorodifluoromethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,1-Dichloroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,1-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.27	EPA-524.2	ND		1	
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
1,2-Dichloropropane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,3-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
2,2-Dichloropropane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
1,1-Dichloropropene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	

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3761 Attucks Drive
Powell, OH 43065

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018328-08	Client Sample Name: JPL GW, MW-16, 6/25/2020 11:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	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: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018328-08	Client Sample Name: JPL GW, MW-16, 6/25/2020 11:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/30/20 09:00	06/30/20 17:46	MGC	MS-V5	1	B081316	EPA 524.2

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Powell, OH 43065

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2018328-08	Client Sample Name: JPL GW, MW-16, 6/25/2020 11:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/30/20 09:00	06/30/20	17:46	MGC	MS-V5	1	B081316	EPA 524.2

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Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

1,4-Dioxane (EPA Method 8270C)

BCL Sample ID: 2018328-08	Client Sample Name: JPL GW, MW-16, 6/25/2020 11:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,4-Dioxane	ND	ug/L	1.0	0.16	EPA-8270C	ND		1
Naphthalene-d8 (Surrogate)	137	%	70 - 130 (LCL - UCL)		EPA-8270C		A19	1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-8270C	07/01/20 19:00	07/07/20	11:27	OLH	MS-B4	0.990	B081567	EPA 3510C

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3761 Attucks Drive
Powell, OH 43065

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Table with 2 columns: BCL Sample ID (2018328-08) and Client Sample Name (JPL GW, MW-16, 6/25/2020 11:15:00AM, Blaine Tech)

Main data table with columns: Constituent, Result, Units, PQL, MDL, Method, MB Bias, Lab Quals, Run #. Rows include Bicarbonate, Carbonate, Total Alkalinity as CaCO3, Chloride, Nitrate as N, Sulfate, pH, Total Dissolved Solids @ 180 C, Nitrite as N, Perchlorate, and ortho-Phosphate as P.

QC table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, Batch ID, Prep Method. Rows 1-7 corresponding to the main data table.

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Powell, OH 43065

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018328-09	Client Sample Name: JPL GW, Dup-7-2Q2020, 6/25/2020 11:54:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/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: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	2018328-09	Client Sample Name:	JPL GW, Dup-7-2Q2020, 6/25/2020 11:54:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1	
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1	
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
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	10	9.4	EPA-524.2	ND		1	
Carbon disulfide	ND	ug/L	1.0	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: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018328-09	Client Sample Name: JPL GW, Dup-7-2Q2020, 6/25/2020 11:54:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	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)	99.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	99.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/30/20 09:00	06/30/20 18:10	MGC	MS-V5	1	B081316	EPA 524.2

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Powell, OH 43065

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2018328-09	Client Sample Name: JPL GW, Dup-7-2Q2020, 6/25/2020 11:54:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/30/20 09:00	06/30/20	18:10	MGC	MS-V5	1	B081316	EPA 524.2

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Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 2018328-09		Client Sample Name: JPL GW, Dup-7-2Q2020, 6/25/2020 11:54:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	47	mg/L	0.10	0.014	EPA-200.7	0.018		1	
Total Recoverable Magnesium	15	mg/L	0.050	0.019	EPA-200.7	ND		1	
Total Recoverable Sodium	24	mg/L	0.50	0.051	EPA-200.7	ND		1	
Total Recoverable Potassium	2.7	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	150	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	120	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	29	mg/L	0.50	0.13	EPA-300.0	0.16		3	
Nitrate as N	0.49	mg/L	0.10	0.024	EPA-300.0	ND		3	
Sulfate	27	mg/L	1.0	0.14	EPA-300.0	ND		3	
pH	7.17	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	270	mg/L	20	10	EPA-160.1	ND	A07	5	
Nitrite as N	ND	mg/L	0.050	0.010	EPA-353.2	ND		6	
Perchlorate	ND	ug/L	4.0	0.81	EPA-314.0	ND		7	

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-200.7	06/29/20 17:50	06/30/20 16:55		JRG	PE-OP4	1	B081264	EPA 200.2
2	SM-2320B	06/29/20 06:30	06/29/20 09:51		MEV	MET-1	1	B068004	No Prep
3	EPA-300.0	06/25/20 19:00	06/26/20 05:34		SAV	IC7	1	B081128	No Prep
4	EPA-150.1	06/29/20 06:30	06/29/20 09:51		MEV	MET-1	1	B068004	No Prep
5	EPA-160.1	06/29/20 14:30	06/29/20 14:30		CAD	MANUAL	2	B081177	No Prep
6	EPA-353.2	06/26/20 09:25	06/26/20 09:29		MC1	KONE-1	1	B081245	No Prep
7	EPA-314.0	07/01/20 19:00	07/02/20 12:35		SAV	IC6	1	B081429	No Prep

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Powell, OH 43065

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2018328-09	Client Sample Name: JPL GW, Dup-7-2Q2020, 6/25/2020 11:54:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00058	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	0.86	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	1.1	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	41	ug/L	50	30	EPA-200.7	ND	J	3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-218.6	06/29/20 21:00	06/30/20 09:40	SAV	IC-4	1	B081311	No Prep
2	EPA-200.8	06/29/20 19:25	06/30/20 09:47	JNC	PE-EL2	1	B081265	EPA 200.2
3	EPA-200.7	06/29/20 17:50	06/30/20 16:55	JRG	PE-OP4	1	B081264	EPA 200.2

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Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018328-10	Client Sample Name: JPL GW, Dup-8-2Q2020, 6/25/2020 1:03:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.46	EPA-524.2	ND		1
Bromomethane	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Chlorobenzene	ND	ug/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: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018328-10	Client Sample Name: JPL GW, Dup-8-2Q2020, 6/25/2020 1:03:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.23	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.21	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.78	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Acetone	ND	ug/L	10	6.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.47	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	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: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 2018328-10	Client Sample Name: JPL GW, Dup-8-2Q2020, 6/25/2020 1:03:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.33	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	1.3	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.32	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	5.0	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	2.3	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	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	10	2.4	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.63	EPA-524.2	ND	V01	1
Propionitrile	ND	ug/L	20	6.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.34	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID	Prep Method
1	EPA-524.2	06/30/20 09:00	06/30/20 18:34	MGC	MS-V5	1	B081316	EPA 524.2

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Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 2018328-10	Client Sample Name: JPL GW, Dup-8-2Q2020, 6/25/2020 1:03:00PM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-524.2	06/30/20 09:00	06/30/20	18:34	MGC	MS-V5	1	B081316	EPA 524.2

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Powell, OH 43065

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

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

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID, Prep Method. Rows 1-7 corresponding to the main analysis table.

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Powell, OH 43065

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 2018328-10	Client Sample Name: JPL GW, Dup-8-2Q2020, 6/25/2020 1:03:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.00020	0.000032	EPA-218.6	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	32	ug/L	50	30	EPA-200.7	ND	J	3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	Prep Method
1	EPA-218.6	06/29/20 21:00	06/30/20	09:49	SAV	IC-4	1	B081311	No Prep
2	EPA-200.8	06/29/20 19:25	06/30/20	09:49	JNC	PE-EL2	1	B081265	EPA 200.2
3	EPA-200.7	06/29/20 17:50	06/30/20	16:58	JRG	PE-OP4	1	B081264	EPA 200.2

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

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B081316						
Benzene	B081316-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B081316-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B081316-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B081316-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B081316-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B081316-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B081316-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B081316-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B081316-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B081316-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B081316-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B081316-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B081316-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B081316-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B081316-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B081316-BLK1	ND	ug/L	0.50	0.093	
Dibromochloromethane	B081316-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B081316-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B081316-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B081316-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B081316-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B081316-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B081316-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B081316-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B081316-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B081316-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B081316-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B081316-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B081316-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B081316-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B081316-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B081316-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B081316-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B081316-BLK1	ND	ug/L	0.50	0.14	

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Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B081316						
trans-1,3-Dichloropropene	B081316-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B081316-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B081316-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B081316-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B081316-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B081316-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B081316-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B081316-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B081316-BLK1	ND	ug/L	0.50	0.12	
Styrene	B081316-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B081316-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2,2-Tetrachloroethane	B081316-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B081316-BLK1	ND	ug/L	0.50	0.23	
Toluene	B081316-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B081316-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B081316-BLK1	ND	ug/L	0.50	0.15	
1,1,1-Trichloroethane	B081316-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B081316-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B081316-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B081316-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B081316-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B081316-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B081316-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B081316-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B081316-BLK1	ND	ug/L	0.50	0.18	
Acetone	B081316-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B081316-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B081316-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B081316-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B081316-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	B081316-BLK1	ND	ug/L	1.0	0.48	
trans-1,4-Dichloro-2-butene	B081316-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B081316-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B081316-BLK1	ND	ug/L	4.0	1.3	

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Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
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QC Batch ID: B081316

Ethyl t-butyl ether	B081316-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B081316-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B081316-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B081316-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B081316-BLK1	ND	ug/L	10	3.3	
Methyl iodide	B081316-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B081316-BLK1	ND	ug/L	10	2.4	
Methyl methacrylate	B081316-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B081316-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B081316-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B081316-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B081316-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B081316-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B081316-BLK1	102	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B081316-BLK1	99.0	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B081316-BLK1	100	%	80 - 120 (LCL - UCL)		

QC Batch ID: B081317

Benzene	B081317-BLK1	ND	ug/L	0.50	0.11	
Bromobenzene	B081317-BLK1	ND	ug/L	0.50	0.15	
Bromochloromethane	B081317-BLK1	ND	ug/L	0.50	0.27	
Bromodichloromethane	B081317-BLK1	ND	ug/L	0.50	0.20	
Bromoform	B081317-BLK1	ND	ug/L	0.50	0.46	
Bromomethane	B081317-BLK1	ND	ug/L	0.50	0.20	
n-Butylbenzene	B081317-BLK1	ND	ug/L	0.50	0.15	
sec-Butylbenzene	B081317-BLK1	ND	ug/L	0.50	0.13	
tert-Butylbenzene	B081317-BLK1	ND	ug/L	0.50	0.18	
Carbon tetrachloride	B081317-BLK1	ND	ug/L	0.50	0.17	
Chlorobenzene	B081317-BLK1	ND	ug/L	0.50	0.14	
Chloroethane	B081317-BLK1	ND	ug/L	0.50	0.17	
Chloroform	B081317-BLK1	ND	ug/L	0.50	0.14	
Chloromethane	B081317-BLK1	ND	ug/L	0.50	0.11	
2-Chlorotoluene	B081317-BLK1	ND	ug/L	0.50	0.14	
4-Chlorotoluene	B081317-BLK1	ND	ug/L	0.50	0.093	

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Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B081317						
Dibromochloromethane	B081317-BLK1	ND	ug/L	0.50	0.22	
1,2-Dibromo-3-chloropropane	B081317-BLK1	ND	ug/L	1.0	0.89	
1,2-Dibromoethane	B081317-BLK1	ND	ug/L	0.50	0.22	
Dibromomethane	B081317-BLK1	ND	ug/L	0.50	0.23	
1,2-Dichlorobenzene	B081317-BLK1	ND	ug/L	0.50	0.21	
1,3-Dichlorobenzene	B081317-BLK1	ND	ug/L	0.50	0.16	
1,4-Dichlorobenzene	B081317-BLK1	ND	ug/L	0.50	0.15	
Dichlorodifluoromethane	B081317-BLK1	ND	ug/L	0.50	0.15	
1,1-Dichloroethane	B081317-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloroethane	B081317-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	B081317-BLK1	ND	ug/L	0.50	0.27	
cis-1,2-Dichloroethene	B081317-BLK1	ND	ug/L	0.50	0.27	
trans-1,2-Dichloroethene	B081317-BLK1	ND	ug/L	0.50	0.17	
1,2-Dichloropropane	B081317-BLK1	ND	ug/L	0.50	0.15	
1,3-Dichloropropane	B081317-BLK1	ND	ug/L	0.50	0.13	
2,2-Dichloropropane	B081317-BLK1	ND	ug/L	0.50	0.18	
1,1-Dichloropropene	B081317-BLK1	ND	ug/L	0.50	0.19	
cis-1,3-Dichloropropene	B081317-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	B081317-BLK1	ND	ug/L	0.50	0.13	
Ethylbenzene	B081317-BLK1	ND	ug/L	0.50	0.15	
Hexachlorobutadiene	B081317-BLK1	ND	ug/L	0.50	0.20	
Isopropylbenzene	B081317-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	B081317-BLK1	ND	ug/L	0.50	0.14	
Methylene chloride	B081317-BLK1	ND	ug/L	0.50	0.21	
Methyl t-butyl ether	B081317-BLK1	ND	ug/L	0.50	0.14	
Naphthalene	B081317-BLK1	ND	ug/L	0.50	0.16	
n-Propylbenzene	B081317-BLK1	ND	ug/L	0.50	0.12	
Styrene	B081317-BLK1	ND	ug/L	0.50	0.12	
1,1,1,2-Tetrachloroethane	B081317-BLK1	ND	ug/L	0.50	0.21	
1,1,1,2,2-Tetrachloroethane	B081317-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	B081317-BLK1	ND	ug/L	0.50	0.23	
Toluene	B081317-BLK1	ND	ug/L	0.50	0.17	
1,2,3-Trichlorobenzene	B081317-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trichlorobenzene	B081317-BLK1	ND	ug/L	0.50	0.15	

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Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B081317						
1,1,1-Trichloroethane	B081317-BLK1	ND	ug/L	0.50	0.21	
1,1,2-Trichloroethane	B081317-BLK1	ND	ug/L	0.50	0.21	
Trichloroethene	B081317-BLK1	ND	ug/L	0.50	0.19	
Trichlorofluoromethane	B081317-BLK1	ND	ug/L	0.50	0.14	
1,2,3-Trichloropropane	B081317-BLK1	ND	ug/L	1.0	0.78	
1,1,2-Trichloro-1,2,2-trifluoroethane	B081317-BLK1	ND	ug/L	0.50	0.19	
1,2,4-Trimethylbenzene	B081317-BLK1	ND	ug/L	0.50	0.17	
1,3,5-Trimethylbenzene	B081317-BLK1	ND	ug/L	0.50	0.14	
Vinyl chloride	B081317-BLK1	ND	ug/L	0.50	0.18	
Acetone	B081317-BLK1	ND	ug/L	10	6.6	
Acrylonitrile	B081317-BLK1	ND	ug/L	5.0	1.5	
Allyl chloride	B081317-BLK1	ND	ug/L	5.0	0.47	
t-Amyl Methyl ether	B081317-BLK1	ND	ug/L	0.50	0.19	
t-Butyl alcohol	B081317-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	B081317-BLK1	ND	ug/L	1.0	0.48	
trans-1,4-Dichloro-2-butene	B081317-BLK1	ND	ug/L	5.0	1.8	
Diethyl ether	B081317-BLK1	ND	ug/L	2.0	0.33	
Ethyl methacrylate	B081317-BLK1	ND	ug/L	4.0	1.3	
Ethyl t-butyl ether	B081317-BLK1	ND	ug/L	0.50	0.32	
Hexachloroethane	B081317-BLK1	ND	ug/L	0.50	0.11	
2-Hexanone	B081317-BLK1	ND	ug/L	10	5.0	
Methacrylonitrile	B081317-BLK1	ND	ug/L	10	2.3	
Methyl ethyl ketone	B081317-BLK1	ND	ug/L	10	3.3	
Methyl iodide	B081317-BLK1	ND	ug/L	2.0	1.1	
Methyl isobutyl ketone	B081317-BLK1	ND	ug/L	10	2.4	
Methyl methacrylate	B081317-BLK1	ND	ug/L	5.0	1.2	
Pentachloroethane	B081317-BLK1	ND	ug/L	2.0	0.63	
Propionitrile	B081317-BLK1	ND	ug/L	20	6.2	
Tetrahydrofuran	B081317-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	B081317-BLK1	ND	ug/L	0.50	0.34	
o-Xylene	B081317-BLK1	ND	ug/L	0.50	0.13	
1,2-Dichloroethane-d4 (Surrogate)	B081317-BLK1	103	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	B081317-BLK1	99.5	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	B081317-BLK1	97.8	%	80 - 120 (LCL - UCL)		

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Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: B081316										
Benzene	B081316-BS1	LCS	24.750	25.000	ug/L	99.0		70 - 130		
Bromodichloromethane	B081316-BS1	LCS	25.090	25.000	ug/L	100		70 - 130		
Chlorobenzene	B081316-BS1	LCS	23.230	25.000	ug/L	92.9		70 - 130		
Chloroethane	B081316-BS1	LCS	25.090	25.000	ug/L	100		70 - 130		
1,4-Dichlorobenzene	B081316-BS1	LCS	23.780	25.000	ug/L	95.1		70 - 130		
1,1-Dichloroethane	B081316-BS1	LCS	25.250	25.000	ug/L	101		70 - 130		
1,1-Dichloroethene	B081316-BS1	LCS	25.500	25.000	ug/L	102		70 - 130		
Toluene	B081316-BS1	LCS	23.640	25.000	ug/L	94.6		70 - 130		
Trichloroethene	B081316-BS1	LCS	24.410	25.000	ug/L	97.6		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B081316-BS1	LCS	10.030	10.000	ug/L	100		75 - 125		
Toluene-d8 (Surrogate)	B081316-BS1	LCS	10.020	10.000	ug/L	100		80 - 120		
4-Bromofluorobenzene (Surrogate)	B081316-BS1	LCS	10.200	10.000	ug/L	102		80 - 120		

QC Batch ID: B081317										
Benzene	B081317-BS1	LCS	25.500	25.000	ug/L	102		70 - 130		
Bromodichloromethane	B081317-BS1	LCS	25.700	25.000	ug/L	103		70 - 130		
Chlorobenzene	B081317-BS1	LCS	24.350	25.000	ug/L	97.4		70 - 130		
Chloroethane	B081317-BS1	LCS	25.080	25.000	ug/L	100		70 - 130		
1,4-Dichlorobenzene	B081317-BS1	LCS	24.530	25.000	ug/L	98.1		70 - 130		
1,1-Dichloroethane	B081317-BS1	LCS	25.630	25.000	ug/L	103		70 - 130		
1,1-Dichloroethene	B081317-BS1	LCS	25.610	25.000	ug/L	102		70 - 130		
Toluene	B081317-BS1	LCS	24.430	25.000	ug/L	97.7		70 - 130		
Trichloroethene	B081317-BS1	LCS	27.020	25.000	ug/L	108		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	B081317-BS1	LCS	10.140	10.000	ug/L	101		75 - 125		
Toluene-d8 (Surrogate)	B081317-BS1	LCS	9.9900	10.000	ug/L	99.9		80 - 120		
4-Bromofluorobenzene (Surrogate)	B081317-BS1	LCS	10.410	10.000	ug/L	104		80 - 120		

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3761 Attucks Drive
Powell, OH 43065

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes QC Batch ID: B081316 and Used client sample: Y - Description: MW-6, 06/25/2020 09:00.

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes QC Batch ID: B081317 and Used client sample: Y - Description: MW-8, 06/25/2020 09:59.

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

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: B081317		Used client sample: Y - Description: MW-8, 06/25/2020 09:59								
1,1-Dichloroethene	MS	2018328-05	ND	25.650	25.000	ug/L		103		70 - 130
	MSD	2018328-05	ND	25.440	25.000	ug/L	0.8	102	20	70 - 130
Toluene	MS	2018328-05	ND	24.240	25.000	ug/L		97.0		70 - 130
	MSD	2018328-05	ND	24.280	25.000	ug/L	0.2	97.1	20	70 - 130
Trichloroethene	MS	2018328-05	ND	24.490	25.000	ug/L		98.0		70 - 130
	MSD	2018328-05	ND	24.790	25.000	ug/L	1.2	99.2	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	2018328-05	ND	10.260	10.000	ug/L		103		75 - 125
	MSD	2018328-05	ND	10.060	10.000	ug/L	2.0	101		75 - 125
Toluene-d8 (Surrogate)	MS	2018328-05	ND	10.190	10.000	ug/L		102		80 - 120
	MSD	2018328-05	ND	9.8400	10.000	ug/L	3.5	98.4		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	2018328-05	ND	10.210	10.000	ug/L		102		80 - 120
	MSD	2018328-05	ND	9.9900	10.000	ug/L	2.2	99.9		80 - 120

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Powell, OH 43065

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B081316						
Chloroacetonitrile	B081316-BLK1	0	ug/L			
1-Chlorobutane	B081316-BLK1	0	ug/L			
1,1-Dichloropropanone	B081316-BLK1	0	ug/L			
Methyl acrylate	B081316-BLK1	0	ug/L			
Nitrobenzene	B081316-BLK1	0	ug/L			
2-Nitropropane	B081316-BLK1	0	ug/L			
QC Batch ID: B081317						
Chloroacetonitrile	B081317-BLK1	0	ug/L			
1-Chlorobutane	B081317-BLK1	0	ug/L			
1,1-Dichloropropanone	B081317-BLK1	0	ug/L			
Methyl acrylate	B081317-BLK1	0	ug/L			
Nitrobenzene	B081317-BLK1	0	ug/L			
2-Nitropropane	B081317-BLK1	0	ug/L			

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Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

1,4-Dioxane (EPA Method 8270C)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B081567						
1,4-Dioxane	B081567-BLK1	ND	ug/L	1.0	0.16	
Naphthalene-d8 (Surrogate)	B081567-BLK1	91.5	%	70 - 130 (LCL - UCL)		

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Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

1,4-Dioxane (EPA Method 8270C)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B081567										
1,4-Dioxane	B081567-BS1	LCS	42.029	50.000	ug/L	84.1		70	130	
Naphthalene-d8 (Surrogate)	B081567-BS1	LCS	7.4400	8.0000	ug/L	93.0		70	130	

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Powell, OH 43065

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

1,4-Dioxane (EPA Method 8270C)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: B081567		Used client sample: N								
1,4-Dioxane	MS	2016224-86	ND	42.246	50.000	ug/L		84.5		70 - 130
	MSD	2016224-86	ND	43.817	50.000	ug/L	3.7	87.6	30	70 - 130
Naphthalene-d8 (Surrogate)	MS	2016224-86	ND	7.3530	8.0000	ug/L		91.9		70 - 130
	MSD	2016224-86	ND	7.9398	8.0000	ug/L	7.7	99.2		70 - 130

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Powell, OH 43065

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B068004						
Bicarbonate	B068004-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B068004-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B068004-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: B068005						
Bicarbonate	B068005-BLK1	ND	mg/L	5.0	5.0	
Carbonate	B068005-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	B068005-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: B081125						
Chloride	B081125-BLK1	0.16000	mg/L	0.50	0.13	J
Nitrate as N	B081125-BLK1	ND	mg/L	0.10	0.024	
Sulfate	B081125-BLK1	ND	mg/L	1.0	0.14	
QC Batch ID: B081128						
Chloride	B081128-BLK1	0.15700	mg/L	0.50	0.13	J
Nitrate as N	B081128-BLK1	ND	mg/L	0.10	0.024	
Sulfate	B081128-BLK1	ND	mg/L	1.0	0.14	
QC Batch ID: B081176						
Total Dissolved Solids @ 180 C	B081176-BLK1	ND	mg/L	6.7	3.3	
QC Batch ID: B081177						
Total Dissolved Solids @ 180 C	B081177-BLK1	ND	mg/L	6.7	3.3	
QC Batch ID: B081231						
ortho-Phosphate as P	B081231-BLK1	ND	mg/L	0.050	0.017	
QC Batch ID: B081245						
Nitrite as N	B081245-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: B081246						
Nitrite as N	B081246-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: B081264						
Total Recoverable Calcium	B081264-BLK1	0.018287	mg/L	0.10	0.014	J
Total Recoverable Magnesium	B081264-BLK1	ND	mg/L	0.050	0.019	
Total Recoverable Sodium	B081264-BLK1	ND	mg/L	0.50	0.051	
Total Recoverable Potassium	B081264-BLK1	ND	mg/L	1.0	0.10	

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Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B081428						
Perchlorate	B081428-BLK1	ND	ug/L	4.0	0.81	
QC Batch ID: B081429						
Perchlorate	B081429-BLK1	ND	ug/L	4.0	0.81	

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Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits		Lab Quals
							RPD	Percent Recovery	
QC Batch ID: B068004									
Total Alkalinity as CaCO3	B068004-BS3	LCS	98.730	100.00	mg/L	98.7		90 - 110	
pH	B068004-BS2	LCS	7.0000	7.0000	pH Units	100		95 - 105	
QC Batch ID: B068005									
Total Alkalinity as CaCO3	B068005-BS3	LCS	99.490	100.00	mg/L	99.5		90 - 110	
pH	B068005-BS2	LCS	7.0000	7.0000	pH Units	100		95 - 105	
QC Batch ID: B081125									
Chloride	B081125-BS1	LCS	52.165	50.000	mg/L	104		90 - 110	
Nitrate as N	B081125-BS1	LCS	5.2180	5.0000	mg/L	104		90 - 110	
Sulfate	B081125-BS1	LCS	102.31	100.00	mg/L	102		90 - 110	
QC Batch ID: B081128									
Chloride	B081128-BS1	LCS	52.163	50.000	mg/L	104		90 - 110	
Nitrate as N	B081128-BS1	LCS	5.1830	5.0000	mg/L	104		90 - 110	
Sulfate	B081128-BS1	LCS	103.65	100.00	mg/L	104		90 - 110	
QC Batch ID: B081176									
Total Dissolved Solids @ 180 C	B081176-BS1	LCS	550.00	586.00	mg/L	93.9		90 - 110	
QC Batch ID: B081177									
Total Dissolved Solids @ 180 C	B081177-BS1	LCS	545.00	586.00	mg/L	93.0		90 - 110	
QC Batch ID: B081231									
ortho-Phosphate as P	B081231-BS1	LCS	0.49380	0.50000	mg/L	98.8		90 - 110	
QC Batch ID: B081245									
Nitrite as N	B081245-BS1	LCS	0.48845	0.50000	mg/L	97.7		90 - 110	
QC Batch ID: B081246									
Nitrite as N	B081246-BS1	LCS	0.49498	0.50000	mg/L	99.0		90 - 110	
QC Batch ID: B081264									
Total Recoverable Calcium	B081264-BS1	LCS	10.568	10.000	mg/L	106		85 - 115	
Total Recoverable Magnesium	B081264-BS1	LCS	10.800	10.000	mg/L	108		85 - 115	
Total Recoverable Sodium	B081264-BS1	LCS	10.781	10.000	mg/L	108		85 - 115	
Total Recoverable Potassium	B081264-BS1	LCS	10.340	10.000	mg/L	103		85 - 115	
QC Batch ID: B081428									
Perchlorate	B081428-BS1	LCS	10.134	10.000	ug/L	101		85 - 115	
QC Batch ID: B081429									
Perchlorate	B081429-BS1	LCS	10.143	10.000	ug/L	101		85 - 115	

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Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)
Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Qualls. Includes multiple QC Batch sections (B068004, B068005, B081125, B081128, B081176, B081177, B081231) with detailed data for various ions like Bicarbonate, Carbonate, Chloride, Nitrate, Sulfate, and pH.

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Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Control Limits Percent Recovery, Lab Quals. Includes QC Batch IDs B081231, B081245, B081246, B081264, B081428, and B081429.

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Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: B081264						
Total Recoverable Iron	B081264-BLK1	ND	ug/L	50	30	
QC Batch ID: B081265						
Total Recoverable Arsenic	B081265-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	B081265-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	B081265-BLK1	ND	ug/L	1.0	0.10	
QC Batch ID: B081311						
Hexavalent Chromium	B081311-BLK1	ND	mg/L	0.00020	0.000032	

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Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: B081264										
Total Recoverable Iron	B081264-BS1	LCS	1135.6	1000.0	ug/L	114		85 - 115		
QC Batch ID: B081265										
Total Recoverable Arsenic	B081265-BS1	LCS	107.85	100.00	ug/L	108		85 - 115		
Total Recoverable Chromium	B081265-BS1	LCS	43.164	40.000	ug/L	108		85 - 115		
Total Recoverable Lead	B081265-BS1	LCS	112.02	100.00	ug/L	112		85 - 115		
QC Batch ID: B081311										
Hexavalent Chromium	B081311-BS1	LCS	0.020330	0.020000	mg/L	102		90 - 110		

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Reported: 07/09/2020 14:43
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Project Number: 2Q20
Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: B081264		Used client sample: Y - Description: MW-8, 06/25/2020 09:59								
Total Recoverable Iron	DUP	2018328-05	44.201	37.315		ug/L	16.9		20	J
	MS	2018328-05	44.201	1123.2	1000.0	ug/L		108	75 - 125	
	MSD	2018328-05	44.201	1155.6	1000.0	ug/L	2.8	111	20	75 - 125
QC Batch ID: B081265		Used client sample: Y - Description: MW-8, 06/25/2020 09:59								
Total Recoverable Arsenic	DUP	2018328-05	ND	ND		ug/L			20	
	MS	2018328-05	ND	110.22	100.00	ug/L		110		70 - 130
	MSD	2018328-05	ND	111.36	100.00	ug/L	1.0	111	20	70 - 130
Total Recoverable Chromium	DUP	2018328-05	5.9510	5.8580		ug/L	1.6		20	
	MS	2018328-05	5.9510	47.652	40.000	ug/L		104		70 - 130
	MSD	2018328-05	5.9510	47.486	40.000	ug/L	0.3	104	20	70 - 130
Total Recoverable Lead	DUP	2018328-05	ND	ND		ug/L			20	
	MS	2018328-05	ND	107.95	100.00	ug/L		108		70 - 130
	MSD	2018328-05	ND	104.93	100.00	ug/L	2.8	105	20	70 - 130
QC Batch ID: B081311		Used client sample: Y - Description: MW-8, 06/25/2020 09:59								
Hexavalent Chromium	DUP	2018328-05	0.00028900	0.00026800		mg/L	7.5		10	
	MS	2018328-05	0.00028900	0.020680	0.020202	mg/L		101		90 - 110
	MSD	2018328-05	0.00028900	0.020772	0.020202	mg/L	0.4	101	10	90 - 110

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Certificate of Analysis

FINAL REPORT

Work Orders: OF29017

Project: 2018328

Attn: Natalie Serda

Client: BC Laboratories
4100 Atlas Court
Bakersfield, CA 93308

Report Date: 7/02/2020

Received Date: 6/27/2020

Turnaround Time: Normal

Phones: (661) 327-4911

Fax: (661) 327-1918

P.O. #:

Billing Code:

Dear Natalie Serda,

Enclosed are the results of analyses for samples received 6/27/20 with the Chain-of-Custody document. The samples were received in good condition, at 3.5 °C and on ice. All analyses met the method criteria except as noted in the case narrative or in the report with data qualifiers.

Sample Results

Sample: 2018328-08 Sampled: 06/25/20 11:15 by Client
0F29017-01 (Water)

Analyte	Result	MRL	Units	Dil	Analyzed	Qualifier
Method: EPA 1625M N-Nitrosodimethylamine	Batch ID: W0F1764 Instr: GCMS09 ND	Prepared: 05/30/20 09:45 2.0	ng/l	1	Analyst: mld 06/30/20	

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Certificate of Analysis
FINAL REPORT

Quality Control Results

Nitrosamines by isotopic dilution GC/MS CI Mode

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	RPD	Limit	Qualifier
Batch: W0F1764 - EPA 3535/SPE									
Blank (W0F1764-BLK1)				Prepared & Analyzed: 06/30/20					
N-Nitrosodimethylamine	ND	2.0	ng/l						
LCS (W0F1764-BS1)				Prepared & Analyzed: 06/30/20					
N-Nitrosodimethylamine	1.78	2.0	ng/l	2.00		89		50-150	
LCS Dup (W0F1764-BSD1)				Prepared & Analyzed: 06/30/20					
N-Nitrosodimethylamine	1.82	2.0	ng/l	2.00		91	3	50-150	50

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Certificate of Analysis

FINAL REPORT

Notes and Definitions

Item	Definition
%REC	Percent Recovery
DI	Dilution
MRL	The minimum levels, concentrations, or quantities of a target variable (e.g., target analyte) that can be reported with a specified degree of confidence. The MRL is also known as Limit of Quantitation (LOQ)
ND	NOT DETECTED at or above the Method Reporting Limit (MRL). If Method Detection Limit (MDL) is reported, then ND means not detected at or above the MDL.
RPD	Relative Percent Difference

Any remaining sample(s) will be disposed of one month from the final report date unless other arrangements are made in advance.

All results are expressed on wet weight basis unless otherwise specified.

All samples collected by Weck Laboratories have been sampled in accordance to laboratory SOP Number MIS002.

Reviewed by:

Regina M. Giancola
Project Manager



ELAP-CA #1132 • EPA-UCMR #CA00211 • HW-DOH # • ISO17025 ANAB #L2457.01 • LACSD #10143 • NELAP-OR #4047 •
NJ-DEP #CAD15 • NV-DEP #NAC 445A • SCAQMD #93LA1006

This is a complete final report. The information in this report applies to the samples analyzed in accordance with the chain-of-custody document. Weck Laboratories certifies that the test results meet all requirements of TNI unless noted by qualifiers or written in the Case Narrative. This analytical report must be reproduced in its entirety.



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

Reported: 07/09/2020 14:43
Project: JPL- GW Monitoring Wells
Project Number: 2Q20
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected
- PQL Practical Quantitation Limit
- A02 The difference between duplicate readings is less than the quantitation limit.
- A07 Detection and quantitation limits were raised due to sample dilution caused by high analyte concentration or matrix interference.
- A19 Surrogate is high due to matrix interference. Interferences verified through second extraction/analysis.
- S05 The sample holding time was exceeded.
- V01 The Initial Calibration Verification (ICV) recovery is not within established control limits.
- V11 The Continuing Calibration Verification (CCV) recovery was not within established control limits.