ATTACHMENT 3: LABORATORY ANALYTICAL REPORTS

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

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 02/11/2014

David Conner

Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Client Project:	1st Qtr.
BCL Project:	JPL- GW Monitoring Wells
BCL Work Order:	1401914
Invoice ID:	B165973

Enclosed are the results of analyses for samples received by the laboratory on 1/27/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton
Client Service Rep

Authorized Signature

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BC Laboratories, Inc. — Chain of Custody Form

*Required Fields

Page 1 of 2

Report To: Client:* Tidewater, Inc.	Project Description:* JPL-GW Monitoring
Attn:* David Conner	
Street Address:* 3761 Attucks Drive	Project Code:* 1st Qtr.
City:* Powell State:* OH Zip:* 43065	
Phone#:* (614) 792 - 2897 Fax#: (614) 792 - 2897	Sampler (s):* Blaine Tech
Email Address: david.conner@tideh2o.net	
Submission #: 14-0194	

Billing
Client:* Tidewater, Inc. (P.O. #1213-000-02)
Attn:* As directed by Ben Headington
Address:* 6625 Selnick Drive, Suite A
City:* Elkridge State:* MD Zip:* 21075
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*	VOCs EPA 524.2	Total Chromium 200.8 (ug/L)	Perchlorate 314.0	Hexavalent Cr6 -7196 (mg/L)	Chloride, Nitrate, Sulfate	Orthophosphate 365.1	Nitrite 353.2			
-1	TB-1-1/27/14	1-27-14	0700	AQ	X									
-2	SB-1-1/27/14		0800		X	X	X	X						
-3	ER-1-1/27/14		0815		X	X	X	X						
-4	MW-4-3		0900		X	X	X	X						
-5	DUP-1-1Q14		0910		X	X	X	X						
-6	MW-4-2		1000		X	X	X	X						
-7	MW-4-1		1040		X	X	X	X						
-8	MW-14-5		1150		X		X							
-9	MW-14-4		1220		X		X							
-10	MW-14-3		1250		X	X	X	X						
-11	MW-14-2	↓	1320	↓	X	X	X	X						

Notes
RT HOLDING TIME
Cl NO_2 NO_3 OP SS
DO Cl ROD MBAS COT
CHK BY DISTRIBUTION
SLS JLK WP WT
MS/MSD SUB-OUT ☐
Level IV

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)

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

Cost Center: _____ Global ID: _____

	Relinquished By:	Date	Time	Received By:	Date	Time
1.	Andy Woff	1/27/14	1530	Nicole	1/27/14	1530
2.	Nicole	1/27/14	1620		1/27/14	1620
3.		1/27/14	1910		1/27/14	1910

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BC Laboratories, Inc.

Chain of Custody Form

*Required Fields

Page 2 of 2

Report To: Client:* Tidewater, Inc.	Project Description:* JPL-GW Monitoring
Attn:* David Conner	
Street Address:* 3761 Attucks Drive	Project Code:* 1st Qtr.
City:* Powell State:* OH Zip:* 43065	
Phone#:* (614) 792 - 2897 Fax#: (614) 792 - 2897	Sampler (s):* Blaine Tech
Email Address: david.conner@tideh2o.net	
Submission #: 14-01914	

Sample #	Sample Description	Date	Time	Matrix*	VOCs EPA 524.2	Total Chromium 200.8 (ug/L)	Perchlorate 314.0	Hexavalent Cr6 -7196 (mg/L)	Chloride, Nitrate, Sulfate	Orthophosphate 365.1	Nitrite 353.2			
-12	MW-14-1	1-27-14	1350	AQ	X	X	X	X						

Analysis Requested

Billing

Client:* Tidewater, Inc. (P.O. #1213-000-02)
Attn:* As directed by Ben Headington
Address:* 6625 Selnick Drive, Suite A
City:* Elkridge State:* MD Zip:* 21075
Are there any tests with holding times? less than or equal to 48 hours? ☑ Yes ☐ No
*Standard Turnaround = 10

Notes

MS/MSD

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)

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

Cost Center: _____ Global ID: _____

	Date	Time		Date	Time
1. Relinquished By:	1-27-14	1530	1.Received By: Nicole	1/27/14	1530
2. Relinquished By: Nicole	1/27/14	1620	2.Received By:	1/27/14	1620
3. Relinquished By:	1/27/14	1910	3.Received By:	1/27/14	1910

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4100 Atlas Court Bakersfield, CA 93308 (661) 327-4911 FAX (661) 327-1918 www.bclabs.com

BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949
Chain of Custody and Cooler Receipt Form for 1401914 Page 2 of 4

Chain of Custody and Cooler Receipt Form for 1401914 Page 3 of 4

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 15 07/01/13 Page 1 Of 2

Submission #: 14-01914

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Federal Express ☐ UPS ☐ Hand Delivery BC Lab Field Service ☑ Other ☐ (Specify)_____	Ice Chest ☑ None ☐ Box ☐ Other ☐ (Specify)_____	YES ☐ NO ☐

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

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

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

COC Received ☑ YES ☐ NO

Emissivity: 0.97 Container: Voa Thermometer ID: 207 Date/Time 1.27.14 1910

Temperature: (A) 1.6 °C / (C) 1.4 °C Analyst Init SS

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	B	B	B	B	B	B	B	B	B	B
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS		C	C	C	C	C	C			C
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A									
40ml VOA VIAL		A	A	A	A	A	A	A	A	A
QT EPA 413.1, 413.2, 418.1										
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										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____

Sample Numbering Completed By: _____ Date/Time: 1/27/14 1930

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Chain of Custody and Cooler Receipt Form for 1401914 Page 4 of 4

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 15 07/01/13 Page 2 Of 2

Submission #: 14-01914

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Federal Express ☐ UPS ☐ Hand Delivery	Ice Chest ☑ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____	Other ☐ (Specify)_____	

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ (Intact? Yes ☐ No ☐) Containers ☐ (Intact? Yes ☐ No ☐) None ☑ Comments:

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

COC Received ☑ YES ☐ NO

Emissivity: 0.97 Container: Voa Thermometer ID: 207 Date/Time 1-27-14 1910

Temperature: (A) 1.6 °C / (C) 1.4 °C Analyst Init AS

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	B	B								
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS	C	C								
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A (3)	A (6)	( )	( )	( )	( )	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1										
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										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____

Sample Numbering Completed By: _____ Date/Time: 1/27/14 1930

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1401914-01	**COC Number:**	---	**Receive Date:**	01/27/2014 19:10
	Project Number:	JPL-GW	**Sampling Date:**	01/27/2014 07:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	TB-1-1/27/14	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): TB-1-1/27/14	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1401914-02	**COC Number:**	---	**Receive Date:**	01/27/2014 19:10
	Project Number:	JPL-GW	**Sampling Date:**	01/27/2014 08:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	SB-1-1/27/14	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): SB-1-1/27/14	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1401914-03	**COC Number:**	---	**Receive Date:**	01/27/2014 19:10
	Project Number:	JPL-GW	**Sampling Date:**	01/27/2014 08:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	EB-1-1/27/14	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): EB-1-1/27/14	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1401914-04	**COC Number:**	---	**Receive Date:**	01/27/2014 19:10
	Project Number:	JPL-GW	**Sampling Date:**	01/27/2014 09:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-4-3	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-4-3	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1401914-05	**COC Number:**	---	**Receive Date:**	01/27/2014 19:10
	Project Number:	JPL-GW	**Sampling Date:**	01/27/2014 09:10
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	Dup-1-1Q14	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): Dup-1-1Q14	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1401914-06	**COC Number:**	---	**Receive Date:**	01/27/2014 19:10
	Project Number:	JPL-GW	**Sampling Date:**	01/27/2014 10:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-4-2	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-4-2	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1401914-07	**COC Number:**	---	**Receive Date:**	01/27/2014 19:10
	Project Number:	JPL-GW	**Sampling Date:**	01/27/2014 10:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-4-1	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-4-1	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1401914-08	**COC Number:**	---	**Receive Date:**	01/27/2014 19:10
	Project Number:	JPL-GW	**Sampling Date:**	01/27/2014 11:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-14-5	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-14-5	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1401914-09	**COC Number:**	---	**Receive Date:**	01/27/2014 19:10
	Project Number:	JPL-GW	**Sampling Date:**	01/27/2014 12:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-14-4	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-14-4	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1401914-10	**COC Number:**	---	**Receive Date:**	01/27/2014 19:10
	Project Number:	JPL-GW	**Sampling Date:**	01/27/2014 12:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-14-3	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-14-3	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1401914-11	**COC Number:**	---	**Receive Date:**	01/27/2014 19:10
	Project Number:	JPL-GW	**Sampling Date:**	01/27/2014 13:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-14-2	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-14-2	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1401914-12	**COC Number:**	---	**Receive Date:**	01/27/2014 19:10
	Project Number:	JPL-GW	**Sampling Date:**	01/27/2014 13:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-14-1	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-14-1	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1401914-01 | **Client Sample Name:** JPL-GW, TB-1-1/27/14, 1/27/2014 7:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1401914-01 | **Client Sample Name:** JPL-GW, TB-1-1/27/14, 1/27/2014 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	**7.5**	**ug/L**	**0.50**	**0.48**	**EPA-524.2**	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1401914-01 | **Client Sample Name:** JPL-GW, TB-1-1/27/14, 1/27/2014 7:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 11:30	MGC	MS-V5	1	BXB0134

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1401914-01 | **Client Sample Name:** JPL-GW, TB-1-1/27/14, 1/27/2014 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
1	EPA-524.2	02/06/14	02/06/14 11:30	MGC	MS-V5	1	BXB0134

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1401914-02 | **Client Sample Name:** JPL-GW, SB-1-1/27/14, 1/27/2014 8:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1401914-02 | **Client Sample Name:** JPL-GW, SB-1-1/27/14, 1/27/2014 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	**0.15**	**ug/L**	**0.50**	**0.093**	**EPA-524.2**	ND	**J**	1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1401914-02 | **Client Sample Name:** JPL-GW, SB-1-1/27/14, 1/27/2014 8:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	98.9	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	89.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 11:53	MGC	MS-V5	1	BXB0134

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1401914-02 | **Client Sample Name:** JPL-GW, SB-1-1/27/14, 1/27/2014 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
1	EPA-524.2	02/06/14	02/06/14 11:53	MGC	MS-V5	1	BXB0134

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1401914-02 | **Client Sample Name:** JPL-GW, SB-1-1/27/14, 1/27/2014 8:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/06/14	02/07/14 04:56	LD1	IC6	1	BXB0493

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1401914-02 | **Client Sample Name:** JPL-GW, SB-1-1/27/14, 1/27/2014 8:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/27/14	01/27/14 21:06	TDC	KONE-1	1	BXA1902
2	EPA-200.8	01/29/14	01/31/14 11:22	SRM	PE-EL2	1	BXA1850

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3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1401914-03 | **Client Sample Name:** JPL-GW, EB-1-1/27/14, 1/27/2014 8:15:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1401914-03 | **Client Sample Name:** JPL-GW, EB-1-1/27/14, 1/27/2014 8:15:00AM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	**0.12**	**ug/L**	**0.50**	**0.093**	**EPA-524.2**	ND	**J**	1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1401914-03 | **Client Sample Name:** JPL-GW, EB-1-1/27/14, 1/27/2014 8:15:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	89.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 12:15	MGC	MS-V5	1	BXB0134

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Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1401914-03 | **Client Sample Name:** JPL-GW, EB-1-1/27/14, 1/27/2014 8:15:00AM, 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
1	EPA-524.2	02/06/14	02/06/14 12:15	MGC	MS-V5	1	BXB0134

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1401914-03 | **Client Sample Name:** JPL-GW, EB-1-1/27/14, 1/27/2014 8:15:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/06/14	02/07/14 05:51	LD1	IC6	1	BXB0493

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1401914-03 | **Client Sample Name:** JPL-GW, EB-1-1/27/14, 1/27/2014 8:15:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/27/14	01/27/14 21:06	TDC	KONE-1	1	BXA1902
2	EPA-200.8	01/29/14	01/31/14 11:25	SRM	PE-EL2	1	BXA1850

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Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1401914-04 | **Client Sample Name:** JPL-GW, MW-4-3, 1/27/2014 9:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1401914-04 | **Client Sample Name:** JPL-GW, MW-4-3, 1/27/2014 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1401914-04 | **Client Sample Name:** JPL-GW, MW-4-3, 1/27/2014 9:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	87.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 12:38	MGC	MS-V5	1	BXB0134

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1401914-04 | **Client Sample Name:** JPL-GW, MW-4-3, 1/27/2014 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 12:38	MGC	MS-V5	1	BXB0134

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Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1401914-04 | **Client Sample Name:** JPL-GW, MW-4-3, 1/27/2014 9:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**1.4**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/06/14	02/07/14 06:05	LD1	IC6	1	BXB0493

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Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1401914-04 | **Client Sample Name:** JPL-GW, MW-4-3, 1/27/2014 9:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**0.0011**	**mg/L**	**0.0020**	**0.00070**	**EPA-7196**	ND	**J**	1
Total Recoverable Chromium	**0.95**	**ug/L**	**3.0**	**0.50**	**EPA-200.8**	ND	**J**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/27/14	01/27/14 21:06	TDC	KONE-1	1	BXA1902
2	EPA-200.8	01/29/14	01/31/14 11:28	SRM	PE-EL2	1	BXA1850

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1401914-05 | **Client Sample Name:** JPL-GW, Dup-1-1Q14, 1/27/2014 9:10:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1401914-05 | **Client Sample Name:** JPL-GW, Dup-1-1Q14, 1/27/2014 9:10:00AM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1401914-05 | **Client Sample Name:** JPL-GW, Dup-1-1Q14, 1/27/2014 9:10:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	89.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 13:01	MGC	MS-V5	1	BXB0134

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Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1401914-05 | **Client Sample Name:** JPL-GW, Dup-1-1Q14, 1/27/2014 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 13:01	MGC	MS-V5	1	BXB0134

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Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1401914-05 | **Client Sample Name:** JPL-GW, Dup-1-1Q14, 1/27/2014 9:10:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**1.7**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/06/14	02/07/14 06:46	LD1	IC6	1	BXB0493

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1401914-05 | **Client Sample Name:** JPL-GW, Dup-1-1Q14, 1/27/2014 9:10:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**0.00087**	**mg/L**	**0.0020**	**0.00070**	**EPA-7196**	ND	**J**	1
Total Recoverable Chromium	**1.1**	**ug/L**	**3.0**	**0.50**	**EPA-200.8**	ND	**J**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/27/14	01/27/14 21:06	TDC	KONE-1	1	BXA1902
2	EPA-200.8	01/29/14	01/31/14 11:31	SRM	PE-EL2	1	BXA1850

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Tidewater Inc.
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Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1401914-06 | **Client Sample Name:** JPL-GW, MW-4-2, 1/27/2014 10:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	**0.70**	**ug/L**	**0.50**	**0.14**	**EPA-524.2**	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**1.2**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	**0.35**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	**0.25**	**ug/L**	**0.50**	**0.11**	**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	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1401914-06 | **Client Sample Name:** JPL-GW, MW-4-2, 1/27/2014 10:00:00AM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**0.67**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.98**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1401914-06 | **Client Sample Name:** JPL-GW, MW-4-2, 1/27/2014 10:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	99.8	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 13:23	MGC	MS-V5	1	BXB0134

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Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1401914-06 | **Client Sample Name:** JPL-GW, MW-4-2, 1/27/2014 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 13:23	MGC	MS-V5	1	BXB0134

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Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1401914-06 | **Client Sample Name:** JPL-GW, MW-4-2, 1/27/2014 10:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**100**	**ug/L**	**40**	**4.5**	**EPA-314.0**	ND	**A01**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/06/14	02/07/14 16:33	OLH	IC6	10	BXB0493

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Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1401914-06 | **Client Sample Name:** JPL-GW, MW-4-2, 1/27/2014 10:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**0.00087**	**mg/L**	**0.0020**	**0.00070**	**EPA-7196**	ND	**J**	1
Total Recoverable Chromium	**2.4**	**ug/L**	**3.0**	**0.50**	**EPA-200.8**	ND	**J**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/27/14	01/27/14 21:06	TDC	KONE-1	1	BXA1902
2	EPA-200.8	01/29/14	01/31/14 11:34	SRM	PE-EL2	1	BXA1850

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Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1401914-07 | **Client Sample Name:** JPL-GW, MW-4-1, 1/27/2014 10:40:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1401914-07 | **Client Sample Name:** JPL-GW, MW-4-1, 1/27/2014 10:40:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1401914-07 | **Client Sample Name:** JPL-GW, MW-4-1, 1/27/2014 10:40:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	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)	93.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 09:15	MGC	MS-V5	1	BXB0134

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1401914-07 | **Client Sample Name:** JPL-GW, MW-4-1, 1/27/2014 10:40:00AM, Blaine Tech

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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 09:15	MGC	MS-V5	1	BXB0134

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1401914-07 | **Client Sample Name:** JPL-GW, MW-4-1, 1/27/2014 10:40:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/06/14	02/07/14 07:14	LD1	IC6	1	BXB0493

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Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1401914-07 | **Client Sample Name:** JPL-GW, MW-4-1, 1/27/2014 10:40:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/27/14	01/27/14 21:10	TDC	KONE-1	1	BXA1902
2	EPA-200.8	01/29/14	01/31/14 10:24	SRM	PE-EL2	1	BXA1850

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Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1401914-08 | **Client Sample Name:** JPL-GW, MW-14-5, 1/27/2014 11:50:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.28**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND	**J**	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1401914-08 | **Client Sample Name:** JPL-GW, MW-14-5, 1/27/2014 11:50:00AM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1401914-08 | **Client Sample Name:** JPL-GW, MW-14-5, 1/27/2014 11:50:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	100	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 13:46	MGC	MS-V5	1	BXB0134

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Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1401914-08 | **Client Sample Name:** JPL-GW, MW-14-5, 1/27/2014 11:50:00AM, 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 13:46	MGC	MS-V5	1	BXB0134

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Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1401914-08 | **Client Sample Name:** JPL-GW, MW-14-5, 1/27/2014 11:50:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/06/14	02/07/14 07:28	LD1	IC6	1	BXB0493

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Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1401914-09 | **Client Sample Name:** JPL-GW, MW-14-4, 1/27/2014 12:20:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.33**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND	**J**	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	**0.13**	**ug/L**	**0.50**	**0.072**	**EPA-524.2**	ND	**J**	1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	**0.070**	**ug/L**	**0.50**	**0.062**	**EPA-524.2**	ND	**J**	1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	**0.17**	**ug/L**	**0.50**	**0.11**	**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	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	**0.20**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1401914-09 | **Client Sample Name:** JPL-GW, MW-14-4, 1/27/2014 12:20:00PM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**0.38**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.42**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1401914-09 | **Client Sample Name:** JPL-GW, MW-14-4, 1/27/2014 12:20:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	89.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 14:08	MGC	MS-V5	1	BXB0134

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Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1401914-09 | **Client Sample Name:** JPL-GW, MW-14-4, 1/27/2014 12:20:00PM, 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 14:08	MGC	MS-V5	1	BXB0134

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Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1401914-09 | **Client Sample Name:** JPL-GW, MW-14-4, 1/27/2014 12:20:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**4.0**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/06/14	02/07/14 07:42	LD1	IC6	1	BXB0493

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Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1401914-10 | **Client Sample Name:** JPL-GW, MW-14-3, 1/27/2014 12:50:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.55**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	**0.28**	**ug/L**	**0.50**	**0.11**	**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	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	**0.20**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1401914-10 | **Client Sample Name:** JPL-GW, MW-14-3, 1/27/2014 12:50:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**0.54**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**2.0**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1401914-10 | **Client Sample Name:** JPL-GW, MW-14-3, 1/27/2014 12:50:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	99.7	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	89.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 14:31	MGC	MS-V5	1	BXB0134

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Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1401914-10 | **Client Sample Name:** JPL-GW, MW-14-3, 1/27/2014 12:50:00PM, 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 14:31	MGC	MS-V5	1	BXB0134

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Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1401914-10 | **Client Sample Name:** JPL-GW, MW-14-3, 1/27/2014 12:50:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**4.7**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/06/14	02/07/14 07:56	LD1	IC6	1	BXB0493

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Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1401914-10 | **Client Sample Name:** JPL-GW, MW-14-3, 1/27/2014 12:50:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**0.0012**	**mg/L**	**0.0020**	**0.00070**	**EPA-7196**	ND	**J**	1
Total Recoverable Chromium	**0.82**	**ug/L**	**3.0**	**0.50**	**EPA-200.8**	ND	**J**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/27/14	01/27/14 21:10	TDC	KONE-1	1	BXA1902
2	EPA-200.8	01/29/14	01/29/14 19:22	SRM	PE-EL2	1	BXA1851

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Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1401914-11 | **Client Sample Name:** JPL-GW, MW-14-2, 1/27/2014 1:20:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.52**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	**0.15**	**ug/L**	**0.50**	**0.11**	**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	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	**0.26**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1401914-11 | **Client Sample Name:** JPL-GW, MW-14-2, 1/27/2014 1:20:00PM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	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**	**0.13**	**EPA-524.2**	ND	**J**	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**3.7**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1401914-11 | **Client Sample Name:** JPL-GW, MW-14-2, 1/27/2014 1:20:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	94.2	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	89.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 14:54	MGC	MS-V5	1	BXB0134

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Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1401914-11 | **Client Sample Name:** JPL-GW, MW-14-2, 1/27/2014 1:20:00PM, 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 14:54	MGC	MS-V5	1	BXB0134

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Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1401914-11 | **Client Sample Name:** JPL-GW, MW-14-2, 1/27/2014 1:20:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**3.4**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/06/14	02/07/14 08:09	LD1	IC6	1	BXB0493

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Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1401914-11 | **Client Sample Name:** JPL-GW, MW-14-2, 1/27/2014 1:20:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/27/14	01/27/14 21:10	TDC	KONE-1	1	BXA1902
2	EPA-200.8	01/29/14	01/29/14 19:26	SRM	PE-EL2	1	BXA1851

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Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1401914-12 | **Client Sample Name:** JPL-GW, MW-14-1, 1/27/2014 1:50:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.80**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	**0.14**	**ug/L**	**0.50**	**0.11**	**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	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	**0.15**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1401914-12 | **Client Sample Name:** JPL-GW, MW-14-1, 1/27/2014 1:50:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	**0.29**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND	**J**	1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	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**	**0.13**	**EPA-524.2**	ND	**J**	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**3.4**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1401914-12 | **Client Sample Name:** JPL-GW, MW-14-1, 1/27/2014 1:50:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	88.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 15:39	MGC	MS-V5	1	BXB0135

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Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1401914-12 | **Client Sample Name:** JPL-GW, MW-14-1, 1/27/2014 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 15:39	MGC	MS-V5	1	BXB0135

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Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1401914-12 | **Client Sample Name:** JPL-GW, MW-14-1, 1/27/2014 1:50:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**3.4**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/06/14	02/07/14 08:51	LD1	IC6	1	BXB0494

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1401914-12 | **Client Sample Name:** JPL-GW, MW-14-1, 1/27/2014 1:50:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**0.0011**	**mg/L**	**0.0020**	**0.00070**	**EPA-7196**	ND	**J**	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/27/14	01/27/14 23:34	TDC	KONE-1	1	BXA1902
2	EPA-200.8	01/29/14	01/29/14 18:44	SRM	PE-EL2	1	BXA1851

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0134						
Benzene	BXB0134-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXB0134-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXB0134-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXB0134-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXB0134-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXB0134-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXB0134-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXB0134-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXB0134-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXB0134-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXB0134-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXB0134-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXB0134-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXB0134-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXB0134-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXB0134-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BXB0134-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXB0134-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXB0134-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXB0134-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXB0134-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXB0134-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXB0134-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXB0134-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXB0134-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXB0134-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXB0134-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXB0134-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXB0134-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXB0134-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXB0134-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXB0134-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXB0134-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXB0134-BLK1	ND	ug/L	0.50	0.14	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0134						
trans-1,3-Dichloropropene	BXB0134-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXB0134-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXB0134-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXB0134-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXB0134-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXB0134-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXB0134-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXB0134-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXB0134-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXB0134-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXB0134-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BXB0134-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BXB0134-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXB0134-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXB0134-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXB0134-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BXB0134-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXB0134-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXB0134-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXB0134-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXB0134-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXB0134-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXB0134-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXB0134-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXB0134-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXB0134-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXB0134-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXB0134-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXB0134-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXB0134-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXB0134-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXB0134-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXB0134-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXB0134-BLK1	ND	ug/L	4.0	0.97	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0134						
Ethyl t-butyl ether	BXB0134-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXB0134-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXB0134-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXB0134-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXB0134-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXB0134-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXB0134-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXB0134-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXB0134-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXB0134-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXB0134-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXB0134-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXB0134-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	**BXB0134-BLK1**	**103**	%	**75 - 125 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**BXB0134-BLK1**	**99.8**	%	**80 - 120 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**BXB0134-BLK1**	**89.7**	%	**80 - 120 (LCL - UCL)**		
QC Batch ID: BXB0135						
Benzene	BXB0135-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXB0135-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXB0135-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXB0135-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXB0135-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXB0135-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXB0135-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXB0135-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXB0135-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXB0135-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXB0135-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXB0135-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXB0135-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXB0135-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXB0135-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXB0135-BLK1	ND	ug/L	0.50	0.15	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0135						
Dibromochloromethane	BXB0135-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXB0135-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXB0135-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXB0135-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXB0135-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXB0135-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXB0135-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXB0135-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXB0135-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXB0135-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXB0135-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXB0135-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXB0135-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXB0135-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXB0135-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXB0135-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXB0135-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXB0135-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	BXB0135-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXB0135-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXB0135-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXB0135-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXB0135-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXB0135-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXB0135-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXB0135-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXB0135-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXB0135-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXB0135-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BXB0135-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BXB0135-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXB0135-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXB0135-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXB0135-BLK1	ND	ug/L	0.50	0.19	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0135						
1,1,1-Trichloroethane	BXB0135-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXB0135-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXB0135-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXB0135-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXB0135-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXB0135-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXB0135-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXB0135-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXB0135-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXB0135-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXB0135-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXB0135-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXB0135-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXB0135-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXB0135-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXB0135-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXB0135-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXB0135-BLK1	ND	ug/L	4.0	0.97	
Ethyl t-butyl ether	BXB0135-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXB0135-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXB0135-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXB0135-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXB0135-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXB0135-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXB0135-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXB0135-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXB0135-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXB0135-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXB0135-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXB0135-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXB0135-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	**BXB0135-BLK1**	**100**	%	**75 - 125 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**BXB0135-BLK1**	**97.5**	%	**80 - 120 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**BXB0135-BLK1**	**87.7**	%	**80 - 120 (LCL - UCL)**		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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 Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXB0134										
Benzene	BXB0134-BS1	LCS	25.920	25.000	ug/L	104		70 - 130		
Bromodichloromethane	BXB0134-BS1	LCS	27.030	25.000	ug/L	108		70 - 130		
Chlorobenzene	BXB0134-BS1	LCS	27.060	25.000	ug/L	108		70 - 130		
Chloroethane	BXB0134-BS1	LCS	23.520	25.000	ug/L	94.1		70 - 130		
1,4-Dichlorobenzene	BXB0134-BS1	LCS	28.250	25.000	ug/L	113		70 - 130		
1,1-Dichloroethane	BXB0134-BS1	LCS	26.760	25.000	ug/L	107		70 - 130		
1,1-Dichloroethene	BXB0134-BS1	LCS	28.430	25.000	ug/L	114		70 - 130		
Toluene	BXB0134-BS1	LCS	25.440	25.000	ug/L	102		70 - 130		
Trichloroethene	BXB0134-BS1	LCS	26.800	25.000	ug/L	107		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXB0134-BS1	LCS	9.9500	10.000	ug/L	99.5		75 - 125		
Toluene-d8 (Surrogate)	BXB0134-BS1	LCS	9.4000	10.000	ug/L	94.0		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXB0134-BS1	LCS	10.070	10.000	ug/L	101		80 - 120		
QC Batch ID: BXB0135										
Benzene	BXB0135-BS1	LCS	23.340	25.000	ug/L	93.4		70 - 130		
Bromodichloromethane	BXB0135-BS1	LCS	25.700	25.000	ug/L	103		70 - 130		
Chlorobenzene	BXB0135-BS1	LCS	25.140	25.000	ug/L	101		70 - 130		
Chloroethane	BXB0135-BS1	LCS	24.810	25.000	ug/L	99.2		70 - 130		
1,4-Dichlorobenzene	BXB0135-BS1	LCS	26.520	25.000	ug/L	106		70 - 130		
1,1-Dichloroethane	BXB0135-BS1	LCS	23.660	25.000	ug/L	94.6		70 - 130		
1,1-Dichloroethene	BXB0135-BS1	LCS	25.230	25.000	ug/L	101		70 - 130		
Toluene	BXB0135-BS1	LCS	23.800	25.000	ug/L	95.2		70 - 130		
Trichloroethene	BXB0135-BS1	LCS	25.000	25.000	ug/L	100		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXB0135-BS1	LCS	9.8500	10.000	ug/L	98.5		75 - 125		
Toluene-d8 (Surrogate)	BXB0135-BS1	LCS	9.6000	10.000	ug/L	96.0		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXB0135-BS1	LCS	10.510	10.000	ug/L	105		80 - 120		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXB0134	Used client sample: Y - Description: MW-4-1, 01/27/2014 10:40										
Benzene	MS	1401914-07	ND	27.130	25.000	ug/L		109		70 - 130	
	MSD	1401914-07	ND	24.380	25.000	ug/L	10.7	97.5	20	70 - 130	
Bromodichloromethane	MS	1401914-07	ND	28.230	25.000	ug/L		113		70 - 130	
	MSD	1401914-07	ND	26.560	25.000	ug/L	6.1	106	20	70 - 130	
Chlorobenzene	MS	1401914-07	ND	27.520	25.000	ug/L		110		70 - 130	
	MSD	1401914-07	ND	25.440	25.000	ug/L	7.9	102	20	70 - 130	
Chloroethane	MS	1401914-07	ND	24.590	25.000	ug/L		98.4		70 - 130	
	MSD	1401914-07	ND	22.360	25.000	ug/L	9.5	89.4	20	70 - 130	
1,4-Dichlorobenzene	MS	1401914-07	ND	30.230	25.000	ug/L		121		70 - 130	
	MSD	1401914-07	ND	28.440	25.000	ug/L	6.1	114	20	70 - 130	
1,1-Dichloroethane	MS	1401914-07	ND	27.840	25.000	ug/L		111		70 - 130	
	MSD	1401914-07	ND	25.090	25.000	ug/L	10.4	100	20	70 - 130	
1,1-Dichloroethene	MS	1401914-07	ND	29.510	25.000	ug/L		118		70 - 130	
	MSD	1401914-07	ND	26.250	25.000	ug/L	11.7	105	20	70 - 130	
Toluene	MS	1401914-07	ND	26.340	25.000	ug/L		105		70 - 130	
	MSD	1401914-07	ND	24.950	25.000	ug/L	5.4	99.8	20	70 - 130	
Trichloroethene	MS	1401914-07	ND	27.040	25.000	ug/L		108		70 - 130	
	MSD	1401914-07	ND	25.750	25.000	ug/L	4.9	103	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1401914-07	ND	10.720	10.000	ug/L		107		75 - 125	
	MSD	1401914-07	ND	10.190	10.000	ug/L	5.1	102		75 - 125	
Toluene-d8 (Surrogate)	MS	1401914-07	ND	9.6300	10.000	ug/L		96.3		80 - 120	
	MSD	1401914-07	ND	9.7900	10.000	ug/L	1.6	97.9		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1401914-07	ND	10.230	10.000	ug/L		102		80 - 120	
	MSD	1401914-07	ND	10.450	10.000	ug/L	2.1	104		80 - 120	
QC Batch ID: BXB0135	Used client sample: Y - Description: MW-14-1, 01/27/2014 13:50										
Benzene	MS	1401914-12	ND	27.250	25.000	ug/L		109		70 - 130	
	MSD	1401914-12	ND	25.550	25.000	ug/L	6.4	102	20	70 - 130	
Bromodichloromethane	MS	1401914-12	ND	29.310	25.000	ug/L		117		70 - 130	
	MSD	1401914-12	ND	28.130	25.000	ug/L	4.1	113	20	70 - 130	
Chlorobenzene	MS	1401914-12	ND	28.340	25.000	ug/L		113		70 - 130	
	MSD	1401914-12	ND	26.730	25.000	ug/L	5.8	107	20	70 - 130	
Chloroethane	MS	1401914-12	ND	23.940	25.000	ug/L		95.8		70 - 130	
	MSD	1401914-12	ND	27.560	25.000	ug/L	14.1	110	20	70 - 130	
1,4-Dichlorobenzene	MS	1401914-12	ND	30.470	25.000	ug/L		122		70 - 130	
	MSD	1401914-12	ND	29.410	25.000	ug/L	3.5	118	20	70 - 130	
1,1-Dichloroethane	MS	1401914-12	0.14000	27.760	25.000	ug/L		110		70 - 130	
	MSD	1401914-12	0.14000	26.260	25.000	ug/L	5.6	104	20	70 - 130	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXB0135	Used client sample: Y - Description: MW-14-1, 01/27/2014 13:50										
1,1-Dichloroethene	MS	1401914-12	ND	29.590	25.000	ug/L		118		70 - 130	
	MSD	1401914-12	ND	27.590	25.000	ug/L	7.0	110	20	70 - 130	
Toluene	MS	1401914-12	ND	27.830	25.000	ug/L		111		70 - 130	
	MSD	1401914-12	ND	26.180	25.000	ug/L	6.1	105	20	70 - 130	
Trichloroethene	MS	1401914-12	3.3900	29.670	25.000	ug/L		105		70 - 130	
	MSD	1401914-12	3.3900	28.490	25.000	ug/L	4.1	100	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1401914-12	ND	10.710	10.000	ug/L		107		75 - 125	
	MSD	1401914-12	ND	10.020	10.000	ug/L	6.7	100		75 - 125	
Toluene-d8 (Surrogate)	MS	1401914-12	ND	9.9700	10.000	ug/L		99.7		80 - 120	
	MSD	1401914-12	ND	9.8300	10.000	ug/L	1.4	98.3		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1401914-12	ND	10.600	10.000	ug/L		106		80 - 120	
	MSD	1401914-12	ND	10.240	10.000	ug/L	3.5	102		80 - 120	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0134						
Chloroacetonitrile	BXB0134-BLK1	0	ug/L			
1-Chlorobutane	BXB0134-BLK1	0	ug/L			
1,1-Dichloropropanone	BXB0134-BLK1	0	ug/L			
Methyl acrylate	BXB0134-BLK1	0	ug/L			
Nitrobenzene	BXB0134-BLK1	0	ug/L			
2-Nitropropane	BXB0134-BLK1	0	ug/L			
QC Batch ID: BXB0135						
Chloroacetonitrile	BXB0135-BLK1	0	ug/L			
1-Chlorobutane	BXB0135-BLK1	0	ug/L			
1,1-Dichloropropanone	BXB0135-BLK1	0	ug/L			
Methyl acrylate	BXB0135-BLK1	0	ug/L			
Nitrobenzene	BXB0135-BLK1	0	ug/L			
2-Nitropropane	BXB0135-BLK1	0	ug/L			

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0493						
Perchlorate	BXB0493-BLK1	ND	ug/L	4.0	0.45	
QC Batch ID: BXB0494						
Perchlorate	BXB0494-BLK1	ND	ug/L	4.0	0.45	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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 Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXB0493										
Perchlorate	BXB0493-BS1	LCS	10.686	10.000	ug/L	107		85 - 115		
QC Batch ID: BXB0494										
Perchlorate	BXB0494-BS1	LCS	8.9566	10.000	ug/L	89.6		85 - 115		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXB0493	Used client sample: Y - Description: SB-1-1/27/14, 01/27/2014 08:00										
Perchlorate	DUP	1401914-02	ND	ND		ug/L			15		
	MS	1401914-02	ND	9.3532	10.101	ug/L		92.6		80 - 120	
	MSD	1401914-02	ND	10.496	10.101	ug/L	11.5	104	15	80 - 120	
QC Batch ID: BXB0494	Used client sample: Y - Description: MW-14-1, 01/27/2014 13:50										
Perchlorate	DUP	1401914-12	3.4122	3.6679		ug/L	7.2		15		J
	MS	1401914-12	3.4122	14.035	10.101	ug/L		105		80 - 120	
	MSD	1401914-12	3.4122	12.819	10.101	ug/L	9.1	93.1	15	80 - 120	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXA1850						
Total Recoverable Chromium	BXA1850-BLK1	ND	ug/L	3.0	0.50	
QC Batch ID: BXA1851						
Total Recoverable Chromium	BXA1851-BLK1	ND	ug/L	3.0	0.50	
QC Batch ID: BXA1902						
Hexavalent Chromium	BXA1902-BLK1	ND	mg/L	0.0020	0.00070	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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 Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXA1850										
Total Recoverable Chromium	BXA1850-BS1	LCS	41.036	40.000	ug/L	103		85 - 115		
QC Batch ID: BXA1851										
Total Recoverable Chromium	BXA1851-BS1	LCS	37.028	40.000	ug/L	92.6		85 - 115		
QC Batch ID: BXA1902										
Hexavalent Chromium	BXA1902-BS1	LCS	0.047739	0.050000	mg/L	95.5		85 - 115		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXA1850	Used client sample: Y - Description: MW-4-1, 01/27/2014 10:40										
Total Recoverable Chromium	DUP	1401914-07	ND	ND		ug/L			20		
	MS	1401914-07	ND	37.954	40.000	ug/L		94.9		70 - 130	
	MSD	1401914-07	ND	38.160	40.000	ug/L	0.5	95.4	20	70 - 130	
QC Batch ID: BXA1851	Used client sample: Y - Description: MW-14-1, 01/27/2014 13:50										
Total Recoverable Chromium	DUP	1401914-12	ND	ND		ug/L			20		
	MS	1401914-12	ND	34.076	40.000	ug/L		85.2		70 - 130	
	MSD	1401914-12	ND	32.980	40.000	ug/L	3.3	82.4	20	70 - 130	
QC Batch ID: BXA1902	Used client sample: Y - Description: SB-1-1/27/14, 01/27/2014 08:00										
Hexavalent Chromium	DUP	1401914-02	ND	ND		mg/L			10		
	MS	1401914-02	ND	0.051278	0.052632	mg/L		97.4		85 - 115	
	MSD	1401914-02	ND	0.051109	0.052632	mg/L	0.3	97.1	10	85 - 115	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/11/2014 9:58
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.

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Date of Report: 02/12/2014

David Conner

Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Client Project:	1st Qtr.
BCL Project:	JPL- GW Monitoring Wells
BCL Work Order:	1402012
Invoice ID:	B166112

Enclosed are the results of analyses for samples received by the laboratory on 1/28/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton
Client Service Rep

Authorized Signature

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BC Laboratories, Inc.

Chain of Custody Form

*Required Fields

Page 1 of 1

Report To: Client:* Tidewater, Inc.
Attn:* David Conner
Street Address:* 3761 Attucks Drive
City:* Powell State:* OH Zip:* 43065
Phone#:* (614) 792 - 2897 Fax#: (614) 792 - 2897
Email Address: david.conner@tideh2o.net
Submission #: 14-02012

Project Description:* JPL-GW Monitoring
Project Code:* 1st Qtr.
Sampler (s):* Blaine Tech

Billing
Client:* Tidewater, Inc. (P.O. #1213-000-02)
Attn:* As directed by Ben Headington
Address:* 6625 Selnick Drive, Suite A
City:* Elkridge State:* MD Zip:* 21075
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*	VOCs EPA 524.2	Total Chromium 200.8 (ug/L)	Perchlorate 314.0	Hexavalent Cr6 -7196 (mg/L)	Chloride, Nitrate, Sulfate	Orthophosphate 365.1	Nitrite 353.2				Notes
-1	TB-2-1/28/14	1-28-14	0645	AQ	X										
-2	EB-2-1/28/14		0700		X	X	X	X							SHORT HOLDING TIME: Cr^{+6}, NO_2, NO_3, OP, SS; DO, Cl_2, BOD, MBAS, COT
-3	MW-11-4		0740		X		X								
-4	MW-11-3		0820		X	X	X	X							
-5	MW-11-2		0850		X	X	X	X							
-6	MW-11-1		0920		X	X	X	X	X	X	X				Level IV
-7	MW-12-5		1110		X		X								Level IV
-8	MW-12-4		1145		X		X								
-9	MW-12-3		1215		X	X	X	X							
-10	MW-12-2		1245		X	X	X	X							MS/MSD
-11	MW-12-1	↓	1350	↓	X	X	X	X							Level IV

Analysis Requested

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

CHK BY: KLO

DISTRIBUTION: MAIL STORAGE ☐ SUB-OUT ☐

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

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

Cost Center: _____ Global ID: _____

	Date	Time		Date	Time
1. Relinquished By:	1-28-14	1550	1.Received By: Nicole	1/28/14	1550
2. Relinquished By: Nicole	1/28/14	1600	2.Received By:	1-28-14	1600
3. Relinquished By:	1-28-14	1845	3.Received By:	1-28-14	1845

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

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Chain of Custody and Cooler Receipt Form for 1402012 Page 2 of 3

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 15 07/01/13 Page 1 Of 2

Submission #: 14-02012

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Federal Express ☐ UPS ☐ Hand Delivery BC Lab Field Service ☑ Other ☐ (Specify)_____	Ice Chest ☑ None ☐ Box ☐ Other ☐ (Specify)_____	YES ☐ NO ☐

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

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

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

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: PE Thermometer ID: 207 Date/Time 1/28/14 1605

Temperature: (A) 1.2 °C / (C) 1.2 °C Analyst Init M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL		B	B	B	B	B	B	B	B	B
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS		C		C	C	C			C	C
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A 1									
40ml VOA VIAL		A 3	A 3	A 3	A 3	A 3	A 3	A 3	A 3	A 6
QT EPA 413.1, 413.2, 418.1										
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										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____

Sample Numbering Completed By: M Date/Time: 1/28/14 1910

A = Actual / C = Corrected

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Chain of Custody and Cooler Receipt Form for 1402012 Page 3 of 3

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 15 07/01/13 Page 2 Of 2

Submission #: 14-02012

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery
BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ (Intact? Yes ☐ No ☐) Containers ☐ (Intact? Yes ☐ No ☐) None ☑ Comments:

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

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: PE Thermometer ID: 207 Date/Time 1/28/14 1445

Temperature: (A) 1.2 °C / (C) 1.2 °C Analyst Init M

SAMPLE CONTAINERS	SAMPLE NUMBERS 1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	B									
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS	C									
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A (3)	( )	( )	( )	( )	( )	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1										
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										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____
Sample Numbering Completed By: M Date/Time: 1/28/14 1910
A = Actual / C = Corrected

{S:\MyDOCS\WordPerfect\LAB DOCS\FORMS\SAMREC15}

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1402012-01	**COC Number:**	---	**Receive Date:**	01/28/2014 18:45
	Project Number:	JPL-GW	**Sampling Date:**	01/28/2014 06:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	TB-2-1/28/14	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Blank Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): TB-2-1/28/14	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402012-02	**COC Number:**	---	**Receive Date:**	01/28/2014 18:45
	Project Number:	JPL-GW	**Sampling Date:**	01/28/2014 07:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	EB-2-1/28/14	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): EB-2-1/28/14	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402012-03	**COC Number:**	---	**Receive Date:**	01/28/2014 18:45
	Project Number:	JPL-GW	**Sampling Date:**	01/28/2014 07:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-11-4	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-11-4	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1402012-04	**COC Number:**	---	**Receive Date:**	01/28/2014 18:45
	Project Number:	JPL-GW	**Sampling Date:**	01/28/2014 08:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-11-3	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-11-3	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402012-05	**COC Number:**	---	**Receive Date:**	01/28/2014 18:45
	Project Number:	JPL-GW	**Sampling Date:**	01/28/2014 08:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-11-2	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-11-2	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402012-06	**COC Number:**	---	**Receive Date:**	01/28/2014 18:45
	Project Number:	JPL-GW	**Sampling Date:**	01/28/2014 09:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-11-1	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-11-1	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1402012-07	**COC Number:**	---	**Receive Date:**	01/28/2014 18:45
	Project Number:	JPL-GW	**Sampling Date:**	01/28/2014 11:10
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-12-5	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-12-5	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402012-08	**COC Number:**	---	**Receive Date:**	01/28/2014 18:45
	Project Number:	JPL-GW	**Sampling Date:**	01/28/2014 11:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-12-4	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-12-4	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402012-09	**COC Number:**	---	**Receive Date:**	01/28/2014 18:45
	Project Number:	JPL-GW	**Sampling Date:**	01/28/2014 12:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-12-3	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-12-3	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1402012-10	**COC Number:**	---	**Receive Date:**	01/28/2014 18:45
	Project Number:	JPL-GW	**Sampling Date:**	01/28/2014 12:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-12-2	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-12-2	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402012-11	**COC Number:**	---	**Receive Date:**	01/28/2014 18:45
	Project Number:	JPL-GW	**Sampling Date:**	01/28/2014 13:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-12-1	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-12-1	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402012-01 | **Client Sample Name:** JPL-GW, TB-2-1/28/14, 1/28/2014 6:45:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402012-01 | **Client Sample Name:** JPL-GW, TB-2-1/28/14, 1/28/2014 6:45:00AM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	**14**	**ug/L**	**0.50**	**0.48**	**EPA-524.2**	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402012-01 | **Client Sample Name:** JPL-GW, TB-2-1/28/14, 1/28/2014 6:45:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/05/14	02/05/14 23:47	MGC	MS-V5	1	BXB0234

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402012-01 | **Client Sample Name:** JPL-GW, TB-2-1/28/14, 1/28/2014 6:45:00AM, 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
1	EPA-524.2	02/05/14	02/05/14 23:47	MGC	MS-V5	1	BXB0234

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402012-02 | **Client Sample Name:** JPL-GW, EB-2-1/28/14, 1/28/2014 7:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402012-02 | **Client Sample Name:** JPL-GW, EB-2-1/28/14, 1/28/2014 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	**0.18**	**ug/L**	**0.50**	**0.093**	**EPA-524.2**	ND	**J**	1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402012-02 | **Client Sample Name:** JPL-GW, EB-2-1/28/14, 1/28/2014 7:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	**0.16**	**ug/L**	**0.50**	**0.082**	**EPA-524.2**	ND	**J**	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)	91.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/05/14	02/06/14 00:09	MGC	MS-V5	1	BXB0234

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Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402012-02 | **Client Sample Name:** JPL-GW, EB-2-1/28/14, 1/28/2014 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
1	EPA-524.2	02/05/14	02/06/14 00:09	MGC	MS-V5	1	BXB0234

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Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402012-02 | **Client Sample Name:** JPL-GW, EB-2-1/28/14, 1/28/2014 7:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/07/14	02/09/14 13:12	LD1	IC6	1	BXB0501

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Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402012-02 | **Client Sample Name:** JPL-GW, EB-2-1/28/14, 1/28/2014 7:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/28/14	01/28/14 21:54	OLH	KONE-1	1	BXA1909
2	EPA-200.8	01/30/14	01/31/14 17:42	SRM	PE-EL2	1	BXA1938

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Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402012-03 | **Client Sample Name:** JPL-GW, MW-11-4, 1/28/2014 7:40:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402012-03 | **Client Sample Name:** JPL-GW, MW-11-4, 1/28/2014 7:40:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	**0.18**	**ug/L**	**0.50**	**0.068**	**EPA-524.2**	ND	**J**	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402012-03 | **Client Sample Name:** JPL-GW, MW-11-4, 1/28/2014 7:40:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/05/14	02/06/14 00:32	MGC	MS-V5	1	BXB0234

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402012-03 | **Client Sample Name:** JPL-GW, MW-11-4, 1/28/2014 7:40:00AM, Blaine Tech

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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/05/14	02/06/14 00:32	MGC	MS-V5	1	BXB0234

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Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402012-03 | **Client Sample Name:** JPL-GW, MW-11-4, 1/28/2014 7:40:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/07/14	02/09/14 13:25	LD1	IC6	1	BXB0501

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Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402012-04 | **Client Sample Name:** JPL-GW, MW-11-3, 1/28/2014 8:20:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.14**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND	**J**	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402012-04 | **Client Sample Name:** JPL-GW, MW-11-3, 1/28/2014 8:20:00AM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	**0.16**	**ug/L**	**0.50**	**0.068**	**EPA-524.2**	ND	**J**	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402012-04 | **Client Sample Name:** JPL-GW, MW-11-3, 1/28/2014 8:20:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	88.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/05/14	02/06/14 00:54	MGC	MS-V5	1	BXB0234

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Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402012-04 | **Client Sample Name:** JPL-GW, MW-11-3, 1/28/2014 8:20:00AM, 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
1	EPA-524.2	02/05/14	02/06/14 00:54	MGC	MS-V5	1	BXB0234

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Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402012-04 | **Client Sample Name:** JPL-GW, MW-11-3, 1/28/2014 8:20:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/07/14	02/09/14 12:16	LD1	IC6	1	BXB0501

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Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402012-04 | **Client Sample Name:** JPL-GW, MW-11-3, 1/28/2014 8:20:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/28/14	01/28/14 21:54	OLH	KONE-1	1	BXA1909
2	EPA-200.8	01/30/14	01/31/14 17:45	SRM	PE-EL2	1	BXA1938

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Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402012-05 | **Client Sample Name:** JPL-GW, MW-11-2, 1/28/2014 8:50:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402012-05 | **Client Sample Name:** JPL-GW, MW-11-2, 1/28/2014 8:50:00AM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402012-05 | **Client Sample Name:** JPL-GW, MW-11-2, 1/28/2014 8:50:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/05/14	02/06/14 01:17	MGC	MS-V5	1	BXB0234

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402012-05 | **Client Sample Name:** JPL-GW, MW-11-2, 1/28/2014 8:50:00AM, 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/05/14	02/06/14 01:17	MGC	MS-V5	1	BXB0234

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Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402012-05 | **Client Sample Name:** JPL-GW, MW-11-2, 1/28/2014 8:50:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/07/14	02/09/14 13:39	LD1	IC6	1	BXB0501

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Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402012-05 | **Client Sample Name:** JPL-GW, MW-11-2, 1/28/2014 8:50:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/28/14	01/28/14 21:54	OLH	KONE-1	1	BXA1909
2	EPA-200.8	01/30/14	01/31/14 17:49	SRM	PE-EL2	1	BXA1938

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Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402012-06 | **Client Sample Name:** JPL-GW, MW-11-1, 1/28/2014 9:20:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402012-06 | **Client Sample Name:** JPL-GW, MW-11-1, 1/28/2014 9:20:00AM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	**0.090**	**ug/L**	**0.50**	**0.068**	**EPA-524.2**	ND	**J**	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402012-06 | **Client Sample Name:** JPL-GW, MW-11-1, 1/28/2014 9:20:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	97.7	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/05/14	02/06/14 01:40	MGC	MS-V5	1	BXB0234

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Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402012-06 | **Client Sample Name:** JPL-GW, MW-11-1, 1/28/2014 9:20:00AM, 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
1	EPA-524.2	02/05/14	02/06/14 01:40	MGC	MS-V5	1	BXB0234

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Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402012-06 | **Client Sample Name:** JPL-GW, MW-11-1, 1/28/2014 9:20:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride	**12**	**mg/L**	**0.50**	**0.067**	**EPA-300.0**	0.17		1
Nitrate as N	**0.29**	**mg/L**	**0.10**	**0.025**	**EPA-300.0**	ND		1
Sulfate	**33**	**mg/L**	**1.0**	**0.18**	**EPA-300.0**	0.26		1
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		2
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		3
ortho-Phosphate as P	**0.017**	**mg/L**	**0.020**	**0.0040**	**EPA-365.1**	ND	**J**	4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	01/29/14	01/29/14 16:05	LD1	IC5	1	BXA1904
2	EPA-353.2	01/29/14	01/29/14 07:38	TDC	KONE-1	1	BXA1911
3	EPA-314.0	02/10/14	02/10/14 10:45	LD1	IC6	1	BXB0502
4	EPA-365.1	01/29/14	01/29/14 08:39	TDC	KONE-1	1	BXA1912

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402012-06 | **Client Sample Name:** JPL-GW, MW-11-1, 1/28/2014 9:20:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/28/14	01/28/14 21:54	OLH	KONE-1	1	BXA1909
2	EPA-200.8	01/30/14	01/31/14 17:52	SRM	PE-EL2	1	BXA1938

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402012-07 | **Client Sample Name:** JPL-GW, MW-12-5, 1/28/2014 11:10:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	**0.46**	**ug/L**	**0.50**	**0.18**	**EPA-524.2**	ND	**J**	1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.33**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND	**J**	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402012-07 | **Client Sample Name:** JPL-GW, MW-12-5, 1/28/2014 11:10:00AM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	**0.080**	**ug/L**	**0.50**	**0.068**	**EPA-524.2**	ND	**J**	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.15**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402012-07 | **Client Sample Name:** JPL-GW, MW-12-5, 1/28/2014 11:10:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	99.9	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/05/14	02/06/14 02:02	MGC	MS-V5	1	BXB0234

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Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402012-07 | **Client Sample Name:** JPL-GW, MW-12-5, 1/28/2014 11:10:00AM, 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/05/14	02/06/14 02:02	MGC	MS-V5	1	BXB0234

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Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402012-07 | **Client Sample Name:** JPL-GW, MW-12-5, 1/28/2014 11:10:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**2.5**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/10/14	02/10/14 10:59	LD1	IC6	1	BXB0502

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Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402012-08 | **Client Sample Name:** JPL-GW, MW-12-4, 1/28/2014 11:45:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	**0.85**	**ug/L**	**0.50**	**0.18**	**EPA-524.2**	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.67**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402012-08 | **Client Sample Name:** JPL-GW, MW-12-4, 1/28/2014 11:45:00AM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	**0.080**	**ug/L**	**0.50**	**0.068**	**EPA-524.2**	ND	**J**	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.35**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402012-08 | **Client Sample Name:** JPL-GW, MW-12-4, 1/28/2014 11:45:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	99.1	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/05/14	02/06/14 02:25	MGC	MS-V5	1	BXB0234

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402012-08 | **Client Sample Name:** JPL-GW, MW-12-4, 1/28/2014 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/05/14	02/06/14 02:25	MGC	MS-V5	1	BXB0234

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Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402012-08 | **Client Sample Name:** JPL-GW, MW-12-4, 1/28/2014 11:45:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**3.5**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/10/14	02/10/14 11:13	LD1	IC6	1	BXB0502

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Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402012-09 | **Client Sample Name:** JPL-GW, MW-12-3, 1/28/2014 12:15:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	**0.46**	**ug/L**	**0.50**	**0.18**	**EPA-524.2**	ND	**J**	1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.73**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402012-09 | **Client Sample Name:** JPL-GW, MW-12-3, 1/28/2014 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	**0.080**	**ug/L**	**0.50**	**0.068**	**EPA-524.2**	ND	**J**	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.090**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402012-09 | **Client Sample Name:** JPL-GW, MW-12-3, 1/28/2014 12:15:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/05/14	02/06/14 02:47	MGC	MS-V5	1	BXB0234

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Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402012-09 | **Client Sample Name:** JPL-GW, MW-12-3, 1/28/2014 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/05/14	02/06/14 02:47	MGC	MS-V5	1	BXB0234

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Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402012-09 | **Client Sample Name:** JPL-GW, MW-12-3, 1/28/2014 12:15:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**1.8**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/10/14	02/10/14 11:27	LD1	IC6	1	BXB0502

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Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402012-09 | **Client Sample Name:** JPL-GW, MW-12-3, 1/28/2014 12:15:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/28/14	01/28/14 21:54	OLH	KONE-1	1	BXA1909
2	EPA-200.8	01/30/14	01/31/14 17:55	SRM	PE-EL2	1	BXA1938

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Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402012-10 | **Client Sample Name:** JPL-GW, MW-12-2, 1/28/2014 12:45:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402012-10 | **Client Sample Name:** JPL-GW, MW-12-2, 1/28/2014 12:45:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402012-10 | **Client Sample Name:** JPL-GW, MW-12-2, 1/28/2014 12:45:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/05/14	02/05/14 21:31	MGC	MS-V5	1	BXB0234

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402012-10 | **Client Sample Name:** JPL-GW, MW-12-2, 1/28/2014 12:45:00PM, 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/05/14	02/05/14 21:31	MGC	MS-V5	1	BXB0234

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Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402012-10 | **Client Sample Name:** JPL-GW, MW-12-2, 1/28/2014 12:45:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**4.2**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/10/14	02/10/14 11:41	LD1	IC6	1	BXB0502

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Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402012-10 | **Client Sample Name:** JPL-GW, MW-12-2, 1/28/2014 12:45:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	**1.0**	**ug/L**	**3.0**	**0.50**	**EPA-200.8**	ND	**J**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/28/14	01/28/14 21:57	OLH	KONE-1	1	BXA1909
2	EPA-200.8	01/30/14	01/31/14 17:10	SRM	PE-EL2	1	BXA1938

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402012-11 | **Client Sample Name:** JPL-GW, MW-12-1, 1/28/2014 1:50:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402012-11 | **Client Sample Name:** JPL-GW, MW-12-1, 1/28/2014 1:50:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	**0.32**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402012-11 | **Client Sample Name:** JPL-GW, MW-12-1, 1/28/2014 1:50:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/05/14	02/06/14 03:10	MGC	MS-V5	1	BXB0234

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Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402012-11 | **Client Sample Name:** JPL-GW, MW-12-1, 1/28/2014 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/05/14	02/06/14 03:10	MGC	MS-V5	1	BXB0234

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Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402012-11 | **Client Sample Name:** JPL-GW, MW-12-1, 1/28/2014 1:50:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/10/14	02/10/14 11:55	LD1	IC6	1	BXB0502

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402012-11 | **Client Sample Name:** JPL-GW, MW-12-1, 1/28/2014 1:50:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/28/14	01/28/14 21:57	OLH	KONE-1	1	BXA1909
2	EPA-200.8	01/30/14	01/31/14 17:58	SRM	PE-EL2	1	BXA1938

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0234						
Benzene	BXB0234-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXB0234-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXB0234-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXB0234-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXB0234-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXB0234-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXB0234-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXB0234-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXB0234-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXB0234-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXB0234-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXB0234-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXB0234-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXB0234-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXB0234-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXB0234-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BXB0234-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXB0234-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXB0234-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXB0234-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXB0234-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXB0234-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXB0234-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXB0234-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXB0234-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXB0234-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXB0234-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXB0234-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXB0234-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXB0234-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXB0234-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXB0234-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXB0234-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXB0234-BLK1	ND	ug/L	0.50	0.14	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0234						
trans-1,3-Dichloropropene	BXB0234-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXB0234-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXB0234-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXB0234-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXB0234-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXB0234-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXB0234-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXB0234-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXB0234-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXB0234-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXB0234-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BXB0234-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BXB0234-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXB0234-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXB0234-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXB0234-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BXB0234-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXB0234-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXB0234-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXB0234-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXB0234-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXB0234-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXB0234-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXB0234-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXB0234-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXB0234-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXB0234-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXB0234-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXB0234-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXB0234-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXB0234-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXB0234-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXB0234-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXB0234-BLK1	ND	ug/L	4.0	0.97	

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Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0234						
Ethyl t-butyl ether	BXB0234-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXB0234-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXB0234-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXB0234-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXB0234-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXB0234-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXB0234-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXB0234-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXB0234-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXB0234-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXB0234-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXB0234-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXB0234-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	**BXB0234-BLK1**	**101**	%	**75 - 125 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**BXB0234-BLK1**	**101**	%	**80 - 120 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**BXB0234-BLK1**	**96.7**	%	**80 - 120 (LCL - UCL)**		

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Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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 Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXB0234										
Benzene	BXB0234-BS1	LCS	24.680	25.000	ug/L	98.7		70 - 130		
Bromodichloromethane	BXB0234-BS1	LCS	25.400	25.000	ug/L	102		70 - 130		
Chlorobenzene	BXB0234-BS1	LCS	25.110	25.000	ug/L	100		70 - 130		
Chloroethane	BXB0234-BS1	LCS	26.290	25.000	ug/L	105		70 - 130		
1,4-Dichlorobenzene	BXB0234-BS1	LCS	26.520	25.000	ug/L	106		70 - 130		
1,1-Dichloroethane	BXB0234-BS1	LCS	25.240	25.000	ug/L	101		70 - 130		
1,1-Dichloroethene	BXB0234-BS1	LCS	26.730	25.000	ug/L	107		70 - 130		
Toluene	BXB0234-BS1	LCS	23.020	25.000	ug/L	92.1		70 - 130		
Trichloroethene	BXB0234-BS1	LCS	26.440	25.000	ug/L	106		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXB0234-BS1	LCS	10.260	10.000	ug/L	103		75 - 125		
Toluene-d8 (Surrogate)	BXB0234-BS1	LCS	9.5100	10.000	ug/L	95.1		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXB0234-BS1	LCS	10.130	10.000	ug/L	101		80 - 120		

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Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXB0234	Used client sample: Y - Description: MW-12-2, 01/28/2014 12:45										
Benzene	MS	1402012-10	ND	25.150	25.000	ug/L		101		70 - 130	
	MSD	1402012-10	ND	23.680	25.000	ug/L	6.0	94.7	20	70 - 130	
Bromodichloromethane	MS	1402012-10	ND	26.440	25.000	ug/L		106		70 - 130	
	MSD	1402012-10	ND	26.170	25.000	ug/L	1.0	105	20	70 - 130	
Chlorobenzene	MS	1402012-10	ND	25.150	25.000	ug/L		101		70 - 130	
	MSD	1402012-10	ND	25.190	25.000	ug/L	0.2	101	20	70 - 130	
Chloroethane	MS	1402012-10	ND	27.260	25.000	ug/L		109		70 - 130	
	MSD	1402012-10	ND	25.090	25.000	ug/L	8.3	100	20	70 - 130	
1,4-Dichlorobenzene	MS	1402012-10	ND	26.640	25.000	ug/L		107		70 - 130	
	MSD	1402012-10	ND	26.800	25.000	ug/L	0.6	107	20	70 - 130	
1,1-Dichloroethane	MS	1402012-10	ND	25.380	25.000	ug/L		102		70 - 130	
	MSD	1402012-10	ND	23.680	25.000	ug/L	6.9	94.7	20	70 - 130	
1,1-Dichloroethene	MS	1402012-10	ND	26.840	25.000	ug/L		107		70 - 130	
	MSD	1402012-10	ND	25.610	25.000	ug/L	4.7	102	20	70 - 130	
Toluene	MS	1402012-10	ND	24.520	25.000	ug/L		98.1		70 - 130	
	MSD	1402012-10	ND	23.600	25.000	ug/L	3.8	94.4	20	70 - 130	
Trichloroethene	MS	1402012-10	ND	25.590	25.000	ug/L		102		70 - 130	
	MSD	1402012-10	ND	25.270	25.000	ug/L	1.3	101	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1402012-10	ND	10.360	10.000	ug/L		104		75 - 125	
	MSD	1402012-10	ND	9.9600	10.000	ug/L	3.9	99.6		75 - 125	
Toluene-d8 (Surrogate)	MS	1402012-10	ND	9.6300	10.000	ug/L		96.3		80 - 120	
	MSD	1402012-10	ND	9.8000	10.000	ug/L	1.7	98.0		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1402012-10	ND	10.060	10.000	ug/L		101		80 - 120	
	MSD	1402012-10	ND	10.370	10.000	ug/L	3.0	104		80 - 120	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0234						
Chloroacetonitrile	BXB0234-BLK1	0	ug/L			
1-Chlorobutane	BXB0234-BLK1	0	ug/L			
1,1-Dichloropropanone	BXB0234-BLK1	0	ug/L			
Methyl acrylate	BXB0234-BLK1	0	ug/L			
Nitrobenzene	BXB0234-BLK1	0	ug/L			
2-Nitropropane	BXB0234-BLK1	0	ug/L			

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXA1904						
Chloride	**BXA1904-BLK1**	**0.16800**	**mg/L**	**0.50**	**0.067**	**J**
Nitrate as N	BXA1904-BLK1	ND	mg/L	0.10	0.025	
Sulfate	**BXA1904-BLK1**	**0.26200**	**mg/L**	**1.0**	**0.18**	**J**
QC Batch ID: BXA1911						
Nitrite as N	BXA1911-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXA1912						
ortho-Phosphate as P	BXA1912-BLK1	ND	mg/L	0.020	0.0040	
QC Batch ID: BXB0501						
Perchlorate	BXB0501-BLK1	ND	ug/L	4.0	0.45	
QC Batch ID: BXB0502						
Perchlorate	BXB0502-BLK1	ND	ug/L	4.0	0.45	

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Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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 Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXA1904										
Chloride	BXA1904-BS1	LCS	50.441	50.000	mg/L	101		90 - 110		
Nitrate as N	BXA1904-BS1	LCS	4.9700	5.0000	mg/L	99.4		90 - 110		
Sulfate	BXA1904-BS1	LCS	100.05	100.00	mg/L	100		90 - 110		
QC Batch ID: BXA1911										
Nitrite as N	BXA1911-BS1	LCS	0.50389	0.50000	mg/L	101		90 - 110		
QC Batch ID: BXA1912										
ortho-Phosphate as P	BXA1912-BS1	LCS	0.19186	0.20000	mg/L	95.9		90 - 110		
QC Batch ID: BXB0501										
Perchlorate	BXB0501-BS1	LCS	9.6661	10.000	ug/L	96.7		85 - 115		
QC Batch ID: BXB0502										
Perchlorate	BXB0502-BS1	LCS	10.248	10.000	ug/L	102		85 - 115		

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Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXA1904	Used client sample: N										
Chloride	DUP	1401993-02	81.155	86.240		mg/L	6.1		10		
	MS	1401993-02	81.155	362.59	252.53	mg/L		111		80 - 120	
	MSD	1401993-02	81.155	362.94	252.53	mg/L	0.1	112	10	80 - 120	
Nitrate as N	DUP	1401993-02	ND	ND		mg/L			10		
	MS	1401993-02	ND	25.687	25.253	mg/L		102		80 - 120	
	MSD	1401993-02	ND	25.606	25.253	mg/L	0.3	101	10	80 - 120	
Sulfate	DUP	1401993-02	894.92	913.85		mg/L	2.1		10		
	MS	1401993-02	894.92	1428.6	505.05	mg/L		106		80 - 120	
	MSD	1401993-02	894.92	1428.6	505.05	mg/L	0.0	106	10	80 - 120	
QC Batch ID: BXA1911	Used client sample: Y - Description: MW-11-1, 01/28/2014 09:20										
Nitrite as N	DUP	1402012-06	ND	ND		mg/L			10		
	MS	1402012-06	ND	0.54393	0.52632	mg/L		103		90 - 110	
	MSD	1402012-06	ND	0.54534	0.52632	mg/L	0.3	104	10	90 - 110	
QC Batch ID: BXA1912	Used client sample: Y - Description: MW-11-1, 01/28/2014 09:20										
ortho-Phosphate as P	DUP	1402012-06	0.016906	0.017369		mg/L	2.7		10		J
	MS	1402012-06	0.016906	0.22828	0.21053	mg/L		100		90 - 110	
	MSD	1402012-06	0.016906	0.22926	0.21053	mg/L	0.4	101	10	90 - 110	
QC Batch ID: BXB0501	Used client sample: Y - Description: MW-11-3, 01/28/2014 08:20										
Perchlorate	DUP	1402012-04	ND	ND		ug/L			15		
	MS	1402012-04	ND	9.6142	10.101	ug/L		95.2		80 - 120	
	MSD	1402012-04	ND	8.7164	10.101	ug/L	9.8	86.3	15	80 - 120	
QC Batch ID: BXB0502	Used client sample: Y - Description: MW-12-2, 01/28/2014 12:45										
Perchlorate	DUP	1402012-10	4.2281	4.1165		ug/L	2.7		15		
	MS	1402012-10	4.2281	13.689	10.101	ug/L		93.7		80 - 120	
	MSD	1402012-10	4.2281	13.709	10.101	ug/L	0.1	93.9	15	80 - 120	

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Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXA1909						
Hexavalent Chromium	BXA1909-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BXA1938						
Total Recoverable Chromium	BXA1938-BLK1	ND	ug/L	3.0	0.50	

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Project Number: 1st Qtr.
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 Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXA1909										
Hexavalent Chromium	BXA1909-BS1	LCS	0.049464	0.050000	mg/L	98.9		85 - 115		
QC Batch ID: BXA1938										
Total Recoverable Chromium	BXA1938-BS1	LCS	40.516	40.000	ug/L	101		85 - 115		

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Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXA1909	Used client sample: Y - Description: EB-2-1/28/14, 01/28/2014 07:00										
Hexavalent Chromium	DUP	1402012-02	ND	ND		mg/L			10		
	MS	1402012-02	ND	0.051373	0.052632	mg/L		97.6		85 - 115	
	MSD	1402012-02	ND	0.051331	0.052632	mg/L	0.1	97.5	10	85 - 115	
QC Batch ID: BXA1938	Used client sample: Y - Description: MW-12-2, 01/28/2014 12:45										
Total Recoverable Chromium	DUP	1402012-10	1.0030	1.0810		ug/L	7.5		20		J
	MS	1402012-10	1.0030	36.465	40.000	ug/L		88.7		70 - 130	
	MSD	1402012-10	1.0030	36.786	40.000	ug/L	0.9	89.5	20	70 - 130	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/12/2014 13:47
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference

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Date of Report: 02/13/2014

David Conner

Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Client Project:	1st Qtr.
BCL Project:	JPL- GW Monitoring Wells
BCL Work Order:	1402099
Invoice ID:	B166212

Enclosed are the results of analyses for samples received by the laboratory on 1/29/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton
Client Service Rep

Authorized Signature

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BC Laboratories, Inc.

Chain of Custody Form

*Required Fields

Page 1 of 2

Report To: Client:* Tidewater, Inc.	Project Description:* JPL-GW Monitoring
Attn:* David Conner	
Street Address:* 3761 Attucks Drive	Project Code:* 1st Qtr.
City:* Powell State:* OH Zip:* 43065	
Phone#:* (614) 792 - 2897 Fax#: (614) 792 - 2897	Sampler (s):* Blaine Tech
Email Address: david.conner@tideh2o.net	
Submission #: 4-02099	

Billing

Client:* Tidewater, Inc. (P.O. #1213-000-02)
Attn:* As directed by Ben Headington
Address:* 6625 Selnick Drive, Suite A
City:* Elkridge State:* MD Zip:* 21075

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*	VOCs EPA 524.2	Total Chromium 200.8 (ug/L)	Perchlorate 314.0	Hexavalent Cr6 -7196 (mg/L)	Chloride, Nitrate, Sulfate	Orthophosphate 365.1	Nitrite 353.2
-1	TB-3-1/29/14	1-29-14	0700	AQ	X						
-2	EB-3-1/29/14		0730		X	X	X	X			
-3	MW-20-5		0800		X	X	X	X			
-4	MW-20-4		0840		X	X	X	X			
-5	MW-30-3		0920		X	X	X	X			
-6	MW-20-2		0950		X	X	X	X			
-7	MW-20-1		1030		X	X	X	X			
-8	DUPE-2-1Q14		1040		X	X	X	X			
-9	MW-3-4		1230		X	X	X	X			
-10	MW-3-3		1310		X	X	X	X			
-11	DUPE-3-1Q14		1320		X	X	X	X			

Notes

SHORT HOLDING TIME
Cr^{+6} NO_2 NO_3 OP SS
DO Cl_2 BOD MBAS COT

CHK BY DISTRIBUTION
SAS MAP MT JLH
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 QC (MS/MSD)
90% Level III and 10% Level IV data validation required; Level IV Notated on C of C
NOTE: ALL ANALYSIS REQUIRED TO HAVE CALIBRATION SUMMARIES (Inform QC)

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

Cost Center: _____ Global ID: _____

	Date	Time		Date	Time
1. Relinquished By:	1-29-14	1550	1. Received By: Nicole	1/29/14	1550
2. Relinquished By: Nicole	1/29/14	1620	2. Received By:	1/29/14	1620
3. Relinquished By:	1/29/14	1915	3. Received By:	1/29/14	1915

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

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Chain of Custody Form

BC Laboratories, Inc.

*Required Fields

Page 2 of 2

Report To: Client:* Tidewater, Inc.	Project Description:* JPL-GW Monitoring
Attn:* David Conner	
Street Address:* 3761 Attucks Drive	Project Code:* 1st Qtr.
City:* Powell State:* OH Zip:* 43065	
Phone#:* (614) 792 - 2897 Fax#: (614) 792 - 2897	Sampler (s):* Blaine Tech
Email Address: david.conner@tideh2o.net	
Submission #: 14-02099	

Billing

Client:* Tidewater, Inc. (P.O. #1213-000-02)
Attn:* As directed by Ben Headington
Address:* 6625 Selnick Drive, Suite A
City:* Elkridge State:* MD Zip:* 21075

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*	VOCs EPA 524.2	Total Chromium 200.8 (ug/L)	Perchlorate 314.0	Hexavalent Cr6 -7196 (mg/L)	Chloride, Nitrate, Sulfate	Orthophosphate 365.1	Nitrite 353.2			Notes
-12	MW-3-2	1-29-14	1900	AQ	X	X	X	X						

Analysis Requested

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)

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

Cost Center: _____ Global ID: _____

	Date	Time		Date	Time
1. Relinquished By:	1-29-14	1550	1.Received By: Nicole	1/29/14	1550
2. Relinquished By: Nicole	1/29/14	1620	2.Received By:	1/29/14	1620
3. Relinquished By:	1/29/14	1915	3.Received By:	1/29/14	1915

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Chain of Custody and Cooler Receipt Form for 1402099 Page 3 of 4

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 15 07/01/13 Page 1 Of 2

Submission #: 14-02099

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Federal Express ☐ UPS ☐ Hand Delivery	Ice Chest ☑ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____	Other ☐ (Specify)_____	

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

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

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

COC Received ☑ YES ☐ NO

Emissivity: 0.97 Container: Vaos Thermometer ID: 207

Temperature: (A) 2.7 °C / (C) 2.5 °C

Date/Time 1/29/14 1915

Analyst Init TT

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL		B	B	B	B	B	B	B	B	B
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS		C	C	C	C	C	C	C	C	C
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A1									
40ml VOA VIAL		A3	A3	A3	A3	A3	A3	A3	A3	A3
QT EPA 413.1, 413.2, 418.1										
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										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____

Sample Numbering Completed By: TT Date/Time: 1/29/14 1915

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Chain of Custody and Cooler Receipt Form for 1402099 Page 4 of 4

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 15 07/01/13 Page 2 Of 2

Submission #: 14-02099

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Federal Express ☐ UPS ☐ Hand Delivery BC Lab Field Service ☑ Other ☐ (Specify)_____	Ice Chest ☑ None ☐ Box ☐ Other ☐ (Specify)_____	YES ☐ NO ☐

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

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

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

COC Received ☑ YES ☐ NO

Emissivity: 0.97 Container: Vaos Thermometer ID: 207 Date/Time 1/29/14 1915

Temperature: (A) 2.7 °C / (C) 2.5 °C Analyst Init TT

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	B	B								
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS	C	C								
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A (3)	A (3)	( )	( )	( )	( )	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1										
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										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:

Sample Numbering Completed By: TT Date/Time: 1/29/14 1945

A = Actual / C = Corrected

Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1402099-01	**COC Number:**	---	**Receive Date:**	01/29/2014 19:15
	Project Number:	JPL-GW	**Sampling Date:**	01/29/2014 07:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	TB-3-1/29/14	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): TB-3-1/29/14	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402099-02	**COC Number:**	---	**Receive Date:**	01/29/2014 19:15
	Project Number:	JPL-GW	**Sampling Date:**	01/29/2014 07:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	EB-3-1/29/14	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): EB-3-1/29/14	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402099-03	**COC Number:**	---	**Receive Date:**	01/29/2014 19:15
	Project Number:	JPL-GW	**Sampling Date:**	01/29/2014 08:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-20-5	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-20-5	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1402099-04	**COC Number:**	---	**Receive Date:**	01/29/2014 19:15
	Project Number:	JPL-GW	**Sampling Date:**	01/29/2014 08:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-20-4	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-20-4	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402099-05	**COC Number:**	---	**Receive Date:**	01/29/2014 19:15
	Project Number:	JPL-GW	**Sampling Date:**	01/29/2014 09:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-20-3	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-20-3	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402099-06	**COC Number:**	---	**Receive Date:**	01/29/2014 19:15
	Project Number:	JPL-GW	**Sampling Date:**	01/29/2014 09:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-20-2	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-20-2	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1402099-07	**COC Number:**	---	**Receive Date:**	01/29/2014 19:15
	Project Number:	JPL-GW	**Sampling Date:**	01/29/2014 10:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-20-1	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-20-1	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402099-08	**COC Number:**	---	**Receive Date:**	01/29/2014 19:15
	Project Number:	JPL-GW	**Sampling Date:**	01/29/2014 10:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	DUPE-2-1Q14	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): DUPE-2-1Q14	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402099-09	**COC Number:**	---	**Receive Date:**	01/29/2014 19:15
	Project Number:	JPL-GW	**Sampling Date:**	01/29/2014 12:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-3-4	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-3-4	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1402099-10	**COC Number:**	---	**Receive Date:** 01/29/2014 19:15
	Project Number:	JPL-GW	**Sampling Date:** 01/29/2014 13:10
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-3-3	**Lab Matrix:** Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:** Water
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): MW-3-3
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1402099-11	**COC Number:**	---	**Receive Date:** 01/29/2014 19:15
	Project Number:	JPL-GW	**Sampling Date:** 01/29/2014 13:20
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	DUPE-3-1Q14	**Lab Matrix:** Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:** Water
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): DUPE-3-1Q14
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1402099-12	**COC Number:**	---	**Receive Date:** 01/29/2014 19:15
	Project Number:	JPL-GW	**Sampling Date:** 01/29/2014 14:00
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-3-2	**Lab Matrix:** Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:** Water
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): MW-3-2
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402099-01 | **Client Sample Name:** JPL-GW, TB-3-1/29/14, 1/29/2014 7:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402099-01 | **Client Sample Name:** JPL-GW, TB-3-1/29/14, 1/29/2014 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	**14**	**ug/L**	**0.50**	**0.48**	**EPA-524.2**	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402099-01 | **Client Sample Name:** JPL-GW, TB-3-1/29/14, 1/29/2014 7:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	98.5	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/05/14	02/06/14 03:33	MGC	MS-V5	1	BXB0234

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3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402099-01 | **Client Sample Name:** JPL-GW, TB-3-1/29/14, 1/29/2014 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
1	EPA-524.2	02/05/14	02/06/14 03:33	MGC	MS-V5	1	BXB0234

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402099-02 | **Client Sample Name:** JPL-GW, EB-3-1/29/14, 1/29/2014 7:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402099-02 | **Client Sample Name:** JPL-GW, EB-3-1/29/14, 1/29/2014 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	**0.18**	**ug/L**	**0.50**	**0.093**	**EPA-524.2**	ND	**J**	1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402099-02 | **Client Sample Name:** JPL-GW, EB-3-1/29/14, 1/29/2014 7:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	**0.27**	**ug/L**	**0.50**	**0.082**	**EPA-524.2**	ND	**J**	1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/05/14	02/06/14 03:55	MGC	MS-V5	1	BXB0234

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3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402099-02 | **Client Sample Name:** JPL-GW, EB-3-1/29/14, 1/29/2014 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/05/14	02/06/14 03:55	MGC	MS-V5	1	BXB0234

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3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402099-02 | **Client Sample Name:** JPL-GW, EB-3-1/29/14, 1/29/2014 7:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/10/14	02/10/14 22:56	LD1	IC6	1	BXB0726

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Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402099-02 | **Client Sample Name:** JPL-GW, EB-3-1/29/14, 1/29/2014 7:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/29/14	01/29/14 21:39	OLH	KONE-1	1	BXA1949
2	EPA-200.8	01/31/14	01/31/14 18:56	SRM	PE-EL2	1	BXA2028

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Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402099-03 | **Client Sample Name:** JPL-GW, MW-20-5, 1/29/2014 8:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402099-03 | **Client Sample Name:** JPL-GW, MW-20-5, 1/29/2014 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	**0.26**	**ug/L**	**0.50**	**0.068**	**EPA-524.2**	ND	**J**	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402099-03 | **Client Sample Name:** JPL-GW, MW-20-5, 1/29/2014 8:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/05/14	02/06/14 04:18	MGC	MS-V5	1	BXB0234

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Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402099-03 | **Client Sample Name:** JPL-GW, MW-20-5, 1/29/2014 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
1	EPA-524.2	02/05/14	02/06/14 04:18	MGC	MS-V5	1	BXB0234

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Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402099-03 | **Client Sample Name:** JPL-GW, MW-20-5, 1/29/2014 8:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/10/14	02/10/14 23:51	LD1	IC6	1	BXB0726

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Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402099-03 | **Client Sample Name:** JPL-GW, MW-20-5, 1/29/2014 8:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**0.00073**	**mg/L**	**0.0020**	**0.00070**	**EPA-7196**	ND	**J**	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/29/14	01/29/14 21:39	OLH	KONE-1	1	BXA1949
2	EPA-200.8	01/31/14	01/31/14 19:00	SRM	PE-EL2	1	BXA2028

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Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402099-04 | **Client Sample Name:** JPL-GW, MW-20-4, 1/29/2014 8:40:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402099-04 | **Client Sample Name:** JPL-GW, MW-20-4, 1/29/2014 8:40:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	**0.070**	**ug/L**	**0.50**	**0.068**	**EPA-524.2**	ND	**J**	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402099-04 | **Client Sample Name:** JPL-GW, MW-20-4, 1/29/2014 8:40:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/05/14	02/06/14 04:40	MGC	MS-V5	1	BXB0234

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Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402099-04 | **Client Sample Name:** JPL-GW, MW-20-4, 1/29/2014 8:40:00AM, Blaine Tech

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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/05/14	02/06/14 04:40	MGC	MS-V5	1	BXB0234

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Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402099-04 | **Client Sample Name:** JPL-GW, MW-20-4, 1/29/2014 8:40:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/10/14	02/11/14 00:05	LD1	IC6	1	BXB0726

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Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402099-04 | **Client Sample Name:** JPL-GW, MW-20-4, 1/29/2014 8:40:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/29/14	01/29/14 21:39	OLH	KONE-1	1	BXA1949
2	EPA-200.8	01/31/14	01/31/14 19:03	SRM	PE-EL2	1	BXA2028

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Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402099-05 | **Client Sample Name:** JPL-GW, MW-20-3, 1/29/2014 9:20:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402099-05 | **Client Sample Name:** JPL-GW, MW-20-3, 1/29/2014 9:20:00AM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	**0.15**	**ug/L**	**0.50**	**0.098**	**EPA-524.2**	ND	**J**	1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	**0.40**	**ug/L**	**0.50**	**0.068**	**EPA-524.2**	ND	**J**	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**0.21**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
Toluene	**0.12**	**ug/L**	**0.50**	**0.093**	**EPA-524.2**	ND	**J**	1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.14**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	**2.6**	**ug/L**	**5.0**	**1.2**	**EPA-524.2**	ND	**J**	1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402099-05 | **Client Sample Name:** JPL-GW, MW-20-3, 1/29/2014 9:20:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/05/14	02/06/14 05:03	MGC	MS-V5	1	BXB0234

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Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402099-05 | **Client Sample Name:** JPL-GW, MW-20-3, 1/29/2014 9:20:00AM, 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
1	EPA-524.2	02/05/14	02/06/14 05:03	MGC	MS-V5	1	BXB0234

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Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402099-05 | **Client Sample Name:** JPL-GW, MW-20-3, 1/29/2014 9:20:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/10/14	02/11/14 00:46	LD1	IC6	1	BXB0726

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402099-05 | **Client Sample Name:** JPL-GW, MW-20-3, 1/29/2014 9:20:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/29/14	01/29/14 21:39	OLH	KONE-1	1	BXA1949
2	EPA-200.8	01/31/14	01/31/14 19:06	SRM	PE-EL2	1	BXA2028

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Tidewater Inc.
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Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402099-06 | **Client Sample Name:** JPL-GW, MW-20-2, 1/29/2014 9:50:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.18**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND	**J**	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402099-06 | **Client Sample Name:** JPL-GW, MW-20-2, 1/29/2014 9:50:00AM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	**0.070**	**ug/L**	**0.50**	**0.068**	**EPA-524.2**	ND	**J**	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.19**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402099-06 | **Client Sample Name:** JPL-GW, MW-20-2, 1/29/2014 9:50:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/05/14	02/06/14 05:26	MGC	MS-V5	1	BXB0234

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Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402099-06 | **Client Sample Name:** JPL-GW, MW-20-2, 1/29/2014 9:50:00AM, 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/05/14	02/06/14 05:26	MGC	MS-V5	1	BXB0234

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Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402099-06 | **Client Sample Name:** JPL-GW, MW-20-2, 1/29/2014 9:50:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**1.6**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/10/14	02/11/14 01:00	LD1	IC6	1	BXB0726

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Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402099-06 | **Client Sample Name:** JPL-GW, MW-20-2, 1/29/2014 9:50:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/29/14	01/29/14 21:39	OLH	KONE-1	1	BXA1949
2	EPA-200.8	01/31/14	01/31/14 19:09	SRM	PE-EL2	1	BXA2028

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Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402099-07 | **Client Sample Name:** JPL-GW, MW-20-1, 1/29/2014 10:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.18**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND	**J**	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402099-07 | **Client Sample Name:** JPL-GW, MW-20-1, 1/29/2014 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402099-07 | **Client Sample Name:** JPL-GW, MW-20-1, 1/29/2014 10:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/05/14	02/06/14 05:48	MGC	MS-V5	1	BXB0234

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Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402099-07 | **Client Sample Name:** JPL-GW, MW-20-1, 1/29/2014 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/05/14	02/06/14 05:48	MGC	MS-V5	1	BXB0234

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402099-07 | **Client Sample Name:** JPL-GW, MW-20-1, 1/29/2014 10:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/10/14	02/11/14 01:14	LD1	IC6	1	BXB0726

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Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402099-07 | **Client Sample Name:** JPL-GW, MW-20-1, 1/29/2014 10:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/29/14	01/29/14 21:46	OLH	KONE-1	1	BXA1949
2	EPA-200.8	02/03/14	02/05/14 17:31	SRM	PE-EL2	1	BXB0025

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Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402099-08 | **Client Sample Name:** JPL-GW, DUPE-2-1Q14, 1/29/2014 10:40:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.13**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND	**J**	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402099-08 | **Client Sample Name:** JPL-GW, DUPE-2-1Q14, 1/29/2014 10:40:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402099-08 | **Client Sample Name:** JPL-GW, DUPE-2-1Q14, 1/29/2014 10:40:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/05/14	02/06/14 06:11	MGC	MS-V5	1	BXB0234

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Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402099-08 | **Client Sample Name:** JPL-GW, DUPE-2-1Q14, 1/29/2014 10:40:00AM, Blaine Tech

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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/05/14	02/06/14 06:11	MGC	MS-V5	1	BXB0234

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Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402099-08 | **Client Sample Name:** JPL-GW, DUPE-2-1Q14, 1/29/2014 10:40:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/10/14	02/11/14 01:28	LD1	IC6	1	BXB0726

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Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402099-08 | **Client Sample Name:** JPL-GW, DUPE-2-1Q14, 1/29/2014 10:40:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/29/14	01/29/14 21:46	OLH	KONE-1	1	BXA1949
2	EPA-200.8	02/03/14	02/05/14 17:35	SRM	PE-EL2	1	BXB0025

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Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402099-09 | **Client Sample Name:** JPL-GW, MW-3-4, 1/29/2014 12:30:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	**0.15**	**ug/L**	**0.50**	**0.11**	**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	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402099-09 | **Client Sample Name:** JPL-GW, MW-3-4, 1/29/2014 12:30:00PM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**0.13**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402099-09 | **Client Sample Name:** JPL-GW, MW-3-4, 1/29/2014 12:30:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/05/14	02/06/14 06:34	MGC	MS-V5	1	BXB0234

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402099-09 | **Client Sample Name:** JPL-GW, MW-3-4, 1/29/2014 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/05/14	02/06/14 06:34	MGC	MS-V5	1	BXB0234

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Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402099-09 | **Client Sample Name:** JPL-GW, MW-3-4, 1/29/2014 12:30:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/10/14	02/11/14 01:42	LD1	IC6	1	BXB0726

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Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402099-09 | **Client Sample Name:** JPL-GW, MW-3-4, 1/29/2014 12:30:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**0.0011**	**mg/L**	**0.0020**	**0.00070**	**EPA-7196**	ND	**J**	1
Total Recoverable Chromium	**6.2**	**ug/L**	**3.0**	**0.50**	**EPA-200.8**	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/29/14	01/29/14 21:46	OLH	KONE-1	1	BXA1949
2	EPA-200.8	02/03/14	02/05/14 17:38	SRM	PE-EL2	1	BXB0025

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Tidewater Inc.
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Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402099-10 | **Client Sample Name:** JPL-GW, MW-3-3, 1/29/2014 1:10:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	**0.17**	**ug/L**	**0.50**	**0.11**	**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	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402099-10 | **Client Sample Name:** JPL-GW, MW-3-3, 1/29/2014 1:10:00PM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402099-10 | **Client Sample Name:** JPL-GW, MW-3-3, 1/29/2014 1:10:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 16:01	MGC	MS-V5	1	BXB0135

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Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402099-10 | **Client Sample Name:** JPL-GW, MW-3-3, 1/29/2014 1:10:00PM, 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
1	EPA-524.2	02/06/14	02/06/14 16:01	MGC	MS-V5	1	BXB0135

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Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402099-10 | **Client Sample Name:** JPL-GW, MW-3-3, 1/29/2014 1:10:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/10/14	02/11/14 01:55	LD1	IC6	1	BXB0726

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Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402099-10 | **Client Sample Name:** JPL-GW, MW-3-3, 1/29/2014 1:10:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	**1.4**	**ug/L**	**3.0**	**0.50**	**EPA-200.8**	ND	**J**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/29/14	01/29/14 21:46	OLH	KONE-1	1	BXA1949
2	EPA-200.8	02/03/14	02/05/14 17:41	SRM	PE-EL2	1	BXB0025

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Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402099-11 | **Client Sample Name:** JPL-GW, DUPE-3-1Q14, 1/29/2014 1:20:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	**0.24**	**ug/L**	**0.50**	**0.11**	**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	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402099-11 | **Client Sample Name:** JPL-GW, DUPE-3-1Q14, 1/29/2014 1:20:00PM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**0.22**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402099-11 | **Client Sample Name:** JPL-GW, DUPE-3-1Q14, 1/29/2014 1:20:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	99.4	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 16:24	MGC	MS-V5	1	BXB0135

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Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402099-11 | **Client Sample Name:** JPL-GW, DUPE-3-1Q14, 1/29/2014 1:20:00PM, 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 16:24	MGC	MS-V5	1	BXB0135

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402099-11 | **Client Sample Name:** JPL-GW, DUPE-3-1Q14, 1/29/2014 1:20:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/10/14	02/11/14 02:09	LD1	IC6	1	BXB0726

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Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402099-11 | **Client Sample Name:** JPL-GW, DUPE-3-1Q14, 1/29/2014 1:20:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	**6.3**	**ug/L**	**3.0**	**0.50**	**EPA-200.8**	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/29/14	01/29/14 21:46	OLH	KONE-1	1	BXA1951
2	EPA-200.8	02/03/14	02/05/14 17:44	SRM	PE-EL2	1	BXB0025

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Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402099-12 | **Client Sample Name:** JPL-GW, MW-3-2, 1/29/2014 2:00:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402099-12 | **Client Sample Name:** JPL-GW, MW-3-2, 1/29/2014 2:00:00PM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402099-12 | **Client Sample Name:** JPL-GW, MW-3-2, 1/29/2014 2:00:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	89.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 16:47	MGC	MS-V5	1	BXB0135

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Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402099-12 | **Client Sample Name:** JPL-GW, MW-3-2, 1/29/2014 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 16:47	MGC	MS-V5	1	BXB0135

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402099-12 | **Client Sample Name:** JPL-GW, MW-3-2, 1/29/2014 2:00:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**3.9**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/10/14	02/11/14 02:23	LD1	IC6	1	BXB0727

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Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402099-12 | **Client Sample Name:** JPL-GW, MW-3-2, 1/29/2014 2:00:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/29/14	01/29/14 21:49	OLH	KONE-1	1	BXA1951
2	EPA-200.8	02/03/14	02/05/14 17:47	SRM	PE-EL2	1	BXB0025

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0135						
Benzene	BXB0135-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXB0135-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXB0135-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXB0135-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXB0135-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXB0135-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXB0135-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXB0135-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXB0135-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXB0135-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXB0135-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXB0135-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXB0135-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXB0135-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXB0135-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXB0135-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BXB0135-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXB0135-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXB0135-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXB0135-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXB0135-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXB0135-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXB0135-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXB0135-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXB0135-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXB0135-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXB0135-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXB0135-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXB0135-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXB0135-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXB0135-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXB0135-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXB0135-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXB0135-BLK1	ND	ug/L	0.50	0.14	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0135						
trans-1,3-Dichloropropene	BXB0135-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXB0135-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXB0135-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXB0135-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXB0135-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXB0135-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXB0135-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXB0135-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXB0135-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXB0135-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXB0135-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BXB0135-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BXB0135-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXB0135-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXB0135-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXB0135-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BXB0135-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXB0135-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXB0135-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXB0135-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXB0135-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXB0135-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXB0135-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXB0135-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXB0135-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXB0135-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXB0135-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXB0135-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXB0135-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXB0135-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXB0135-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXB0135-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXB0135-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXB0135-BLK1	ND	ug/L	4.0	0.97	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0135						
Ethyl t-butyl ether	BXB0135-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXB0135-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXB0135-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXB0135-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXB0135-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXB0135-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXB0135-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXB0135-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXB0135-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXB0135-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXB0135-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXB0135-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXB0135-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	**BXB0135-BLK1**	**100**	%	**75 - 125 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**BXB0135-BLK1**	**97.5**	%	**80 - 120 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**BXB0135-BLK1**	**87.7**	%	**80 - 120 (LCL - UCL)**		
QC Batch ID: BXB0234						
Benzene	BXB0234-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXB0234-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXB0234-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXB0234-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXB0234-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXB0234-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXB0234-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXB0234-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXB0234-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXB0234-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXB0234-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXB0234-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXB0234-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXB0234-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXB0234-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXB0234-BLK1	ND	ug/L	0.50	0.15	

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Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0234						
Dibromochloromethane	BXB0234-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXB0234-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXB0234-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXB0234-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXB0234-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXB0234-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXB0234-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXB0234-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXB0234-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXB0234-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXB0234-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXB0234-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXB0234-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXB0234-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXB0234-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXB0234-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXB0234-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXB0234-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	BXB0234-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXB0234-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXB0234-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXB0234-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXB0234-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXB0234-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXB0234-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXB0234-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXB0234-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXB0234-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXB0234-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BXB0234-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BXB0234-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXB0234-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXB0234-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXB0234-BLK1	ND	ug/L	0.50	0.19	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0234						
1,1,1-Trichloroethane	BXB0234-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXB0234-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXB0234-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXB0234-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXB0234-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXB0234-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXB0234-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXB0234-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXB0234-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXB0234-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXB0234-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXB0234-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXB0234-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXB0234-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXB0234-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXB0234-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXB0234-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXB0234-BLK1	ND	ug/L	4.0	0.97	
Ethyl t-butyl ether	BXB0234-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXB0234-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXB0234-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXB0234-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXB0234-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXB0234-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXB0234-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXB0234-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXB0234-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXB0234-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXB0234-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXB0234-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXB0234-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	**BXB0234-BLK1**	**101**	%	**75 - 125 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**BXB0234-BLK1**	**101**	%	**80 - 120 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**BXB0234-BLK1**	**96.7**	%	**80 - 120 (LCL - UCL)**		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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 Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXB0135										
Benzene	BXB0135-BS1	LCS	23.340	25.000	ug/L	93.4		70 - 130		
Bromodichloromethane	BXB0135-BS1	LCS	25.700	25.000	ug/L	103		70 - 130		
Chlorobenzene	BXB0135-BS1	LCS	25.140	25.000	ug/L	101		70 - 130		
Chloroethane	BXB0135-BS1	LCS	24.810	25.000	ug/L	99.2		70 - 130		
1,4-Dichlorobenzene	BXB0135-BS1	LCS	26.520	25.000	ug/L	106		70 - 130		
1,1-Dichloroethane	BXB0135-BS1	LCS	23.660	25.000	ug/L	94.6		70 - 130		
1,1-Dichloroethene	BXB0135-BS1	LCS	25.230	25.000	ug/L	101		70 - 130		
Toluene	BXB0135-BS1	LCS	23.800	25.000	ug/L	95.2		70 - 130		
Trichloroethene	BXB0135-BS1	LCS	25.000	25.000	ug/L	100		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXB0135-BS1	LCS	9.8500	10.000	ug/L	98.5		75 - 125		
Toluene-d8 (Surrogate)	BXB0135-BS1	LCS	9.6000	10.000	ug/L	96.0		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXB0135-BS1	LCS	10.510	10.000	ug/L	105		80 - 120		
QC Batch ID: BXB0234										
Benzene	BXB0234-BS1	LCS	24.680	25.000	ug/L	98.7		70 - 130		
Bromodichloromethane	BXB0234-BS1	LCS	25.400	25.000	ug/L	102		70 - 130		
Chlorobenzene	BXB0234-BS1	LCS	25.110	25.000	ug/L	100		70 - 130		
Chloroethane	BXB0234-BS1	LCS	26.290	25.000	ug/L	105		70 - 130		
1,4-Dichlorobenzene	BXB0234-BS1	LCS	26.520	25.000	ug/L	106		70 - 130		
1,1-Dichloroethane	BXB0234-BS1	LCS	25.240	25.000	ug/L	101		70 - 130		
1,1-Dichloroethene	BXB0234-BS1	LCS	26.730	25.000	ug/L	107		70 - 130		
Toluene	BXB0234-BS1	LCS	23.020	25.000	ug/L	92.1		70 - 130		
Trichloroethene	BXB0234-BS1	LCS	26.440	25.000	ug/L	106		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXB0234-BS1	LCS	10.260	10.000	ug/L	103		75 - 125		
Toluene-d8 (Surrogate)	BXB0234-BS1	LCS	9.5100	10.000	ug/L	95.1		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXB0234-BS1	LCS	10.130	10.000	ug/L	101		80 - 120		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXB0135	Used client sample: Y - Description: MW-14-1, 01/27/2014 13:50										
Benzene	MS	1401914-12	ND	27.250	25.000	ug/L		109		70 - 130	
	MSD	1401914-12	ND	25.550	25.000	ug/L	6.4	102	20	70 - 130	
Bromodichloromethane	MS	1401914-12	ND	29.310	25.000	ug/L		117		70 - 130	
	MSD	1401914-12	ND	28.130	25.000	ug/L	4.1	113	20	70 - 130	
Chlorobenzene	MS	1401914-12	ND	28.340	25.000	ug/L		113		70 - 130	
	MSD	1401914-12	ND	26.730	25.000	ug/L	5.8	107	20	70 - 130	
Chloroethane	MS	1401914-12	ND	23.940	25.000	ug/L		95.8		70 - 130	
	MSD	1401914-12	ND	27.560	25.000	ug/L	14.1	110	20	70 - 130	
1,4-Dichlorobenzene	MS	1401914-12	ND	30.470	25.000	ug/L		122		70 - 130	
	MSD	1401914-12	ND	29.410	25.000	ug/L	3.5	118	20	70 - 130	
1,1-Dichloroethane	MS	1401914-12	0.14000	27.760	25.000	ug/L		110		70 - 130	
	MSD	1401914-12	0.14000	26.260	25.000	ug/L	5.6	104	20	70 - 130	
1,1-Dichloroethene	MS	1401914-12	ND	29.590	25.000	ug/L		118		70 - 130	
	MSD	1401914-12	ND	27.590	25.000	ug/L	7.0	110	20	70 - 130	
Toluene	MS	1401914-12	ND	27.830	25.000	ug/L		111		70 - 130	
	MSD	1401914-12	ND	26.180	25.000	ug/L	6.1	105	20	70 - 130	
Trichloroethene	MS	1401914-12	3.3900	29.670	25.000	ug/L		105		70 - 130	
	MSD	1401914-12	3.3900	28.490	25.000	ug/L	4.1	100	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1401914-12	ND	10.710	10.000	ug/L		107		75 - 125	
	MSD	1401914-12	ND	10.020	10.000	ug/L	6.7	100		75 - 125	
Toluene-d8 (Surrogate)	MS	1401914-12	ND	9.9700	10.000	ug/L		99.7		80 - 120	
	MSD	1401914-12	ND	9.8300	10.000	ug/L	1.4	98.3		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1401914-12	ND	10.600	10.000	ug/L		106		80 - 120	
	MSD	1401914-12	ND	10.240	10.000	ug/L	3.5	102		80 - 120	
QC Batch ID: BXB0234	Used client sample: Y - Description: MW-12-2, 01/28/2014 12:45										
Benzene	MS	1402012-10	ND	25.150	25.000	ug/L		101		70 - 130	
	MSD	1402012-10	ND	23.680	25.000	ug/L	6.0	94.7	20	70 - 130	
Bromodichloromethane	MS	1402012-10	ND	26.440	25.000	ug/L		106		70 - 130	
	MSD	1402012-10	ND	26.170	25.000	ug/L	1.0	105	20	70 - 130	
Chlorobenzene	MS	1402012-10	ND	25.150	25.000	ug/L		101		70 - 130	
	MSD	1402012-10	ND	25.190	25.000	ug/L	0.2	101	20	70 - 130	
Chloroethane	MS	1402012-10	ND	27.260	25.000	ug/L		109		70 - 130	
	MSD	1402012-10	ND	25.090	25.000	ug/L	8.3	100	20	70 - 130	
1,4-Dichlorobenzene	MS	1402012-10	ND	26.640	25.000	ug/L		107		70 - 130	
	MSD	1402012-10	ND	26.800	25.000	ug/L	0.6	107	20	70 - 130	
1,1-Dichloroethane	MS	1402012-10	ND	25.380	25.000	ug/L		102		70 - 130	
	MSD	1402012-10	ND	23.680	25.000	ug/L	6.9	94.7	20	70 - 130	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXB0234	Used client sample: Y - Description: MW-12-2, 01/28/2014 12:45										
1,1-Dichloroethene	MS	1402012-10	ND	26.840	25.000	ug/L		107		70 - 130	
	MSD	1402012-10	ND	25.610	25.000	ug/L	4.7	102	20	70 - 130	
Toluene	MS	1402012-10	ND	24.520	25.000	ug/L		98.1		70 - 130	
	MSD	1402012-10	ND	23.600	25.000	ug/L	3.8	94.4	20	70 - 130	
Trichloroethene	MS	1402012-10	ND	25.590	25.000	ug/L		102		70 - 130	
	MSD	1402012-10	ND	25.270	25.000	ug/L	1.3	101	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1402012-10	ND	10.360	10.000	ug/L		104		75 - 125	
	MSD	1402012-10	ND	9.9600	10.000	ug/L	3.9	99.6		75 - 125	
Toluene-d8 (Surrogate)	MS	1402012-10	ND	9.6300	10.000	ug/L		96.3		80 - 120	
	MSD	1402012-10	ND	9.8000	10.000	ug/L	1.7	98.0		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1402012-10	ND	10.060	10.000	ug/L		101		80 - 120	
	MSD	1402012-10	ND	10.370	10.000	ug/L	3.0	104		80 - 120	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0135						
Chloroacetonitrile	BXB0135-BLK1	0	ug/L			
1-Chlorobutane	BXB0135-BLK1	0	ug/L			
1,1-Dichloropropanone	BXB0135-BLK1	0	ug/L			
Methyl acrylate	BXB0135-BLK1	0	ug/L			
Nitrobenzene	BXB0135-BLK1	0	ug/L			
2-Nitropropane	BXB0135-BLK1	0	ug/L			
QC Batch ID: BXB0234						
Chloroacetonitrile	BXB0234-BLK1	0	ug/L			
1-Chlorobutane	BXB0234-BLK1	0	ug/L			
1,1-Dichloropropanone	BXB0234-BLK1	0	ug/L			
Methyl acrylate	BXB0234-BLK1	0	ug/L			
Nitrobenzene	BXB0234-BLK1	0	ug/L			
2-Nitropropane	BXB0234-BLK1	0	ug/L			

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0726						
Perchlorate	BXB0726-BLK1	ND	ug/L	4.0	0.45	
QC Batch ID: BXB0727						
Perchlorate	BXB0727-BLK1	ND	ug/L	4.0	0.45	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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 Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXB0726										
Perchlorate	BXB0726-BS1	LCS	9.7831	10.000	ug/L	97.8		85 - 115		
QC Batch ID: BXB0727										
Perchlorate	BXB0727-BS1	LCS	10.203	10.000	ug/L	102		85 - 115		

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXB0726	Used client sample: Y - Description: EB-3-1/29/14, 01/29/2014 07:30										
Perchlorate	DUP	1402099-02	ND	ND		ug/L			15		
	MS	1402099-02	ND	9.8258	10.101	ug/L		97.3		80 - 120	
	MSD	1402099-02	ND	10.500	10.101	ug/L	6.6	104	15	80 - 120	
QC Batch ID: BXB0727	Used client sample: N										
Perchlorate	DUP	1403086-01	ND	ND		ug/L			15		
	MS	1403086-01	ND	9.1582	10.101	ug/L		90.7		80 - 120	
	MSD	1403086-01	ND	8.4615	10.101	ug/L	7.9	83.8	15	80 - 120	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXA1949						
Hexavalent Chromium	BXA1949-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BXA1951						
Hexavalent Chromium	BXA1951-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BXA2028						
Total Recoverable Chromium	BXA2028-BLK1	ND	ug/L	3.0	0.50	
QC Batch ID: BXB0025						
Total Recoverable Chromium	BXB0025-BLK1	ND	ug/L	3.0	0.50	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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 Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXA1949										
Hexavalent Chromium	BXA1949-BS1	LCS	0.053379	0.050000	mg/L	107		85 - 115		
QC Batch ID: BXA1951										
Hexavalent Chromium	BXA1951-BS1	LCS	0.053126	0.050000	mg/L	106		85 - 115		
QC Batch ID: BXA2028										
Total Recoverable Chromium	BXA2028-BS1	LCS	38.900	40.000	ug/L	97.2		85 - 115		
QC Batch ID: BXB0025										
Total Recoverable Chromium	BXB0025-BS1	LCS	37.421	40.000	ug/L	93.6		85 - 115		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXA1949	Used client sample: Y - Description: EB-3-1/29/14, 01/29/2014 07:30										
Hexavalent Chromium	DUP	1402099-02	ND	0.00083800		mg/L			10		J
	MS	1402099-02	ND	0.053038	0.052632	mg/L		101		85 - 115	
	MSD	1402099-02	ND	0.053244	0.052632	mg/L	0.4	101	10	85 - 115	
QC Batch ID: BXA1951	Used client sample: Y - Description: DUPE-3-1Q14, 01/29/2014 13:20										
Hexavalent Chromium	DUP	1402099-11	ND	ND		mg/L			10		
	MS	1402099-11	ND	0.048917	0.052632	mg/L		92.9		85 - 115	
	MSD	1402099-11	ND	0.049365	0.052632	mg/L	0.9	93.8	10	85 - 115	
QC Batch ID: BXA2028	Used client sample: N										
Total Recoverable Chromium	DUP	1402094-02	7.4680	7.4620		ug/L	0.1		20		
	MS	1402094-02	7.4680	47.462	40.000	ug/L		100		70 - 130	
	MSD	1402094-02	7.4680	47.346	40.000	ug/L	0.2	99.7	20	70 - 130	
QC Batch ID: BXB0025	Used client sample: N										
Total Recoverable Chromium	DUP	1402161-01	8.7900	9.2430		ug/L	5.0		20		
	MS	1402161-01	8.7900	45.038	40.000	ug/L		90.6		70 - 130	
	MSD	1402161-01	8.7900	44.853	40.000	ug/L	0.4	90.2	20	70 - 130	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/13/2014 14:11
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference

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Date of Report: 02/14/2014

David Conner

Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Client Project:	1st Qtr.
BCL Project:	JPL- GW Monitoring Wells
BCL Work Order:	1402191
Invoice ID:	B166325

Enclosed are the results of analyses for samples received by the laboratory on 1/30/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton
Client Service Rep

Authorized Signature

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BC Laboratories, Inc. — Chain of Custody Form

*Required Fields

Page 1 of 2

Report To: Client:* Tidewater, Inc.	Project Description:* JPL-GW Monitoring
Attn:* David Conner	
Street Address:* 3761 Attucks Drive	Project Code:* 1st Qtr.
City:* Powell State:* OH Zip:* 43065	
Phone#:*(614) 792 - 2897 Fax#: (614) 792 - 2897	Sampler (s):* Blaine Tech
Email Address: david.conner@tideh2o.net	
Submission #: 14-02191	

Billing
Client:* Tidewater, Inc. (P.O. #1213-000-02)
Attn:* As directed by Ben Headington
Address:* 6625 Selnick Drive, Suite A
City:* Elkridge State:* MD Zip:* 21075
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*	VOCs EPA 524.2	Total Chromium 200.8 (ug/L)	Perchlorate 314.0	Hexavalent Cr6 -7196 (mg/L)	Chloride, Nitrate, Sulfate	Orthophosphate 365.1	Nitrite 353.2				Notes
-1	TB-4-1/30/14	1-30-14	0600	AQ	X										
-2	EB-4-1/30/14		0620		X	X	X	X							
-3	MW-22-3		0700		X	X	X	X							
-4	MW-22-2		0730		X	X	X	X							
-5	MW-22-1		0800		X	X	X	X							
-6	MW-26-2		0915		X	X	X	X							
-7	MW-26-1		0945		X	X	X	X							MS/MSD
-8	MW-25-5		1130		X	X	X	X							
-9	MW-25-4		1210		X	X	X	X							
-10	MW-25-3		1245		X	X	X	X							
-11	MW-25-2		1315		X	X	X	X							Level IV

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)

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

Cost Center: _____ Global ID: _____

	Relinquished By:	Date	Time	Received By:	Date	Time
1.		1-30-14	1520	Nicole	1/30/14	1520
2.	Nicole	1/30/14	1610		1-30-14	1610
3.		1-30-14	2035	KO	1-30-14	2055

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

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BC Laboratories, Inc. — Chain of Custody Form

*Required Fields

Page 2 of 2

Report To: Client:* Tidewater, Inc.	Project Description:* JPL-GW Monitoring
Attn:* David Conner	
Street Address:* 3761 Attucks Drive	Project Code:* 1st Qtr.
City:* Powell State:* OH Zip:* 43065	
Phone#:* (614) 792 - 2897 Fax#: (614) 792 - 2897	Sampler (s):* Blaine Tech
Email Address: david.conner@tideh2o.net	
Submission #: 14-02191	

Billing

Client:* Tidewater, Inc. (P.O. #1213-000-02)
Attn:* As directed by Ben Headington
Address:* 6625 Selnick Drive, Suite A
City:* Elkridge State:* MD Zip:* 21075

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*	VOCs EPA 524.2	Total Chromium 200.8 (ug/L)	Perchlorate 314.0	Hexavalent Cr6 -7196 (mg/L)	Chloride, Nitrate, Sulfate	Orthophosphate 365.1	Nitrite 353.2	Notes
-12	MW-2.5-1	1-30-14	1345	AQ	X	X	X	X				

CHK BY DISTRIBUTION — SUB-OUT ☐

7196 — SHORT HOLDING TIME: Cr^{+6} NO_2 NO_3 OP SS DO C_2 BOD MBAS COT

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

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

Lab TAT Approval: _____ *Additional Charges May Apply

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

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

Cost Center: _____ Global ID: _____

	Relinquished By:	Date	Time	Received By:	Date	Time
1.		1-30-14	1520	Nicole	1/30/14	1520
2.	Nicole	1/30/14	1610		1-30-14	1610
3.		1-30-14	2035	KO	1-30-14	2035

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Chain of Custody and Cooler Receipt Form for 1402191 Page 3 of 4

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 15 07/01/13 Page 1 Of 2

Submission #: 14-02191

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Federal Express ☐ UPS ☐ Hand Delivery	Ice Chest ☑ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____	Other ☐ (Specify)_____	

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

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

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

☑ COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: Otpe Thermometer ID: 207

Temperature: (A) 1.9 °C / (C) 1.9 °C

Date/Time 1-30-14 2035

Analyst Init KIQ

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL		B	B	B	B	B	B	B	B	B
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS		C	C	C	C	C	C	C	C	C
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A(1)									
40ml VOA VIAL	( )	A(3)	A(3)	A(3)	A(3)	A(3)	A(6)	A(3)	A(3)	A(3)
QT EPA 413.1, 413.2, 418.1										
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										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____

Sample Numbering Completed By: KIQ Date/Time: 1-30-14 @ 2120

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Chain of Custody and Cooler Receipt Form for 1402191 Page 4 of 4

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 15 07/01/13 Page 2 Of 2

Submission #: 14-02191

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Federal Express ☐ UPS ☐ Hand Delivery BC Lab Field Service ☑ Other ☐ (Specify)_____	Ice Chest ☑ None ☐ Box ☐ Other ☐ (Specify)_____	YES ☐ NO ☐

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

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

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

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: Otpe Thermometer ID: 207 Date/Time 1-30-14

Temperature: (A) 1.9 °C / (C) 1.9 °C Analyst Init KIQ 2035

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	B	B								
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS	C	C								
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A (3)	A (3)	( )	( )	( )	( )	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1										
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										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____

Sample Numbering Completed By: KIQ Date/Time: 1-30-14 @ 2130

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1402191-01	**COC Number:**	---	**Receive Date:**	01/30/2014 20:35
	Project Number:	JPL-GW	**Sampling Date:**	01/30/2014 06:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	TB-4-1/30/14	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Aqueous
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): TB-3-1/29/14	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402191-02	**COC Number:**	---	**Receive Date:**	01/30/2014 20:35
	Project Number:	JPL-GW	**Sampling Date:**	01/30/2014 06:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	EB-4-1/30/14	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Aqueous
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): EB-3-1/29/14	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402191-03	**COC Number:**	---	**Receive Date:**	01/30/2014 20:35
	Project Number:	JPL-GW	**Sampling Date:**	01/30/2014 07:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-22-3	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Aqueous
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-20-5	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1402191-04	**COC Number:**	---	**Receive Date:**	01/30/2014 20:35
	Project Number:	JPL-GW	**Sampling Date:**	01/30/2014 07:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-22-2	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Aqueous
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-20-4	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402191-05	**COC Number:**	---	**Receive Date:**	01/30/2014 20:35
	Project Number:	JPL-GW	**Sampling Date:**	01/30/2014 08:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-22-1	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Aqueous
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-20-3	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402191-06	**COC Number:**	---	**Receive Date:**	01/30/2014 20:35
	Project Number:	JPL-GW	**Sampling Date:**	01/30/2014 09:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-26-2	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Aqueous
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-20-2	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1402191-07	**COC Number:**	---	**Receive Date:**	01/30/2014 20:35
	Project Number:	JPL-GW	**Sampling Date:**	01/30/2014 09:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-26-1	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Aqueous
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-20-1	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402191-08	**COC Number:**	---	**Receive Date:**	01/30/2014 20:35
	Project Number:	JPL-GW	**Sampling Date:**	01/30/2014 11:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-25-5	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Aqueous
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): DUPE-2-1Q14	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402191-09	**COC Number:**	---	**Receive Date:**	01/30/2014 20:35
	Project Number:	JPL-GW	**Sampling Date:**	01/30/2014 12:10
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-25-4	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Aqueous
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-3-4	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1402191-10	**COC Number:**	---	**Receive Date:**	01/30/2014 20:35
	Project Number:	JPL-GW	**Sampling Date:**	01/30/2014 12:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-25-3	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Aqueous
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-3-3	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402191-11	**COC Number:**	---	**Receive Date:**	01/30/2014 20:35
	Project Number:	JPL-GW	**Sampling Date:**	01/30/2014 13:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-25-2	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Aqueous
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): DUPE-3-1Q14	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402191-12	**COC Number:**	---	**Receive Date:**	01/30/2014 20:35
	Project Number:	JPL-GW	**Sampling Date:**	01/30/2014 13:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-25-1	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Aqueous
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-3-2	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402191-01 | **Client Sample Name:** JPL-GW, TB-4-1/30/14, 1/30/2014 6:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402191-01 | **Client Sample Name:** JPL-GW, TB-4-1/30/14, 1/30/2014 6:00:00AM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	**14**	**ug/L**	**0.50**	**0.48**	**EPA-524.2**	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402191-01 | **Client Sample Name:** JPL-GW, TB-4-1/30/14, 1/30/2014 6:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	97.6	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	89.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/07/14	02/08/14 01:40	MGC	MS-V5	1	BXB0395

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402191-01 | **Client Sample Name:** JPL-GW, TB-4-1/30/14, 1/30/2014 6:00:00AM, 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
1	EPA-524.2	02/07/14	02/08/14 01:40	MGC	MS-V5	1	BXB0395

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Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402191-02 | **Client Sample Name:** JPL-GW, EB-4-1/30/14, 1/30/2014 6:20:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402191-02 | **Client Sample Name:** JPL-GW, EB-4-1/30/14, 1/30/2014 6:20:00AM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	**0.17**	**ug/L**	**0.50**	**0.093**	**EPA-524.2**	ND	**J**	1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402191-02 | **Client Sample Name:** JPL-GW, EB-4-1/30/14, 1/30/2014 6:20:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	**0.24**	**ug/L**	**0.50**	**0.082**	**EPA-524.2**	ND	**J**	1
1,2-Dichloroethane-d4 (Surrogate)	96.5	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	84.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/07/14	02/08/14 02:03	MGC	MS-V5	1	BXB0395

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Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402191-02 | **Client Sample Name:** JPL-GW, EB-4-1/30/14, 1/30/2014 6:20:00AM, 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
1	EPA-524.2	02/07/14	02/08/14 02:03	MGC	MS-V5	1	BXB0395

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Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402191-02 | **Client Sample Name:** JPL-GW, EB-4-1/30/14, 1/30/2014 6:20:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/11/14	02/12/14 01:13	LD1	IC6	1	BXB0845

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Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402191-02 | **Client Sample Name:** JPL-GW, EB-4-1/30/14, 1/30/2014 6:20:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**0.00077**	**mg/L**	**0.0020**	**0.00070**	**EPA-7196**	ND	**J**	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/30/14	01/30/14 22:53	OLH	KONE-1	1	BXA2085
2	EPA-200.8	02/05/14	02/05/14 16:33	SRM	PE-EL2	1	BXB0243

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Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402191-03 | **Client Sample Name:** JPL-GW, MW-22-3, 1/30/2014 7:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402191-03 | **Client Sample Name:** JPL-GW, MW-22-3, 1/30/2014 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.12**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402191-03 | **Client Sample Name:** JPL-GW, MW-22-3, 1/30/2014 7:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	99.4	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	95.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	87.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/07/14	02/08/14 02:25	MGC	MS-V5	1	BXB0395

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402191-03 | **Client Sample Name:** JPL-GW, MW-22-3, 1/30/2014 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
1	EPA-524.2	02/07/14	02/08/14 02:25	MGC	MS-V5	1	BXB0395

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Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402191-03 | **Client Sample Name:** JPL-GW, MW-22-3, 1/30/2014 7:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**2.6**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/11/14	02/12/14 15:33	LD1	IC6	1	BXB0845

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Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402191-03 | **Client Sample Name:** JPL-GW, MW-22-3, 1/30/2014 7:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**0.0030**	**mg/L**	**0.0020**	**0.00070**	**EPA-7196**	ND		1
Total Recoverable Chromium	**1.4**	**ug/L**	**3.0**	**0.50**	**EPA-200.8**	ND	**J**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/30/14	01/30/14 22:53	OLH	KONE-1	1	BXA2085
2	EPA-200.8	02/05/14	02/05/14 18:10	SRM	PE-EL2	1	BXB0243

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Tidewater Inc.
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Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402191-04 | **Client Sample Name:** JPL-GW, MW-22-2, 1/30/2014 7:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.15**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND	**J**	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402191-04 | **Client Sample Name:** JPL-GW, MW-22-2, 1/30/2014 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.12**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402191-04 | **Client Sample Name:** JPL-GW, MW-22-2, 1/30/2014 7:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	98.7	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	95.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	87.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/07/14	02/08/14 02:48	MGC	MS-V5	1	BXB0395

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402191-04 | **Client Sample Name:** JPL-GW, MW-22-2, 1/30/2014 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/07/14	02/08/14 02:48	MGC	MS-V5	1	BXB0395

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402191-04 | **Client Sample Name:** JPL-GW, MW-22-2, 1/30/2014 7:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**2.5**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/11/14	02/12/14 01:41	LD1	IC6	1	BXB0845

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Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402191-04 | **Client Sample Name:** JPL-GW, MW-22-2, 1/30/2014 7:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**0.0023**	**mg/L**	**0.0020**	**0.00070**	**EPA-7196**	ND		1
Total Recoverable Chromium	**1.4**	**ug/L**	**3.0**	**0.50**	**EPA-200.8**	ND	**J**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/30/14	01/30/14 22:53	OLH	KONE-1	1	BXA2085
2	EPA-200.8	02/05/14	02/05/14 18:13	SRM	PE-EL2	1	BXB0243

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Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402191-05 | **Client Sample Name:** JPL-GW, MW-22-1, 1/30/2014 8:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.52**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	**0.13**	**ug/L**	**0.50**	**0.11**	**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	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402191-05 | **Client Sample Name:** JPL-GW, MW-22-1, 1/30/2014 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	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**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**2.0**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402191-05 | **Client Sample Name:** JPL-GW, MW-22-1, 1/30/2014 8:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	98.9	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	87.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/07/14	02/08/14 03:11	MGC	MS-V5	1	BXB0395

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Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402191-05 | **Client Sample Name:** JPL-GW, MW-22-1, 1/30/2014 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
1	EPA-524.2	02/07/14	02/08/14 03:11	MGC	MS-V5	1	BXB0395

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Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402191-05 | **Client Sample Name:** JPL-GW, MW-22-1, 1/30/2014 8:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**3.3**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/11/14	02/12/14 12:19	LD1	IC6	1	BXB0845

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Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402191-05 | **Client Sample Name:** JPL-GW, MW-22-1, 1/30/2014 8:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	**2.7**	**ug/L**	**3.0**	**0.50**	**EPA-200.8**	ND	**J**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/30/14	01/30/14 22:53	OLH	KONE-1	1	BXA2085
2	EPA-200.8	02/05/14	02/05/14 18:17	SRM	PE-EL2	1	BXB0243

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Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402191-06 | **Client Sample Name:** JPL-GW, MW-26-2, 1/30/2014 9:15:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	**0.21**	**ug/L**	**0.50**	**0.14**	**EPA-524.2**	ND	**J**	1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**1.2**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	**0.25**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402191-06 | **Client Sample Name:** JPL-GW, MW-26-2, 1/30/2014 9:15:00AM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	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**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.28**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402191-06 | **Client Sample Name:** JPL-GW, MW-26-2, 1/30/2014 9:15:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	99.9	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	89.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/07/14	02/08/14 03:33	MGC	MS-V5	1	BXB0395

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402191-06 | **Client Sample Name:** JPL-GW, MW-26-2, 1/30/2014 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
1	EPA-524.2	02/07/14	02/08/14 03:33	MGC	MS-V5	1	BXB0395

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Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402191-06 | **Client Sample Name:** JPL-GW, MW-26-2, 1/30/2014 9:15:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**2.6**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/11/14	02/12/14 02:36	LD1	IC6	1	BXB0846

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Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402191-06 | **Client Sample Name:** JPL-GW, MW-26-2, 1/30/2014 9:15:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**0.0011**	**mg/L**	**0.0020**	**0.00070**	**EPA-7196**	ND	**J**	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/30/14	01/30/14 22:53	OLH	KONE-1	1	BXA2085
2	EPA-200.8	02/05/14	02/05/14 18:20	SRM	PE-EL2	1	BXB0243

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Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402191-07 | **Client Sample Name:** JPL-GW, MW-26-1, 1/30/2014 9:45:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.31**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND	**J**	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402191-07 | **Client Sample Name:** JPL-GW, MW-26-1, 1/30/2014 9:45:00AM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	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**	**0.13**	**EPA-524.2**	ND	**J**	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.37**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402191-07 | **Client Sample Name:** JPL-GW, MW-26-1, 1/30/2014 9:45:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	93.2	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	95.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	88.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/07/14	02/07/14 23:25	MGC	MS-V5	1	BXB0395

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Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402191-07 | **Client Sample Name:** JPL-GW, MW-26-1, 1/30/2014 9:45:00AM, 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
1	EPA-524.2	02/07/14	02/07/14 23:25	MGC	MS-V5	1	BXB0395

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Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402191-07 | **Client Sample Name:** JPL-GW, MW-26-1, 1/30/2014 9:45:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**2.5**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/11/14	02/12/14 03:59	LD1	IC6	1	BXB0846

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402191-07 | **Client Sample Name:** JPL-GW, MW-26-1, 1/30/2014 9:45:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/30/14	01/30/14 23:00	OLH	KONE-1	1	BXA2085
2	EPA-200.8	02/05/14	02/05/14 18:23	SRM	PE-EL2	1	BXB0243

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Tidewater Inc.
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Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402191-08 | **Client Sample Name:** JPL-GW, MW-25-5, 1/30/2014 11:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402191-08 | **Client Sample Name:** JPL-GW, MW-25-5, 1/30/2014 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	**0.45**	**ug/L**	**1.0**	**0.38**	**EPA-524.2**	ND	**J**	1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402191-08 | **Client Sample Name:** JPL-GW, MW-25-5, 1/30/2014 11:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	97.6	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	87.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/07/14	02/08/14 03:55	MGC	MS-V5	1	BXB0395

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Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402191-08 | **Client Sample Name:** JPL-GW, MW-25-5, 1/30/2014 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/07/14	02/08/14 03:55	MGC	MS-V5	1	BXB0395

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Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402191-08 | **Client Sample Name:** JPL-GW, MW-25-5, 1/30/2014 11:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/11/14	02/12/14 04:13	LD1	IC6	1	BXB0846

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Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402191-08 | **Client Sample Name:** JPL-GW, MW-25-5, 1/30/2014 11:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/30/14	01/30/14 23:00	OLH	KONE-1	1	BXA2085
2	EPA-200.8	02/05/14	02/05/14 18:26	SRM	PE-EL2	1	BXB0243

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Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402191-09 | **Client Sample Name:** JPL-GW, MW-25-4, 1/30/2014 12:10:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402191-09 | **Client Sample Name:** JPL-GW, MW-25-4, 1/30/2014 12:10:00PM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402191-09 | **Client Sample Name:** JPL-GW, MW-25-4, 1/30/2014 12:10:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	98.9	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	88.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/07/14	02/08/14 04:18	MGC	MS-V5	1	BXB0395

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Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402191-09 | **Client Sample Name:** JPL-GW, MW-25-4, 1/30/2014 12:10:00PM, 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
1	EPA-524.2	02/07/14	02/08/14 04:18	MGC	MS-V5	1	BXB0395

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402191-09 | **Client Sample Name:** JPL-GW, MW-25-4, 1/30/2014 12:10:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**10**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/11/14	02/12/14 04:27	LD1	IC6	1	BXB0846

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Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402191-09 | **Client Sample Name:** JPL-GW, MW-25-4, 1/30/2014 12:10:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**0.00087**	**mg/L**	**0.0020**	**0.00070**	**EPA-7196**	ND	**J**	1
Total Recoverable Chromium	**0.86**	**ug/L**	**3.0**	**0.50**	**EPA-200.8**	ND	**J**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/30/14	01/30/14 23:00	OLH	KONE-1	1	BXA2085
2	EPA-200.8	02/05/14	02/05/14 18:29	SRM	PE-EL2	1	BXB0243

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Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402191-10 | **Client Sample Name:** JPL-GW, MW-25-3, 1/30/2014 12:45:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.86**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402191-10 | **Client Sample Name:** JPL-GW, MW-25-3, 1/30/2014 12:45:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	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**	**0.13**	**EPA-524.2**	ND	**J**	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402191-10 | **Client Sample Name:** JPL-GW, MW-25-3, 1/30/2014 12:45:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	98.2	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	86.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/07/14	02/08/14 04:41	MGC	MS-V5	1	BXB0395

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3761 Attucks Drive
Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402191-10 | **Client Sample Name:** JPL-GW, MW-25-3, 1/30/2014 12:45:00PM, 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/07/14	02/08/14 04:41	MGC	MS-V5	1	BXB0395

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Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402191-10 | **Client Sample Name:** JPL-GW, MW-25-3, 1/30/2014 12:45:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**12**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/11/14	02/12/14 04:41	LD1	IC6	1	BXB0846

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Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402191-10 | **Client Sample Name:** JPL-GW, MW-25-3, 1/30/2014 12:45:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**0.0030**	**mg/L**	**0.0020**	**0.00070**	**EPA-7196**	ND		1
Total Recoverable Chromium	**1.8**	**ug/L**	**3.0**	**0.50**	**EPA-200.8**	ND	**J**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/30/14	01/30/14 23:00	TDC	KONE-1	1	BXA2085
2	EPA-200.8	02/05/14	02/05/14 18:33	SRM	PE-EL2	1	BXB0243

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Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402191-11 | **Client Sample Name:** JPL-GW, MW-25-2, 1/30/2014 1:15:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402191-11 | **Client Sample Name:** JPL-GW, MW-25-2, 1/30/2014 1:15:00PM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.18**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402191-11 | **Client Sample Name:** JPL-GW, MW-25-2, 1/30/2014 1:15:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	95.9	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	88.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/07/14	02/08/14 05:03	MGC	MS-V5	1	BXB0395

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402191-11 | **Client Sample Name:** JPL-GW, MW-25-2, 1/30/2014 1:15:00PM, 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/07/14	02/08/14 05:03	MGC	MS-V5	1	BXB0395

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Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402191-11 | **Client Sample Name:** JPL-GW, MW-25-2, 1/30/2014 1:15:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**15**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/11/14	02/12/14 04:55	LD1	IC6	1	BXB0846

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Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402191-11 | **Client Sample Name:** JPL-GW, MW-25-2, 1/30/2014 1:15:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**0.0016**	**mg/L**	**0.0020**	**0.00070**	**EPA-7196**	ND	**J**	1
Total Recoverable Chromium	**4.0**	**ug/L**	**3.0**	**0.50**	**EPA-200.8**	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/30/14	01/30/14 23:04	OLH	KONE-1	1	BXA2085
2	EPA-200.8	02/06/14	02/07/14 12:11	SRM	PE-EL2	1	BXB0324

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Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402191-12 | **Client Sample Name:** JPL-GW, MW-25-1, 1/30/2014 1:45:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.43**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND	**J**	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402191-12 | **Client Sample Name:** JPL-GW, MW-25-1, 1/30/2014 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	**0.26**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND	**J**	1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**1.9**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402191-12 | **Client Sample Name:** JPL-GW, MW-25-1, 1/30/2014 1:45:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	85.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/07/14	02/08/14 07:42	MGC	MS-V5	1	BXB0395

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Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402191-12 | **Client Sample Name:** JPL-GW, MW-25-1, 1/30/2014 1:45:00PM, 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/07/14	02/08/14 07:42	MGC	MS-V5	1	BXB0395

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Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402191-12 | **Client Sample Name:** JPL-GW, MW-25-1, 1/30/2014 1:45:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**11**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/11/14	02/12/14 05:09	LD1	IC6	1	BXB0846

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402191-12 | **Client Sample Name:** JPL-GW, MW-25-1, 1/30/2014 1:45:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	**2.0**	**ug/L**	**3.0**	**0.50**	**EPA-200.8**	ND	**J**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/30/14	01/30/14 23:04	OLH	KONE-1	1	BXA2086
2	EPA-200.8	02/06/14	02/07/14 12:14	SRM	PE-EL2	1	BXB0324

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Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0395						
Benzene	BXB0395-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXB0395-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXB0395-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXB0395-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXB0395-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXB0395-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXB0395-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXB0395-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXB0395-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXB0395-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXB0395-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXB0395-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXB0395-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXB0395-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXB0395-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXB0395-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BXB0395-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXB0395-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXB0395-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXB0395-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXB0395-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXB0395-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXB0395-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXB0395-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXB0395-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXB0395-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXB0395-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXB0395-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXB0395-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXB0395-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXB0395-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXB0395-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXB0395-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXB0395-BLK1	ND	ug/L	0.50	0.14	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0395						
trans-1,3-Dichloropropene	BXB0395-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXB0395-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXB0395-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXB0395-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXB0395-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXB0395-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXB0395-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXB0395-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXB0395-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXB0395-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXB0395-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BXB0395-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BXB0395-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXB0395-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXB0395-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXB0395-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BXB0395-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXB0395-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXB0395-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXB0395-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXB0395-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXB0395-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXB0395-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXB0395-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXB0395-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXB0395-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXB0395-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXB0395-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXB0395-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXB0395-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXB0395-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXB0395-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXB0395-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXB0395-BLK1	ND	ug/L	4.0	0.97	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0395						
Ethyl t-butyl ether	BXB0395-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXB0395-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXB0395-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXB0395-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXB0395-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXB0395-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXB0395-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXB0395-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXB0395-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXB0395-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXB0395-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXB0395-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXB0395-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	**BXB0395-BLK1**	**98.6**	%	**75 - 125 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**BXB0395-BLK1**	**98.1**	%	**80 - 120 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**BXB0395-BLK1**	**90.8**	%	**80 - 120 (LCL - UCL)**		

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Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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 Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXB0395										
Benzene	BXB0395-BS1	LCS	26.610	25.000	ug/L	106		70 - 130		
Bromodichloromethane	BXB0395-BS1	LCS	27.180	25.000	ug/L	109		70 - 130		
Chlorobenzene	BXB0395-BS1	LCS	26.960	25.000	ug/L	108		70 - 130		
Chloroethane	BXB0395-BS1	LCS	29.020	25.000	ug/L	116		70 - 130		
1,4-Dichlorobenzene	BXB0395-BS1	LCS	26.900	25.000	ug/L	108		70 - 130		
1,1-Dichloroethane	BXB0395-BS1	LCS	26.880	25.000	ug/L	108		70 - 130		
1,1-Dichloroethene	BXB0395-BS1	LCS	27.930	25.000	ug/L	112		70 - 130		
Toluene	BXB0395-BS1	LCS	25.310	25.000	ug/L	101		70 - 130		
Trichloroethene	BXB0395-BS1	LCS	29.480	25.000	ug/L	118		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXB0395-BS1	LCS	9.9400	10.000	ug/L	99.4		75 - 125		
Toluene-d8 (Surrogate)	BXB0395-BS1	LCS	9.5100	10.000	ug/L	95.1		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXB0395-BS1	LCS	9.7600	10.000	ug/L	97.6		80 - 120		

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Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXB0395	Used client sample: Y - Description: MW-26-1, 01/30/2014 09:45										
Benzene	MS	1402191-07	ND	23.720	25.000	ug/L		94.9		70 - 130	
	MSD	1402191-07	ND	24.510	25.000	ug/L	3.3	98.0	20	70 - 130	
Bromodichloromethane	MS	1402191-07	ND	23.680	25.000	ug/L		94.7		70 - 130	
	MSD	1402191-07	ND	26.170	25.000	ug/L	10.0	105	20	70 - 130	
Chlorobenzene	MS	1402191-07	ND	24.920	25.000	ug/L		99.7		70 - 130	
	MSD	1402191-07	ND	25.340	25.000	ug/L	1.7	101	20	70 - 130	
Chloroethane	MS	1402191-07	ND	25.070	25.000	ug/L		100		70 - 130	
	MSD	1402191-07	ND	26.250	25.000	ug/L	4.6	105	20	70 - 130	
1,4-Dichlorobenzene	MS	1402191-07	ND	26.190	25.000	ug/L		105		70 - 130	
	MSD	1402191-07	ND	27.100	25.000	ug/L	3.4	108	20	70 - 130	
1,1-Dichloroethane	MS	1402191-07	ND	23.590	25.000	ug/L		94.4		70 - 130	
	MSD	1402191-07	ND	24.220	25.000	ug/L	2.6	96.9	20	70 - 130	
1,1-Dichloroethene	MS	1402191-07	ND	24.460	25.000	ug/L		97.8		70 - 130	
	MSD	1402191-07	ND	25.170	25.000	ug/L	2.9	101	20	70 - 130	
Toluene	MS	1402191-07	ND	22.550	25.000	ug/L		90.2		70 - 130	
	MSD	1402191-07	ND	24.210	25.000	ug/L	7.1	96.8	20	70 - 130	
Trichloroethene	MS	1402191-07	0.37000	24.110	25.000	ug/L		95.0		70 - 130	
	MSD	1402191-07	0.37000	25.670	25.000	ug/L	6.3	101	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1402191-07	ND	9.6800	10.000	ug/L		96.8		75 - 125	
	MSD	1402191-07	ND	9.7000	10.000	ug/L	0.2	97.0		75 - 125	
Toluene-d8 (Surrogate)	MS	1402191-07	ND	9.3800	10.000	ug/L		93.8		80 - 120	
	MSD	1402191-07	ND	9.7200	10.000	ug/L	3.6	97.2		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1402191-07	ND	10.360	10.000	ug/L		104		80 - 120	
	MSD	1402191-07	ND	10.420	10.000	ug/L	0.6	104		80 - 120	

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0395						
Chloroacetonitrile	BXB0395-BLK1	0	ug/L			
1-Chlorobutane	BXB0395-BLK1	0	ug/L			
1,1-Dichloropropanone	BXB0395-BLK1	0	ug/L			
Methyl acrylate	BXB0395-BLK1	0	ug/L			
Nitrobenzene	BXB0395-BLK1	0	ug/L			
2-Nitropropane	BXB0395-BLK1	0	ug/L			

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0845						
Perchlorate	BXB0845-BLK1	ND	ug/L	4.0	0.45	
QC Batch ID: BXB0846						
Perchlorate	BXB0846-BLK1	ND	ug/L	4.0	0.45	

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Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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 Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXB0845										
Perchlorate	BXB0845-BS1	LCS	9.3547	10.000	ug/L	93.5		85 - 115		
QC Batch ID: BXB0846										
Perchlorate	BXB0846-BS1	LCS	10.943	10.000	ug/L	109		85 - 115		

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Powell, OH 43065

Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXB0845	Used client sample: N										
Perchlorate	DUP	1402179-02	ND	ND		ug/L			15		
	MS	1402179-02	ND	8.7567	10.101	ug/L		86.7		80 - 120	
	MSD	1402179-02	ND	8.5021	10.101	ug/L	2.9	84.2	15	80 - 120	
QC Batch ID: BXB0846	Used client sample: Y - Description: MW-26-2, 01/30/2014 09:15										
Perchlorate	DUP	1402191-06	2.6100	2.4525		ug/L	6.2		15		J
	MS	1402191-06	2.6100	12.740	10.101	ug/L		100		80 - 120	
	MSD	1402191-06	2.6100	12.749	10.101	ug/L	0.1	100	15	80 - 120	

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Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXA2085						
Hexavalent Chromium	BXA2085-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BXA2086						
Hexavalent Chromium	BXA2086-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BXB0243						
Total Recoverable Chromium	BXB0243-BLK1	ND	ug/L	3.0	0.50	
QC Batch ID: BXB0324						
Total Recoverable Chromium	BXB0324-BLK1	ND	ug/L	3.0	0.50	

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Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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 Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXA2085										
Hexavalent Chromium	BXA2085-BS1	LCS	0.048584	0.050000	mg/L	97.2		85 - 115		
QC Batch ID: BXA2086										
Hexavalent Chromium	BXA2086-BS1	LCS	0.048318	0.050000	mg/L	96.6		85 - 115		
QC Batch ID: BXB0243										
Total Recoverable Chromium	BXB0243-BS1	LCS	38.487	40.000	ug/L	96.2		85 - 115		
QC Batch ID: BXB0324										
Total Recoverable Chromium	BXB0324-BS1	LCS	37.013	40.000	ug/L	92.5		85 - 115		

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Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXA2085	Used client sample: Y - Description: EB-4-1/30/14, 01/30/2014 06:20										
Hexavalent Chromium	DUP	**1402191-02**	**0.00076900**	**0.00093800**		**mg/L**	**19.8**		**10**		**J,A02**
	MS	**1402191-02**	**0.00076900**	**0.052103**	**0.052632**	**mg/L**		**97.5**		**85 - 115**	
	MSD	**1402191-02**	**0.00076900**	**0.051592**	**0.052632**	**mg/L**	**1.0**	**96.6**	**10**	**85 - 115**	
QC Batch ID: BXA2086	Used client sample: Y - Description: EW-2, 01/30/2014 10:20										
Hexavalent Chromium	DUP	1402183-06	0.011788	0.011933		mg/L	1.2		10		
	MS	1402183-06	0.011788	0.063808	0.052632	mg/L		98.8		85 - 115	
	MSD	1402183-06	0.011788	0.062688	0.052632	mg/L	1.8	96.7	10	85 - 115	
QC Batch ID: BXB0243	Used client sample: Y - Description: EB-4-1/30/14, 01/30/2014 06:20										
Total Recoverable Chromium	DUP	1402191-02	ND	ND		ug/L			20		
	MS	1402191-02	ND	36.248	40.000	ug/L		90.6		70 - 130	
	MSD	1402191-02	ND	38.391	40.000	ug/L	5.7	96.0	20	70 - 130	
QC Batch ID: BXB0324	Used client sample: N										
Total Recoverable Chromium	DUP	1402210-01	ND	0.60500		ug/L			20		J
	MS	1402210-01	ND	36.866	40.000	ug/L		92.2		70 - 130	
	MSD	1402210-01	ND	38.647	40.000	ug/L	4.7	96.6	20	70 - 130	

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Reported: 02/14/2014 14:48
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A02	The difference between duplicate readings is less than the PQL.

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Date of Report: 02/18/2014

David Conner

Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Client Project:	1st Qtr.
BCL Project:	JPL- GW Monitoring Wells
BCL Work Order:	1402253
Invoice ID:	B166399

Enclosed are the results of analyses for samples received by the laboratory on 1/31/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton
Client Service Rep

Authorized Signature

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BC Laboratories, Inc. — Chain of Custody Form

*Required Fields

Page 1 of 1

Report To: Client:* Tidewater, Inc.
Attn:* David Conner
Street Address:* 3761 Attucks Drive
City:* Powell State:* OH Zip:* 43065
Phone#:* (614) 792 - 2897 Fax#: (614) 792 - 2897
Email Address: david.conner@tideh2o.net
Submission #: 14-62253

Project Description:* JPL-GW Monitoring
Project Code:* 1st Qtr.
Sampler (s):* Blaine Tech

Billing
Client:* Tidewater, Inc. (P.O. #1213-000-02)
Attn:* As directed by Ben Headington
Address:* 6625 Selnick Drive, Suite A
City:* Elkridge State:* MD Zip:* 21075
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*	VOCs EPA 524.2	Total Chromium 200.8 (ug/L)	Perchlorate 314.0	Hexavalent Cr6 -7196 (mg/L)	Chloride, Nitrate, Sulfate	Orthophosphate 365.1	Nitrite 353.2			
-1	TB-5-1/31/14	1-31-14	0620	AQ	X									
-2	SB-2-1/31/14		0630		X	X	X	X						
-3	EB-5-1/31/14		0640		X	X	X	X						
-4	MW-23-4		0700		X	X		X						
-5	MW-23-3		0730		X	X	X	X						
-6	MW-23-2		0800		X	X	X	X						
-7	MW-23-1		0830		X	X	X	X						
-8	MW-24-4		0950			X		X						
-9	MW-24-3		1020		X	X	X	X						
-10	MW-24-2		1050		X	X	X	X						
-11	MW-24-1	↓	1120	↓	X	X	X	X	X	X	X			

Analysis Requested

Notes

SHORT HOLDING TIME
Cr+6 NO2 NO3 OP SS
DO Cl2 BOD MBAS COT
96

Level IV

CHK BY KLQ
DISTRIBUTION MW SR
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 QC (MS/MSD)
90% Level III and 10% Level IV data validation required; Level IV Notated on C of C
NOTE: ALL ANALYSIS REQUIRED TO HAVE CALIBRATION SUMMARIES (Inform QC)

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

Cost Center: _____ Global ID: _____

	Relinquished By:	Date	Time	Received By:	Date	Time
1.		1-31-14	1900		1/31/14	1600
2.		1/31/14	1615		1/31/14	1615
3.		1/31/14	1925	SAS	1.31.14	1925

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

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Chain of Custody and Cooler Receipt Form for 1402253 Page 2 of 3

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 15 07/01/13 Page 1 Of 2

Submission #: 14-02253

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Federal Express ☐ UPS ☐ Hand Delivery	Ice Chest ☑ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____	Other ☐ (Specify)_____	

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

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

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

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: PE Thermometer ID: 207 Date/Time 1/31/14 1925

Temperature: (A) 2.0 °C / (C) 2.0 °C Analyst Init MT

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL		B	B		B	B	B		B	B
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS		C	C	A	C	C	C	A	C	C
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A (1)									
40ml VOA VIAL	( )	A (3)	A (3)	( )	A (3)	A (3)	A (3)	( )	A (3)	A (3)
QT EPA 413.1, 413.2, 418.1										
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										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: unpreserved not received for cr6 on -4 or -8.

Sample Numbering Completed By: MT Date/Time: 1/31/14 1940

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Chain of Custody and Cooler Receipt Form for 1402253 Page 3 of 3

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 15 07/01/13 Page 2 Of 2

Submission #: 14-02253

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery
BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

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

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

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: PE Thermometer ID: 207

Temperature: (A) 20 °C / (C) 20 °C

Date/Time 1/31/14 1925

Analyst Init JJ

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	B									
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS	C									
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A (3)	( )	( )	( )	( )	( )	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1										
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										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____

Sample Numbering Completed By: JJ Date/Time: 1/31/14 1940

[S:\MyDOCS\WordPerfect\LAB DOCS\FORMS\SAMREC15]

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1402253-01	**COC Number:**	---	**Receive Date:**	01/31/2014 19:25
	Project Number:	JPL-GW	**Sampling Date:**	01/31/2014 06:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	TB-5-1/31/14	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Blank Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): TB-5-1/31/14	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402253-02	**COC Number:**	---	**Receive Date:**	01/31/2014 19:25
	Project Number:	JPL-GW	**Sampling Date:**	01/31/2014 06:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	SB-2-1/31/14	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Blank Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): SB-2-1/31/14	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402253-03	**COC Number:**	---	**Receive Date:**	01/31/2014 19:25
	Project Number:	JPL-GW	**Sampling Date:**	01/31/2014 06:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	EB-5-1/31/14	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Blank Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): EB-5-1/31/14	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1402253-04	**COC Number:**	---	**Receive Date:** 01/31/2014 19:25
	Project Number:	JPL-GW	**Sampling Date:** 01/31/2014 07:00
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-23-4	**Lab Matrix:** Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:** Blank Water
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): MW-23-4
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1402253-05	**COC Number:**	---	**Receive Date:** 01/31/2014 19:25
	Project Number:	JPL-GW	**Sampling Date:** 01/31/2014 07:30
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-23-3	**Lab Matrix:** Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:** Blank Water
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): MW-23-3
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1402253-06	**COC Number:**	---	**Receive Date:** 01/31/2014 19:25
	Project Number:	JPL-GW	**Sampling Date:** 01/31/2014 08:00
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-23-2	**Lab Matrix:** Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:** Blank Water
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): MW-23-2
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1402253-07	**COC Number:**	---	**Receive Date:** 01/31/2014 19:25
	Project Number:	JPL-GW	**Sampling Date:** 01/31/2014 08:30
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-23-1	**Lab Matrix:** Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:** Blank Water
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): MW-23-1
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1402253-08	**COC Number:**	---	**Receive Date:** 01/31/2014 19:25
	Project Number:	JPL-GW	**Sampling Date:** 01/31/2014 09:50
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-24-4	**Lab Matrix:** Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:** Blank Water
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): MW-24-4
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1402253-09	**COC Number:**	---	**Receive Date:** 01/31/2014 19:25
	Project Number:	JPL-GW	**Sampling Date:** 01/31/2014 10:20
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-24-3	**Lab Matrix:** Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:** Blank Water
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): MW-24-3
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1402253-10	**COC Number:**	---	**Receive Date:**	01/31/2014 19:25
	Project Number:	JPL-GW	**Sampling Date:**	01/31/2014 10:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-24-2	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Blank Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-24-2	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402253-11	**COC Number:**	---	**Receive Date:**	01/31/2014 19:25
	Project Number:	JPL-GW	**Sampling Date:**	01/31/2014 11:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-24-1	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Blank Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-24-1	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402253-01 | **Client Sample Name:** JPL-GW, TB-5-1/31/14, 1/31/2014 6:20:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402253-01 | **Client Sample Name:** JPL-GW, TB-5-1/31/14, 1/31/2014 6:20:00AM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	**15**	**ug/L**	**0.50**	**0.48**	**EPA-524.2**	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402253-01 | **Client Sample Name:** JPL-GW, TB-5-1/31/14, 1/31/2014 6:20:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 20:34	MGC	MS-V5	1	BXB0135

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Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402253-01 | **Client Sample Name:** JPL-GW, TB-5-1/31/14, 1/31/2014 6:20:00AM, 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
1	EPA-524.2	02/06/14	02/06/14 20:34	MGC	MS-V5	1	BXB0135

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Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402253-02 | **Client Sample Name:** JPL-GW, SB-2-1/31/14, 1/31/2014 6:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402253-02 | **Client Sample Name:** JPL-GW, SB-2-1/31/14, 1/31/2014 6:30:00AM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	**0.13**	**ug/L**	**0.50**	**0.093**	**EPA-524.2**	ND	**J**	1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402253-02 | **Client Sample Name:** JPL-GW, SB-2-1/31/14, 1/31/2014 6:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	**0.30**	**ug/L**	**0.50**	**0.28**	**EPA-524.2**	ND	**J**	1
o-Xylene	**0.27**	**ug/L**	**0.50**	**0.082**	**EPA-524.2**	ND	**J**	1
1,2-Dichloroethane-d4 (Surrogate)	97.4	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 20:56	MGC	MS-V5	1	BXB0135

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Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402253-02 | **Client Sample Name:** JPL-GW, SB-2-1/31/14, 1/31/2014 6:30:00AM, 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 20:56	MGC	MS-V5	1	BXB0135

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Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402253-02 | **Client Sample Name:** JPL-GW, SB-2-1/31/14, 1/31/2014 6:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/12/14	02/12/14 20:49	LD1	IC6	1	BXB0970

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Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402253-02 | **Client Sample Name:** JPL-GW, SB-2-1/31/14, 1/31/2014 6:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/31/14	01/31/14 22:48	OLH	KONE-1	1	BXB0120
2	EPA-200.8	02/06/14	02/10/14 15:47	SRM	PE-EL2	1	BXB0326

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Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402253-03 | **Client Sample Name:** JPL-GW, EB-5-1/31/14, 1/31/2014 6:40:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402253-03 | **Client Sample Name:** JPL-GW, EB-5-1/31/14, 1/31/2014 6:40:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	**0.14**	**ug/L**	**0.50**	**0.093**	**EPA-524.2**	ND	**J**	1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402253-03 | **Client Sample Name:** JPL-GW, EB-5-1/31/14, 1/31/2014 6:40:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	**0.30**	**ug/L**	**0.50**	**0.28**	**EPA-524.2**	ND	**J**	1
o-Xylene	**0.24**	**ug/L**	**0.50**	**0.082**	**EPA-524.2**	ND	**J**	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)	97.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 21:19	MGC	MS-V5	1	BXB0135

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402253-03 | **Client Sample Name:** JPL-GW, EB-5-1/31/14, 1/31/2014 6:40:00AM, Blaine Tech

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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 21:19	MGC	MS-V5	1	BXB0135

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402253-03 | **Client Sample Name:** JPL-GW, EB-5-1/31/14, 1/31/2014 6:40:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/12/14	02/12/14 21:44	LD1	IC6	1	BXB0970

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Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402253-03 | **Client Sample Name:** JPL-GW, EB-5-1/31/14, 1/31/2014 6:40:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**0.00070**	**mg/L**	**0.0020**	**0.00070**	**EPA-7196**	ND	**J**	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/31/14	01/31/14 22:48	OLH	KONE-1	1	BXB0120
2	EPA-200.8	02/06/14	02/10/14 16:21	SRM	PE-EL2	1	BXB0326

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Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402253-04 | **Client Sample Name:** JPL-GW, MW-23-4, 1/31/2014 7:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Chromium	**2.6**	**ug/L**	**3.0**	**0.50**	**EPA-200.8**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	02/06/14	02/10/14 16:24	SRM	PE-EL2	1	BXB0326

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Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402253-05 | **Client Sample Name:** JPL-GW, MW-23-3, 1/31/2014 7:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402253-05 | **Client Sample Name:** JPL-GW, MW-23-3, 1/31/2014 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402253-05 | **Client Sample Name:** JPL-GW, MW-23-3, 1/31/2014 7:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 21:41	MGC	MS-V5	1	BXB0135

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402253-05 | **Client Sample Name:** JPL-GW, MW-23-3, 1/31/2014 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 21:41	MGC	MS-V5	1	BXB0135

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Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402253-05 | **Client Sample Name:** JPL-GW, MW-23-3, 1/31/2014 7:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**2.8**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/12/14	02/12/14 22:25	LD1	IC6	1	BXB0970

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Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402253-05 | **Client Sample Name:** JPL-GW, MW-23-3, 1/31/2014 7:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**0.0034**	**mg/L**	**0.0020**	**0.00070**	**EPA-7196**	ND		1
Total Recoverable Chromium	**3.1**	**ug/L**	**3.0**	**0.50**	**EPA-200.8**	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/31/14	01/31/14 23:12	OLH	KONE-1	1	BXB0120
2	EPA-200.8	02/06/14	02/10/14 16:27	SRM	PE-EL2	1	BXB0326

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Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402253-06 | **Client Sample Name:** JPL-GW, MW-23-2, 1/31/2014 8:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.53**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	**0.22**	**ug/L**	**0.50**	**0.11**	**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	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402253-06 | **Client Sample Name:** JPL-GW, MW-23-2, 1/31/2014 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	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**	**0.13**	**EPA-524.2**	ND	**J**	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**1.1**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402253-06 | **Client Sample Name:** JPL-GW, MW-23-2, 1/31/2014 8:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	100	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 22:04	MGC	MS-V5	1	BXB0135

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402253-06 | **Client Sample Name:** JPL-GW, MW-23-2, 1/31/2014 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
1	EPA-524.2	02/06/14	02/06/14 22:04	MGC	MS-V5	1	BXB0135

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Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402253-06 | **Client Sample Name:** JPL-GW, MW-23-2, 1/31/2014 8:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**4.6**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/12/14	02/12/14 22:39	LD1	IC6	1	BXB0970

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Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402253-06 | **Client Sample Name:** JPL-GW, MW-23-2, 1/31/2014 8:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**0.0017**	**mg/L**	**0.0020**	**0.00070**	**EPA-7196**	ND	**J**	1
Total Recoverable Chromium	**1.2**	**ug/L**	**3.0**	**0.50**	**EPA-200.8**	ND	**J**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/31/14	01/31/14 23:12	OLH	KONE-1	1	BXB0120
2	EPA-200.8	02/06/14	02/10/14 16:30	SRM	PE-EL2	1	BXB0326

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Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402253-07 | **Client Sample Name:** JPL-GW, MW-23-1, 1/31/2014 8:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.52**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	**0.12**	**ug/L**	**0.50**	**0.11**	**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	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402253-07 | **Client Sample Name:** JPL-GW, MW-23-1, 1/31/2014 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**0.45**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**3.5**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402253-07 | **Client Sample Name:** JPL-GW, MW-23-1, 1/31/2014 8:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	96.3	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 22:26	MGC	MS-V5	1	BXB0135

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Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402253-07 | **Client Sample Name:** JPL-GW, MW-23-1, 1/31/2014 8:30:00AM, 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 22:26	MGC	MS-V5	1	BXB0135

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Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402253-07 | **Client Sample Name:** JPL-GW, MW-23-1, 1/31/2014 8:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**3.7**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/12/14	02/12/14 22:53	LD1	IC6	1	BXB0970

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Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402253-07 | **Client Sample Name:** JPL-GW, MW-23-1, 1/31/2014 8:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	**1.6**	**ug/L**	**3.0**	**0.50**	**EPA-200.8**	ND	**J**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/31/14	01/31/14 22:48	OLH	KONE-1	1	BXB0120
2	EPA-200.8	02/06/14	02/10/14 16:34	SRM	PE-EL2	1	BXB0326

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Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402253-08 | **Client Sample Name:** JPL-GW, MW-24-4, 1/31/2014 9:50:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	02/06/14	02/10/14 16:37	SRM	PE-EL2	1	BXB0326

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Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402253-09 | **Client Sample Name:** JPL-GW, MW-24-3, 1/31/2014 10:20:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	**0.11**	**ug/L**	**0.50**	**0.11**	**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	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402253-09 | **Client Sample Name:** JPL-GW, MW-24-3, 1/31/2014 10:20:00AM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**0.13**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402253-09 | **Client Sample Name:** JPL-GW, MW-24-3, 1/31/2014 10:20:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	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)	92.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 22:49	MGC	MS-V5	1	BXB0135

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Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402253-09 | **Client Sample Name:** JPL-GW, MW-24-3, 1/31/2014 10:20:00AM, 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
1	EPA-524.2	02/06/14	02/06/14 22:49	MGC	MS-V5	1	BXB0135

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Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402253-09 | **Client Sample Name:** JPL-GW, MW-24-3, 1/31/2014 10:20:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/12/14	02/12/14 23:07	LD1	IC6	1	BXB0970

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Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402253-09 | **Client Sample Name:** JPL-GW, MW-24-3, 1/31/2014 10:20:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/31/14	01/31/14 22:51	OLH	KONE-1	1	BXB0120
2	EPA-200.8	02/06/14	02/10/14 16:40	SRM	PE-EL2	1	BXB0326

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Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402253-10 | **Client Sample Name:** JPL-GW, MW-24-2, 1/31/2014 10:50:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	**0.72**	**ug/L**	**0.50**	**0.14**	**EPA-524.2**	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.71**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	**0.13**	**ug/L**	**0.50**	**0.11**	**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	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402253-10 | **Client Sample Name:** JPL-GW, MW-24-2, 1/31/2014 10:50:00AM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**0.14**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402253-10 | **Client Sample Name:** JPL-GW, MW-24-2, 1/31/2014 10:50:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 23:12	MGC	MS-V5	1	BXB0135

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Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402253-10 | **Client Sample Name:** JPL-GW, MW-24-2, 1/31/2014 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 23:12	MGC	MS-V5	1	BXB0135

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Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402253-10 | **Client Sample Name:** JPL-GW, MW-24-2, 1/31/2014 10:50:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**8.0**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/12/14	02/12/14 23:21	LD1	IC6	1	BXB0970

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Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402253-10 | **Client Sample Name:** JPL-GW, MW-24-2, 1/31/2014 10:50:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**0.0021**	**mg/L**	**0.0020**	**0.00070**	**EPA-7196**	ND		1
Total Recoverable Chromium	**2.6**	**ug/L**	**3.0**	**0.50**	**EPA-200.8**	ND	**J**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/31/14	01/31/14 22:51	OLH	KONE-1	1	BXB0120
2	EPA-200.8	02/06/14	02/10/14 16:43	SRM	PE-EL2	1	BXB0326

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Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402253-11 | **Client Sample Name:** JPL-GW, MW-24-1, 1/31/2014 11:20:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	**0.96**	**ug/L**	**0.50**	**0.14**	**EPA-524.2**	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	**0.70**	**ug/L**	**0.50**	**0.18**	**EPA-524.2**	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**7.6**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402253-11 | **Client Sample Name:** JPL-GW, MW-24-1, 1/31/2014 11:20:00AM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**1.2**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	**0.17**	**ug/L**	**0.50**	**0.15**	**EPA-524.2**	ND	**J**	1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402253-11 | **Client Sample Name:** JPL-GW, MW-24-1, 1/31/2014 11:20:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	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)	90.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 23:34	MGC	MS-V5	1	BXB0135

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402253-11 | **Client Sample Name:** JPL-GW, MW-24-1, 1/31/2014 11:20:00AM, 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
1	EPA-524.2	02/06/14	02/06/14 23:34	MGC	MS-V5	1	BXB0135

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Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402253-11 | **Client Sample Name:** JPL-GW, MW-24-1, 1/31/2014 11:20:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride	**79**	**mg/L**	**0.50**	**0.067**	**EPA-300.0**	ND		1
Nitrate as N	**1.6**	**mg/L**	**0.10**	**0.025**	**EPA-300.0**	ND		1
Sulfate	**42**	**mg/L**	**1.0**	**0.18**	**EPA-300.0**	ND		1
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		2
Perchlorate	**160**	**ug/L**	**40**	**4.5**	**EPA-314.0**	ND	**A01**	3
ortho-Phosphate as P	ND	mg/L	0.020	0.0040	EPA-365.1	ND		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	02/01/14	02/01/14 01:21	LD1	IC2	1	BXB0034
2	EPA-353.2	01/31/14	01/31/14 23:45	OLH	KONE-1	1	BXB0122
3	EPA-314.0	02/12/14	02/13/14 14:12	LD1	IC6	10	BXB0970
4	EPA-365.1	02/01/14	02/01/14 00:09	OLH	KONE-1	1	BXB0121

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Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402253-11 | **Client Sample Name:** JPL-GW, MW-24-1, 1/31/2014 11:20:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	**16**	**ug/L**	**3.0**	**0.50**	**EPA-200.8**	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	01/31/14	01/31/14 22:51	OLH	KONE-1	1	BXB0120
2	EPA-200.8	02/06/14	02/10/14 16:46	SRM	PE-EL2	1	BXB0326

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Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0135						
Benzene	BXB0135-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXB0135-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXB0135-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXB0135-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXB0135-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXB0135-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXB0135-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXB0135-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXB0135-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXB0135-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXB0135-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXB0135-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXB0135-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXB0135-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXB0135-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXB0135-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BXB0135-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXB0135-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXB0135-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXB0135-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXB0135-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXB0135-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXB0135-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXB0135-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXB0135-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXB0135-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXB0135-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXB0135-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXB0135-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXB0135-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXB0135-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXB0135-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXB0135-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXB0135-BLK1	ND	ug/L	0.50	0.14	

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Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0135						
trans-1,3-Dichloropropene	BXB0135-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXB0135-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXB0135-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXB0135-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXB0135-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXB0135-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXB0135-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXB0135-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXB0135-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXB0135-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXB0135-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BXB0135-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BXB0135-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXB0135-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXB0135-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXB0135-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BXB0135-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXB0135-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXB0135-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXB0135-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXB0135-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXB0135-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXB0135-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXB0135-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXB0135-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXB0135-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXB0135-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXB0135-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXB0135-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXB0135-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXB0135-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXB0135-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXB0135-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXB0135-BLK1	ND	ug/L	4.0	0.97	

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Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0135						
Ethyl t-butyl ether	BXB0135-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXB0135-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXB0135-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXB0135-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXB0135-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXB0135-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXB0135-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXB0135-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXB0135-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXB0135-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXB0135-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXB0135-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXB0135-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	**BXB0135-BLK1**	**100**	%	**75 - 125 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**BXB0135-BLK1**	**97.5**	%	**80 - 120 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**BXB0135-BLK1**	**87.7**	%	**80 - 120 (LCL - UCL)**		

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Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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 Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXB0135										
Benzene	BXB0135-BS1	LCS	23.340	25.000	ug/L	93.4		70 - 130		
Bromodichloromethane	BXB0135-BS1	LCS	25.700	25.000	ug/L	103		70 - 130		
Chlorobenzene	BXB0135-BS1	LCS	25.140	25.000	ug/L	101		70 - 130		
Chloroethane	BXB0135-BS1	LCS	24.810	25.000	ug/L	99.2		70 - 130		
1,4-Dichlorobenzene	BXB0135-BS1	LCS	26.520	25.000	ug/L	106		70 - 130		
1,1-Dichloroethane	BXB0135-BS1	LCS	23.660	25.000	ug/L	94.6		70 - 130		
1,1-Dichloroethene	BXB0135-BS1	LCS	25.230	25.000	ug/L	101		70 - 130		
Toluene	BXB0135-BS1	LCS	23.800	25.000	ug/L	95.2		70 - 130		
Trichloroethene	BXB0135-BS1	LCS	25.000	25.000	ug/L	100		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXB0135-BS1	LCS	9.8500	10.000	ug/L	98.5		75 - 125		
Toluene-d8 (Surrogate)	BXB0135-BS1	LCS	9.6000	10.000	ug/L	96.0		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXB0135-BS1	LCS	10.510	10.000	ug/L	105		80 - 120		

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Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXB0135	Used client sample: Y - Description: MW-14-1, 01/27/2014 13:50										
Benzene	MS	1401914-12	ND	27.250	25.000	ug/L		109		70 - 130	
	MSD	1401914-12	ND	25.550	25.000	ug/L	6.4	102	20	70 - 130	
Bromodichloromethane	MS	1401914-12	ND	29.310	25.000	ug/L		117		70 - 130	
	MSD	1401914-12	ND	28.130	25.000	ug/L	4.1	113	20	70 - 130	
Chlorobenzene	MS	1401914-12	ND	28.340	25.000	ug/L		113		70 - 130	
	MSD	1401914-12	ND	26.730	25.000	ug/L	5.8	107	20	70 - 130	
Chloroethane	MS	1401914-12	ND	23.940	25.000	ug/L		95.8		70 - 130	
	MSD	1401914-12	ND	27.560	25.000	ug/L	14.1	110	20	70 - 130	
1,4-Dichlorobenzene	MS	1401914-12	ND	30.470	25.000	ug/L		122		70 - 130	
	MSD	1401914-12	ND	29.410	25.000	ug/L	3.5	118	20	70 - 130	
1,1-Dichloroethane	MS	1401914-12	0.14000	27.760	25.000	ug/L		110		70 - 130	
	MSD	1401914-12	0.14000	26.260	25.000	ug/L	5.6	104	20	70 - 130	
1,1-Dichloroethene	MS	1401914-12	ND	29.590	25.000	ug/L		118		70 - 130	
	MSD	1401914-12	ND	27.590	25.000	ug/L	7.0	110	20	70 - 130	
Toluene	MS	1401914-12	ND	27.830	25.000	ug/L		111		70 - 130	
	MSD	1401914-12	ND	26.180	25.000	ug/L	6.1	105	20	70 - 130	
Trichloroethene	MS	1401914-12	3.3900	29.670	25.000	ug/L		105		70 - 130	
	MSD	1401914-12	3.3900	28.490	25.000	ug/L	4.1	100	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1401914-12	ND	10.710	10.000	ug/L		107		75 - 125	
	MSD	1401914-12	ND	10.020	10.000	ug/L	6.7	100		75 - 125	
Toluene-d8 (Surrogate)	MS	1401914-12	ND	9.9700	10.000	ug/L		99.7		80 - 120	
	MSD	1401914-12	ND	9.8300	10.000	ug/L	1.4	98.3		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1401914-12	ND	10.600	10.000	ug/L		106		80 - 120	
	MSD	1401914-12	ND	10.240	10.000	ug/L	3.5	102		80 - 120	

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Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0135						
Chloroacetonitrile	BXB0135-BLK1	0	ug/L			
1-Chlorobutane	BXB0135-BLK1	0	ug/L			
1,1-Dichloropropanone	BXB0135-BLK1	0	ug/L			
Methyl acrylate	BXB0135-BLK1	0	ug/L			
Nitrobenzene	BXB0135-BLK1	0	ug/L			
2-Nitropropane	BXB0135-BLK1	0	ug/L			

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Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0034						
Chloride	BXB0034-BLK1	ND	mg/L	0.50	0.067	
Nitrate as N	BXB0034-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXB0034-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXB0121						
ortho-Phosphate as P	BXB0121-BLK1	ND	mg/L	0.020	0.0040	
QC Batch ID: BXB0122						
Nitrite as N	BXB0122-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXB0970						
Perchlorate	BXB0970-BLK1	ND	ug/L	4.0	0.45	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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 Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXB0034										
Chloride	BXB0034-BS1	LCS	51.392	50.000	mg/L	103		90 - 110		
Nitrate as N	BXB0034-BS1	LCS	5.0320	5.0000	mg/L	101		90 - 110		
Sulfate	BXB0034-BS1	LCS	101.85	100.00	mg/L	102		90 - 110		
QC Batch ID: BXB0121										
ortho-Phosphate as P	BXB0121-BS1	LCS	0.18597	0.20000	mg/L	93.0		90 - 110		
QC Batch ID: BXB0122										
Nitrite as N	BXB0122-BS1	LCS	0.50350	0.50000	mg/L	101		90 - 110		
QC Batch ID: BXB0970										
Perchlorate	BXB0970-BS1	LCS	10.941	10.000	ug/L	109		85 - 115		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXB0034	Used client sample: Y - Description: MW-24-1, 01/31/2014 11:20										
Chloride	DUP	1402253-11	78.765	78.858		mg/L	0.1		10		
	MS	1402253-11	78.765	134.28	50.505	mg/L		110		80 - 120	
	MSD	1402253-11	78.765	134.36	50.505	mg/L	0.1	110	10	80 - 120	
Nitrate as N	DUP	1402253-11	1.5570	1.6310		mg/L	4.6		10		
	MS	1402253-11	1.5570	6.9061	5.0505	mg/L		106		80 - 120	
	MSD	1402253-11	1.5570	6.9273	5.0505	mg/L	0.3	106	10	80 - 120	
Sulfate	DUP	1402253-11	42.057	41.765		mg/L	0.7		10		
	MS	1402253-11	42.057	154.38	101.01	mg/L		111		80 - 120	
	MSD	1402253-11	42.057	154.37	101.01	mg/L	0.0	111	10	80 - 120	
QC Batch ID: BXB0121	Used client sample: Y - Description: MW-24-1, 01/31/2014 11:20										
ortho-Phosphate as P	DUP	1402253-11	ND	ND		mg/L			10		
	MS	1402253-11	ND	0.19960	0.21053	mg/L		94.8		90 - 110	
	MSD	1402253-11	ND	0.20080	0.21053	mg/L	0.6	95.4	10	90 - 110	
QC Batch ID: BXB0122	Used client sample: Y - Description: MW-24-1, 01/31/2014 11:20										
Nitrite as N	DUP	1402253-11	ND	ND		mg/L			10		
	MS	1402253-11	ND	0.52816	0.52632	mg/L		100		90 - 110	
	MSD	1402253-11	ND	0.53055	0.52632	mg/L	0.5	101	10	90 - 110	
QC Batch ID: BXB0970	Used client sample: Y - Description: SB-2-1/31/14, 01/31/2014 06:30										
Perchlorate	DUP	1402253-02	ND	ND		ug/L			15		
	MS	1402253-02	ND	10.581	10.101	ug/L		105		80 - 120	
	MSD	1402253-02	ND	10.620	10.101	ug/L	0.4	105	15	80 - 120	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0120						
Hexavalent Chromium	BXB0120-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BXB0326						
Total Recoverable Chromium	BXB0326-BLK1	ND	ug/L	3.0	0.50	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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 Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXB0120										
Hexavalent Chromium	BXB0120-BS1	LCS	0.052455	0.050000	mg/L	105		85 - 115		
QC Batch ID: BXB0326										
Total Recoverable Chromium	BXB0326-BS1	LCS	41.862	40.000	ug/L	105		85 - 115		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXB0120	Used client sample: Y - Description: SB-2-1/31/14, 01/31/2014 06:30										
Hexavalent Chromium	DUP	1402253-02	ND	ND		mg/L			10		
	MS	1402253-02	ND	0.053638	0.052632	mg/L		102		85 - 115	
	MSD	1402253-02	ND	0.053918	0.052632	mg/L	0.5	102	10	85 - 115	
QC Batch ID: BXB0326	Used client sample: Y - Description: SB-2-1/31/14, 01/31/2014 06:30										
Total Recoverable Chromium	DUP	1402253-02	ND	ND		ug/L			20		
	MS	1402253-02	ND	41.108	40.000	ug/L		103		70 - 130	
	MSD	1402253-02	ND	40.922	40.000	ug/L	0.5	102	20	70 - 130	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 11:05
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.

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BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 02/18/2014

David Conner

Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Client Project:	1st Qtr.
BCL Project:	JPL- GW Monitoring Wells
BCL Work Order:	1402364
Invoice ID:	B166442

Enclosed are the results of analyses for samples received by the laboratory on 2/3/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton
Client Service Rep

Authorized Signature

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BC Laboratories, Inc. — Chain of Custody Form

*Required Fields

Page 1 of 2

Report To:
Client:* Tidewater, Inc.
Attn:* David Conner
Street Address:* 3761 Attucks Drive
City:* Powell State:* OH Zip:* 43065
Phone#:* (614) 792 - 2897 Fax#: (614) 792 - 2897
Email Address: david.conner@tideh2o.net
Submission #: 14-02364

Project Description:* JPL-GW Monitoring
Project Code:* 1st Qtr.
Sampler (s):* Blaine Tech

Billing
Client:* Tidewater, Inc. (P.O. #1213-000-02)
Attn:* As directed by Ben Headington
Address:* 6625 Selnick Drive, Suite A
City:* Elkridge State:* MD Zip:* 21075
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*	VOCs EPA 524.2	Total Chromium 200.8 (ug/L)	Perchlorate 314.0	Hexavalent Cr6 -7196 (mg/L)	Chloride, Nitrate, Sulfate	Orthophosphate 365.1	Nitrite 353.2			
-1	TB-6-2/3/14	2-3-14	0645	4Q	X									
-2	EB-6-2/3/14		0700		X	X	X	X						
-3	MW-19-5		0730		X		X							
-4	MW-19-4		0800		X		X							
-5	MW-19-3		0830		X		X							
-6	MW-19-2		0900		X		X							
-7	MW-19-1		0930		X		X							
-8	MW-21-5		1040		X	X	X	X						
-9	MW-21-4		1115		X	X	X	X						
-10	MW-21-3		1150		X	X	X	X						
-11	MW-21-2	↓	1225	↓	X	X	X	X						

Analysis Requested

SHORT HOLDING TIME
Cr^{+6} NO_2 NO_3 OP SS
DO Cl_2 BOD MBAS COT
CHK BY DISTRIBUTION
SUB-OUT

Notes

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

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

Lab TAT Approval: _____ *Additional Charges May Apply

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

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

Cost Center: _____ Global ID: _____

	Date	Time		Date	Time
1. Relinquished By:	2-3-14	1520	1.Received By: Nicole	2/3/14	1520
2. Relinquished By: Nicole	2/3/14	1610	2.Received By:	2-3-14	1610
3. Relinquished By:	2-3-14	1925	3.Received By: SAS	2.3.14	1925

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BC Laboratories, Inc.

Chain of Custody Form

*Required Fields

Page 2 of 2

Report To: Client:* Tidewater, Inc.	Project Description:* JPL-GW Monitoring
Attn:* David Conner	
Street Address:* 3761 Attucks Drive	Project Code:* 1st Qtr.
City:* Powell State:* OH Zip:* 43065	
Phone#:* (614) 792 - 2897 Fax#: (614) 792 - 2897	Sampler (s):* Blaine Tech
Email Address: david.conner@tideh2o.net	
Submission #: 14 02364	

Sample #	Sample Description	Date	Time	Matrix*	VOCs EPA 524.2	Total Chromium 200.8 (ug/L)	Perchlorate 314.0	Hexavalent Cr6 -7196 (mg/L)	Chloride, Nitrate, Sulfate	Orthophosphate 365.1	Nitrite 353.2
-12	MW-21-1	2-3-14	1320	AQ	X	X	X	X			

Analysis Requested

Billing

Client:* Tidewater, Inc. (P.O. #1213-000-02)
Attn:* As directed by Ben Headington
Address:* 6625 Selnick Drive, Suite A
City:* Elkridge State:* MD Zip:* 21075
Are there any tests with holding times? less than or equal to 48 hours? ☑ Yes ☐ No
*Standard Turnaround = 10

Notes

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

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

Lab TAT Approval: _____ *Additional Charges May Apply

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

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

Cost Center: _____ Global ID: _____

	Date	Time		Date	Time
1. Relinquished By:	2-3-14	1520	1.Received By: Nicole	2/3/14	1520
2. Relinquished By: Nicole	2/3/14	1610	2.Received By:	2-3-14	1610
3. Relinquished By:	2-3-14	1925	3.Received By: SAS	2.3.14	1925

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

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Chain of Custody and Cooler Receipt Form for 1402364 Page 3 of 4

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 15 07/01/13 Page 1 Of 2

Submission #: 14-02364

SHIPPING INFORMATION
Federal Express ☐ UPS ☐ Hand Delivery
BC Lab Field Service ☑ Other ☐ (Specify)_____

SHIPPING CONTAINER
Ice Chest ☑ None ☐ Box ☐
Other ☐ (Specify)_____

FREE LIQUID
YES ☐ NO ☐

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

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

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

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: PE Thermometer ID: 207 Date/Time 2-3-14 1925

Temperature: (A) 1.6 °C / (C) 1.6 °C Analyst Init MJ

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL		B	B	B	B	B	B	B	B	B
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS		C						C	C	C
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A1									
40ml VOA VIAL		A3	A3	A3	A3	A3	A3	A3	A3	A3
QT EPA 413.1, 413.2, 418.1										
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										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____
Sample Numbering Completed By: MJ Date/Time: 2/3/14 1940

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Chain of Custody and Cooler Receipt Form for 1402364 Page 4 of 4

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 15 07/01/13 Page 2 Of 2

Submission #: 14-02364

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Federal Express ☐ UPS ☐ Hand Delivery	Ice Chest ☑ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____	Other ☐ (Specify)_____	

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

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

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

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: PE Thermometer ID: 207 Date/Time 2-3-14 1925

Temperature: (A) 1.6 °C / (C) 1.6 °C Analyst Init MM

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	B	B								
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS	C	C								
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A3	A3	( )	( )	( )	( )	( )	( )	( )	( )
QT EPA 413.1, 413.2, 418.1										
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										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:_____

Sample Numbering Completed By: MM Date/Time: 2/3/14 1940

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1402364-01	**COC Number:**	---	**Receive Date:**	02/03/2014 19:25
	Project Number:	JPL-GW	**Sampling Date:**	02/03/2014 06:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	TB-6-2/3/14	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Blank Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): TB-6-2/3/14	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402364-02	**COC Number:**	---	**Receive Date:**	02/03/2014 19:25
	Project Number:	JPL-GW	**Sampling Date:**	02/03/2014 07:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	EB-6-2/3/14	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): EB-6-2/3/14	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402364-03	**COC Number:**	---	**Receive Date:**	02/03/2014 19:25
	Project Number:	JPL-GW	**Sampling Date:**	02/03/2014 07:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-19-5	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-19-5	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information		
1402364-04	**COC Number:**	---	**Receive Date:** 02/03/2014 19:25
	Project Number:	JPL-GW	**Sampling Date:** 02/03/2014 08:00
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-19-4	**Lab Matrix:** Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:** Water
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): MW-19-4
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1402364-05	**COC Number:**	---	**Receive Date:** 02/03/2014 19:25
	Project Number:	JPL-GW	**Sampling Date:** 02/03/2014 08:30
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-19-3	**Lab Matrix:** Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:** Water
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): MW-19-3
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:
1402364-06	**COC Number:**	---	**Receive Date:** 02/03/2014 19:25
	Project Number:	JPL-GW	**Sampling Date:** 02/03/2014 09:00
	Sampling Location:	---	**Sample Depth:** ---
	Sampling Point:	MW-19-2	**Lab Matrix:** Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:** Water
			Delivery Work Order:
			Global ID: 0000000000
			Location ID (FieldPoint): MW-19-2
			Matrix: W
			Sample QC Type (SACode): CS
			Cooler ID:

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Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1402364-07	**COC Number:**	---	**Receive Date:**	02/03/2014 19:25
	Project Number:	JPL-GW	**Sampling Date:**	02/03/2014 09:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-19-1	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-19-1	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402364-08	**COC Number:**	---	**Receive Date:**	02/03/2014 19:25
	Project Number:	JPL-GW	**Sampling Date:**	02/03/2014 10:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-21-5	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-21-5	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402364-09	**COC Number:**	---	**Receive Date:**	02/03/2014 19:25
	Project Number:	JPL-GW	**Sampling Date:**	02/03/2014 11:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-21-4	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-21-4	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

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Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1402364-10	**COC Number:**	---	**Receive Date:**	02/03/2014 19:25
	Project Number:	JPL-GW	**Sampling Date:**	02/03/2014 11:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-21-3	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-21-3	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402364-11	**COC Number:**	---	**Receive Date:**	02/03/2014 19:25
	Project Number:	JPL-GW	**Sampling Date:**	02/03/2014 12:25
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-21-2	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-21-2	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402364-12	**COC Number:**	---	**Receive Date:**	02/03/2014 19:25
	Project Number:	JPL-GW	**Sampling Date:**	02/03/2014 13:20
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-21-1	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-21-1	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

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Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402364-01 | **Client Sample Name:** JPL-GW, TB-6-2/3/14, 2/3/2014 6:45:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402364-01 | **Client Sample Name:** JPL-GW, TB-6-2/3/14, 2/3/2014 6:45:00AM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	**15**	**ug/L**	**0.50**	**0.48**	**EPA-524.2**	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402364-01 | **Client Sample Name:** JPL-GW, TB-6-2/3/14, 2/3/2014 6:45:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/06/14 23:57	MGC	MS-V5	1	BXB0135

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Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402364-01 | **Client Sample Name:** JPL-GW, TB-6-2/3/14, 2/3/2014 6:45:00AM, 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
1	EPA-524.2	02/06/14	02/06/14 23:57	MGC	MS-V5	1	BXB0135

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Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402364-02 | **Client Sample Name:** JPL-GW, EB-6-2/3/14, 2/3/2014 7:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402364-02 | **Client Sample Name:** JPL-GW, EB-6-2/3/14, 2/3/2014 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	**0.12**	**ug/L**	**0.50**	**0.093**	**EPA-524.2**	ND	**J**	1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402364-02 | **Client Sample Name:** JPL-GW, EB-6-2/3/14, 2/3/2014 7:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	**0.21**	**ug/L**	**0.50**	**0.082**	**EPA-524.2**	ND	**J**	1
1,2-Dichloroethane-d4 (Surrogate)	97.4	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/07/14 00:19	MGC	MS-V5	1	BXB0135

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Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402364-02 | **Client Sample Name:** JPL-GW, EB-6-2/3/14, 2/3/2014 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
1	EPA-524.2	02/06/14	02/07/14 00:19	MGC	MS-V5	1	BXB0135

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Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402364-02 | **Client Sample Name:** JPL-GW, EB-6-2/3/14, 2/3/2014 7:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/14/14	02/14/14 16:55	TMS	IC6	1	BXB1090

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Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402364-02 | **Client Sample Name:** JPL-GW, EB-6-2/3/14, 2/3/2014 7:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	02/03/14	02/03/14 23:03	OLH	KONE-1	1	BXB0145
2	EPA-200.8	02/06/14	02/07/14 12:27	SRM	PE-EL2	1	BXB0324

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Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402364-03 | **Client Sample Name:** JPL-GW, MW-19-5, 2/3/2014 7:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.29**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND	**J**	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402364-03 | **Client Sample Name:** JPL-GW, MW-19-5, 2/3/2014 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**0.95**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.12**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402364-03 | **Client Sample Name:** JPL-GW, MW-19-5, 2/3/2014 7:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	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)	93.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/07/14 00:42	MGC	MS-V5	1	BXB0135

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Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402364-03 | **Client Sample Name:** JPL-GW, MW-19-5, 2/3/2014 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/07/14 00:42	MGC	MS-V5	1	BXB0135

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Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402364-03 | **Client Sample Name:** JPL-GW, MW-19-5, 2/3/2014 7:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**2.8**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/14/14	02/14/14 17:08	TMS	IC6	1	BXB1090

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Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402364-04 | **Client Sample Name:** JPL-GW, MW-19-4, 2/3/2014 8:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.27**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND	**J**	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	**0.080**	**ug/L**	**0.50**	**0.072**	**EPA-524.2**	ND	**J**	1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402364-04 | **Client Sample Name:** JPL-GW, MW-19-4, 2/3/2014 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	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**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.14**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402364-04 | **Client Sample Name:** JPL-GW, MW-19-4, 2/3/2014 8:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/07/14 01:04	MGC	MS-V5	1	BXB0135

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Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402364-04 | **Client Sample Name:** JPL-GW, MW-19-4, 2/3/2014 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
1	EPA-524.2	02/06/14	02/07/14 01:04	MGC	MS-V5	1	BXB0135

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Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402364-04 | **Client Sample Name:** JPL-GW, MW-19-4, 2/3/2014 8:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**3.4**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/14/14	02/14/14 17:22	TMS	IC6	1	BXB1090

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Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402364-05 | **Client Sample Name:** JPL-GW, MW-19-3, 2/3/2014 8:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.38**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND	**J**	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402364-05 | **Client Sample Name:** JPL-GW, MW-19-3, 2/3/2014 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**0.60**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402364-05 | **Client Sample Name:** JPL-GW, MW-19-3, 2/3/2014 8:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	100	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	88.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/07/14 01:27	MGC	MS-V5	1	BXB0135

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Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402364-05 | **Client Sample Name:** JPL-GW, MW-19-3, 2/3/2014 8:30:00AM, 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/07/14 01:27	MGC	MS-V5	1	BXB0135

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402364-05 | **Client Sample Name:** JPL-GW, MW-19-3, 2/3/2014 8:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**2.4**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/14/14	02/14/14 17:36	TMS	IC6	1	BXB1090

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Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402364-06 | **Client Sample Name:** JPL-GW, MW-19-2, 2/3/2014 9:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	**0.37**	**ug/L**	**0.50**	**0.14**	**EPA-524.2**	ND	**J**	1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.94**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	**0.080**	**ug/L**	**0.50**	**0.072**	**EPA-524.2**	ND	**J**	1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	**0.28**	**ug/L**	**0.50**	**0.11**	**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	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	**0.29**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402364-06 | **Client Sample Name:** JPL-GW, MW-19-2, 2/3/2014 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**1.3**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.80**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402364-06 | **Client Sample Name:** JPL-GW, MW-19-2, 2/3/2014 9:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	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)	99.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/07/14 01:50	MGC	MS-V5	1	BXB0135

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Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402364-06 | **Client Sample Name:** JPL-GW, MW-19-2, 2/3/2014 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/07/14 01:50	MGC	MS-V5	1	BXB0135

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Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402364-06 | **Client Sample Name:** JPL-GW, MW-19-2, 2/3/2014 9:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**5.9**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/14/14	02/14/14 17:50	TMS	IC6	1	BXB1090

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Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402364-07 | **Client Sample Name:** JPL-GW, MW-19-1, 2/3/2014 9:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402364-07 | **Client Sample Name:** JPL-GW, MW-19-1, 2/3/2014 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402364-07 | **Client Sample Name:** JPL-GW, MW-19-1, 2/3/2014 9:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/07/14 02:12	MGC	MS-V5	1	BXB0135

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Tidewater Inc.
3761 Attucks Drive
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Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402364-07 | **Client Sample Name:** JPL-GW, MW-19-1, 2/3/2014 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/07/14 02:12	MGC	MS-V5	1	BXB0135

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Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402364-07 | **Client Sample Name:** JPL-GW, MW-19-1, 2/3/2014 9:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/14/14	02/14/14 18:04	TMS	IC6	1	BXB1090

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Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402364-08 | **Client Sample Name:** JPL-GW, MW-21-5, 2/3/2014 10:40:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**7.9**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	**0.11**	**ug/L**	**0.50**	**0.11**	**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	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	**0.15**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402364-08 | **Client Sample Name:** JPL-GW, MW-21-5, 2/3/2014 10:40:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**1.2**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.11**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402364-08 | **Client Sample Name:** JPL-GW, MW-21-5, 2/3/2014 10:40:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/07/14 02:35	MGC	MS-V5	1	BXB0134

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Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402364-08 | **Client Sample Name:** JPL-GW, MW-21-5, 2/3/2014 10:40:00AM, Blaine Tech

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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/07/14 02:35	MGC	MS-V5	1	BXB0134

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Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402364-08 | **Client Sample Name:** JPL-GW, MW-21-5, 2/3/2014 10:40:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**1.7**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/14/14	02/14/14 18:18	TMS	IC6	1	BXB1090

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Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402364-08 | **Client Sample Name:** JPL-GW, MW-21-5, 2/3/2014 10:40:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**0.0018**	**mg/L**	**0.0020**	**0.00070**	**EPA-7196**	ND	**J**	1
Total Recoverable Chromium	**1.1**	**ug/L**	**3.0**	**0.50**	**EPA-200.8**	ND	**J**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	02/03/14	02/03/14 23:03	OLH	KONE-1	1	BXB0145
2	EPA-200.8	02/06/14	02/07/14 12:30	SRM	PE-EL2	1	BXB0324

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Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402364-09 | **Client Sample Name:** JPL-GW, MW-21-4, 2/3/2014 11:15:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**5.3**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	**0.10**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402364-09 | **Client Sample Name:** JPL-GW, MW-21-4, 2/3/2014 11:15:00AM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**0.62**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.090**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402364-09 | **Client Sample Name:** JPL-GW, MW-21-4, 2/3/2014 11:15:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	98.9	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/07/14 02:57	MGC	MS-V5	1	BXB0134

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Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402364-09 | **Client Sample Name:** JPL-GW, MW-21-4, 2/3/2014 11:15:00AM, 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
1	EPA-524.2	02/06/14	02/07/14 02:57	MGC	MS-V5	1	BXB0134

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Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402364-09 | **Client Sample Name:** JPL-GW, MW-21-4, 2/3/2014 11:15:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**2.1**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/14/14	02/14/14 18:59	TMS	IC6	1	BXB1090

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Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402364-09 | **Client Sample Name:** JPL-GW, MW-21-4, 2/3/2014 11:15:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**0.0012**	**mg/L**	**0.0020**	**0.00070**	**EPA-7196**	ND	**J**	1
Total Recoverable Chromium	**0.89**	**ug/L**	**3.0**	**0.50**	**EPA-200.8**	ND	**J**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	02/03/14	02/03/14 23:03	OLH	KONE-1	1	BXB0145
2	EPA-200.8	02/07/14	02/11/14 12:03	SRM	PE-EL2	1	BXB0402

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Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402364-10 | **Client Sample Name:** JPL-GW, MW-21-3, 2/3/2014 11:50:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**1.3**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	**0.16**	**ug/L**	**0.50**	**0.11**	**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	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	**0.63**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402364-10 | **Client Sample Name:** JPL-GW, MW-21-3, 2/3/2014 11:50:00AM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	**0.28**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND	**J**	1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**3.7**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.88**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402364-10 | **Client Sample Name:** JPL-GW, MW-21-3, 2/3/2014 11:50:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	97.1	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/07/14 03:20	MGC	MS-V5	1	BXB0134

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Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402364-10 | **Client Sample Name:** JPL-GW, MW-21-3, 2/3/2014 11:50:00AM, 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/07/14 03:20	MGC	MS-V5	1	BXB0134

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Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402364-10 | **Client Sample Name:** JPL-GW, MW-21-3, 2/3/2014 11:50:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**2.7**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/14/14	02/14/14 19:13	TMS	IC6	1	BXB1090

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402364-10 | **Client Sample Name:** JPL-GW, MW-21-3, 2/3/2014 11:50:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**0.0014**	**mg/L**	**0.0020**	**0.00070**	**EPA-7196**	ND	**J**	1
Total Recoverable Chromium	**0.61**	**ug/L**	**3.0**	**0.50**	**EPA-200.8**	ND	**J**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	02/03/14	02/03/14 23:03	OLH	KONE-1	1	BXB0145
2	EPA-200.8	02/07/14	02/11/14 12:06	SRM	PE-EL2	1	BXB0402

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402364-11 | **Client Sample Name:** JPL-GW, MW-21-2, 2/3/2014 12:25:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.39**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND	**J**	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	**0.17**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402364-11 | **Client Sample Name:** JPL-GW, MW-21-2, 2/3/2014 12:25:00PM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	**0.17**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND	**J**	1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**1.6**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.30**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402364-11 | **Client Sample Name:** JPL-GW, MW-21-2, 2/3/2014 12:25:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	103	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/07/14 03:42	MGC	MS-V5	1	BXB0134

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Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402364-11 | **Client Sample Name:** JPL-GW, MW-21-2, 2/3/2014 12:25:00PM, 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
1	EPA-524.2	02/06/14	02/07/14 03:42	MGC	MS-V5	1	BXB0134

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Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402364-11 | **Client Sample Name:** JPL-GW, MW-21-2, 2/3/2014 12:25:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**2.9**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/14/14	02/14/14 19:27	TMS	IC6	1	BXB1091

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Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402364-11 | **Client Sample Name:** JPL-GW, MW-21-2, 2/3/2014 12:25:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**0.0013**	**mg/L**	**0.0020**	**0.00070**	**EPA-7196**	ND	**J**	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	02/03/14	02/03/14 23:03	OLH	KONE-1	1	BXB0145
2	EPA-200.8	02/07/14	02/11/14 12:10	SRM	PE-EL2	1	BXB0402

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Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402364-12 | **Client Sample Name:** JPL-GW, MW-21-1, 2/3/2014 1:20:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**1.1**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402364-12 | **Client Sample Name:** JPL-GW, MW-21-1, 2/3/2014 1:20:00PM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**0.18**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**1.2**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402364-12 | **Client Sample Name:** JPL-GW, MW-21-1, 2/3/2014 1:20:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/07/14 04:05	MGC	MS-V5	1	BXB0134

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402364-12 | **Client Sample Name:** JPL-GW, MW-21-1, 2/3/2014 1:20:00PM, 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/07/14 04:05	MGC	MS-V5	1	BXB0134

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402364-12 | **Client Sample Name:** JPL-GW, MW-21-1, 2/3/2014 1:20:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**11**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/14/14	02/14/14 19:41	TMS	IC6	1	BXB1091

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Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402364-12 | **Client Sample Name:** JPL-GW, MW-21-1, 2/3/2014 1:20:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**0.0021**	**mg/L**	**0.0020**	**0.00070**	**EPA-7196**	ND		1
Total Recoverable Chromium	**1.8**	**ug/L**	**3.0**	**0.50**	**EPA-200.8**	ND	**J**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	02/03/14	02/03/14 23:05	OLH	KONE-1	1	BXB0145
2	EPA-200.8	02/07/14	02/11/14 12:13	SRM	PE-EL2	1	BXB0402

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Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0134						
Benzene	BXB0134-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXB0134-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXB0134-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXB0134-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXB0134-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXB0134-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXB0134-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXB0134-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXB0134-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXB0134-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXB0134-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXB0134-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXB0134-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXB0134-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXB0134-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXB0134-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BXB0134-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXB0134-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXB0134-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXB0134-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXB0134-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXB0134-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXB0134-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXB0134-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXB0134-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXB0134-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXB0134-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXB0134-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXB0134-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXB0134-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXB0134-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXB0134-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXB0134-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXB0134-BLK1	ND	ug/L	0.50	0.14	

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3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0134						
trans-1,3-Dichloropropene	BXB0134-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXB0134-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXB0134-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXB0134-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXB0134-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXB0134-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXB0134-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXB0134-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXB0134-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXB0134-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXB0134-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BXB0134-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BXB0134-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXB0134-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXB0134-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXB0134-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BXB0134-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXB0134-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXB0134-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXB0134-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXB0134-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXB0134-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXB0134-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXB0134-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXB0134-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXB0134-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXB0134-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXB0134-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXB0134-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXB0134-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXB0134-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXB0134-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXB0134-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXB0134-BLK1	ND	ug/L	4.0	0.97	

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Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0134						
Ethyl t-butyl ether	BXB0134-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXB0134-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXB0134-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXB0134-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXB0134-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXB0134-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXB0134-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXB0134-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXB0134-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXB0134-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXB0134-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXB0134-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXB0134-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	**BXB0134-BLK1**	**103**	%	**75 - 125 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**BXB0134-BLK1**	**99.8**	%	**80 - 120 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**BXB0134-BLK1**	**89.7**	%	**80 - 120 (LCL - UCL)**		
QC Batch ID: BXB0135						
Benzene	BXB0135-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXB0135-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXB0135-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXB0135-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXB0135-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXB0135-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXB0135-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXB0135-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXB0135-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXB0135-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXB0135-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXB0135-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXB0135-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXB0135-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXB0135-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXB0135-BLK1	ND	ug/L	0.50	0.15	

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Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0135						
Dibromochloromethane	BXB0135-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXB0135-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXB0135-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXB0135-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXB0135-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXB0135-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXB0135-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXB0135-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXB0135-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXB0135-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXB0135-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXB0135-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXB0135-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXB0135-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXB0135-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXB0135-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXB0135-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXB0135-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	BXB0135-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXB0135-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXB0135-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXB0135-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXB0135-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXB0135-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXB0135-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXB0135-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXB0135-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXB0135-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXB0135-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BXB0135-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BXB0135-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXB0135-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXB0135-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXB0135-BLK1	ND	ug/L	0.50	0.19	

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3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0135						
1,1,1-Trichloroethane	BXB0135-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXB0135-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXB0135-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXB0135-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXB0135-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXB0135-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXB0135-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXB0135-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXB0135-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXB0135-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXB0135-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXB0135-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXB0135-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXB0135-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXB0135-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXB0135-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXB0135-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXB0135-BLK1	ND	ug/L	4.0	0.97	
Ethyl t-butyl ether	BXB0135-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXB0135-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXB0135-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXB0135-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXB0135-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXB0135-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXB0135-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXB0135-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXB0135-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXB0135-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXB0135-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXB0135-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXB0135-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	**BXB0135-BLK1**	**100**	%	**75 - 125 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**BXB0135-BLK1**	**97.5**	%	**80 - 120 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**BXB0135-BLK1**	**87.7**	%	**80 - 120 (LCL - UCL)**		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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 Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXB0134										
Benzene	BXB0134-BS1	LCS	25.920	25.000	ug/L	104		70 - 130		
Bromodichloromethane	BXB0134-BS1	LCS	27.030	25.000	ug/L	108		70 - 130		
Chlorobenzene	BXB0134-BS1	LCS	27.060	25.000	ug/L	108		70 - 130		
Chloroethane	BXB0134-BS1	LCS	23.520	25.000	ug/L	94.1		70 - 130		
1,4-Dichlorobenzene	BXB0134-BS1	LCS	28.250	25.000	ug/L	113		70 - 130		
1,1-Dichloroethane	BXB0134-BS1	LCS	26.760	25.000	ug/L	107		70 - 130		
1,1-Dichloroethene	BXB0134-BS1	LCS	28.430	25.000	ug/L	114		70 - 130		
Toluene	BXB0134-BS1	LCS	25.440	25.000	ug/L	102		70 - 130		
Trichloroethene	BXB0134-BS1	LCS	26.800	25.000	ug/L	107		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXB0134-BS1	LCS	9.9500	10.000	ug/L	99.5		75 - 125		
Toluene-d8 (Surrogate)	BXB0134-BS1	LCS	9.4000	10.000	ug/L	94.0		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXB0134-BS1	LCS	10.070	10.000	ug/L	101		80 - 120		
QC Batch ID: BXB0135										
Benzene	BXB0135-BS1	LCS	23.340	25.000	ug/L	93.4		70 - 130		
Bromodichloromethane	BXB0135-BS1	LCS	25.700	25.000	ug/L	103		70 - 130		
Chlorobenzene	BXB0135-BS1	LCS	25.140	25.000	ug/L	101		70 - 130		
Chloroethane	BXB0135-BS1	LCS	24.810	25.000	ug/L	99.2		70 - 130		
1,4-Dichlorobenzene	BXB0135-BS1	LCS	26.520	25.000	ug/L	106		70 - 130		
1,1-Dichloroethane	BXB0135-BS1	LCS	23.660	25.000	ug/L	94.6		70 - 130		
1,1-Dichloroethene	BXB0135-BS1	LCS	25.230	25.000	ug/L	101		70 - 130		
Toluene	BXB0135-BS1	LCS	23.800	25.000	ug/L	95.2		70 - 130		
Trichloroethene	BXB0135-BS1	LCS	25.000	25.000	ug/L	100		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXB0135-BS1	LCS	9.8500	10.000	ug/L	98.5		75 - 125		
Toluene-d8 (Surrogate)	BXB0135-BS1	LCS	9.6000	10.000	ug/L	96.0		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXB0135-BS1	LCS	10.510	10.000	ug/L	105		80 - 120		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXB0134	Used client sample: Y - Description: MW-4-1, 01/27/2014 10:40										
Benzene	MS	1401914-07	ND	27.130	25.000	ug/L		109		70 - 130	
	MSD	1401914-07	ND	24.380	25.000	ug/L	10.7	97.5	20	70 - 130	
Bromodichloromethane	MS	1401914-07	ND	28.230	25.000	ug/L		113		70 - 130	
	MSD	1401914-07	ND	26.560	25.000	ug/L	6.1	106	20	70 - 130	
Chlorobenzene	MS	1401914-07	ND	27.520	25.000	ug/L		110		70 - 130	
	MSD	1401914-07	ND	25.440	25.000	ug/L	7.9	102	20	70 - 130	
Chloroethane	MS	1401914-07	ND	24.590	25.000	ug/L		98.4		70 - 130	
	MSD	1401914-07	ND	22.360	25.000	ug/L	9.5	89.4	20	70 - 130	
1,4-Dichlorobenzene	MS	1401914-07	ND	30.230	25.000	ug/L		121		70 - 130	
	MSD	1401914-07	ND	28.440	25.000	ug/L	6.1	114	20	70 - 130	
1,1-Dichloroethane	MS	1401914-07	ND	27.840	25.000	ug/L		111		70 - 130	
	MSD	1401914-07	ND	25.090	25.000	ug/L	10.4	100	20	70 - 130	
1,1-Dichloroethene	MS	1401914-07	ND	29.510	25.000	ug/L		118		70 - 130	
	MSD	1401914-07	ND	26.250	25.000	ug/L	11.7	105	20	70 - 130	
Toluene	MS	1401914-07	ND	26.340	25.000	ug/L		105		70 - 130	
	MSD	1401914-07	ND	24.950	25.000	ug/L	5.4	99.8	20	70 - 130	
Trichloroethene	MS	1401914-07	ND	27.040	25.000	ug/L		108		70 - 130	
	MSD	1401914-07	ND	25.750	25.000	ug/L	4.9	103	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1401914-07	ND	10.720	10.000	ug/L		107		75 - 125	
	MSD	1401914-07	ND	10.190	10.000	ug/L	5.1	102		75 - 125	
Toluene-d8 (Surrogate)	MS	1401914-07	ND	9.6300	10.000	ug/L		96.3		80 - 120	
	MSD	1401914-07	ND	9.7900	10.000	ug/L	1.6	97.9		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1401914-07	ND	10.230	10.000	ug/L		102		80 - 120	
	MSD	1401914-07	ND	10.450	10.000	ug/L	2.1	104		80 - 120	
QC Batch ID: BXB0135	Used client sample: Y - Description: MW-14-1, 01/27/2014 13:50										
Benzene	MS	1401914-12	ND	27.250	25.000	ug/L		109		70 - 130	
	MSD	1401914-12	ND	25.550	25.000	ug/L	6.4	102	20	70 - 130	
Bromodichloromethane	MS	1401914-12	ND	29.310	25.000	ug/L		117		70 - 130	
	MSD	1401914-12	ND	28.130	25.000	ug/L	4.1	113	20	70 - 130	
Chlorobenzene	MS	1401914-12	ND	28.340	25.000	ug/L		113		70 - 130	
	MSD	1401914-12	ND	26.730	25.000	ug/L	5.8	107	20	70 - 130	
Chloroethane	MS	1401914-12	ND	23.940	25.000	ug/L		95.8		70 - 130	
	MSD	1401914-12	ND	27.560	25.000	ug/L	14.1	110	20	70 - 130	
1,4-Dichlorobenzene	MS	1401914-12	ND	30.470	25.000	ug/L		122		70 - 130	
	MSD	1401914-12	ND	29.410	25.000	ug/L	3.5	118	20	70 - 130	
1,1-Dichloroethane	MS	1401914-12	0.14000	27.760	25.000	ug/L		110		70 - 130	
	MSD	1401914-12	0.14000	26.260	25.000	ug/L	5.6	104	20	70 - 130	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXB0135	Used client sample: Y - Description: MW-14-1, 01/27/2014 13:50										
1,1-Dichloroethene	MS	1401914-12	ND	29.590	25.000	ug/L		118		70 - 130	
	MSD	1401914-12	ND	27.590	25.000	ug/L	7.0	110	20	70 - 130	
Toluene	MS	1401914-12	ND	27.830	25.000	ug/L		111		70 - 130	
	MSD	1401914-12	ND	26.180	25.000	ug/L	6.1	105	20	70 - 130	
Trichloroethene	MS	1401914-12	3.3900	29.670	25.000	ug/L		105		70 - 130	
	MSD	1401914-12	3.3900	28.490	25.000	ug/L	4.1	100	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1401914-12	ND	10.710	10.000	ug/L		107		75 - 125	
	MSD	1401914-12	ND	10.020	10.000	ug/L	6.7	100		75 - 125	
Toluene-d8 (Surrogate)	MS	1401914-12	ND	9.9700	10.000	ug/L		99.7		80 - 120	
	MSD	1401914-12	ND	9.8300	10.000	ug/L	1.4	98.3		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1401914-12	ND	10.600	10.000	ug/L		106		80 - 120	
	MSD	1401914-12	ND	10.240	10.000	ug/L	3.5	102		80 - 120	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0134						
Chloroacetonitrile	BXB0134-BLK1	0	ug/L			
1-Chlorobutane	BXB0134-BLK1	0	ug/L			
1,1-Dichloropropanone	BXB0134-BLK1	0	ug/L			
Methyl acrylate	BXB0134-BLK1	0	ug/L			
Nitrobenzene	BXB0134-BLK1	0	ug/L			
2-Nitropropane	BXB0134-BLK1	0	ug/L			
QC Batch ID: BXB0135						
Chloroacetonitrile	BXB0135-BLK1	0	ug/L			
1-Chlorobutane	BXB0135-BLK1	0	ug/L			
1,1-Dichloropropanone	BXB0135-BLK1	0	ug/L			
Methyl acrylate	BXB0135-BLK1	0	ug/L			
Nitrobenzene	BXB0135-BLK1	0	ug/L			
2-Nitropropane	BXB0135-BLK1	0	ug/L			

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB1090						
Perchlorate	BXB1090-BLK1	ND	ug/L	4.0	0.45	
QC Batch ID: BXB1091						
Perchlorate	BXB1091-BLK1	ND	ug/L	4.0	0.45	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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 Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXB1090										
Perchlorate	BXB1090-BS1	LCS	11.465	10.000	ug/L	115		85 - 115		
QC Batch ID: BXB1091										
Perchlorate	BXB1091-BS1	LCS	10.607	10.000	ug/L	106		85 - 115		

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Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXB1090	Used client sample: Y - Description: MW-19-5, 02/03/2014 07:30										
Perchlorate	DUP	402364-03RE´	2.6672	2.6159		ug/L	1.9		15		J
	MS	402364-03RE´	2.6672	11.748	10.101	ug/L		89.9		80 - 120	
	MSD	402364-03RE´	2.6672	12.486	10.101	ug/L	6.1	97.2	15	80 - 120	
QC Batch ID: BXB1091	Used client sample: Y - Description: MW-21-2, 02/03/2014 12:25										
Perchlorate	DUP	1402364-11	2.8795	2.9979		ug/L	4.0		15		J
	MS	1402364-11	2.8795	11.632	10.101	ug/L		86.6		80 - 120	
	MSD	1402364-11	2.8795	12.829	10.101	ug/L	9.8	98.5	15	80 - 120	

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Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0145						
Hexavalent Chromium	BXB0145-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BXB0324						
Total Recoverable Chromium	BXB0324-BLK1	ND	ug/L	3.0	0.50	
QC Batch ID: BXB0402						
Total Recoverable Chromium	BXB0402-BLK1	ND	ug/L	3.0	0.50	

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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 Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXB0145										
Hexavalent Chromium	BXB0145-BS1	LCS	0.050179	0.050000	mg/L	100		85 - 115		
QC Batch ID: BXB0324										
Total Recoverable Chromium	BXB0324-BS1	LCS	37.013	40.000	ug/L	92.5		85 - 115		
QC Batch ID: BXB0402										
Total Recoverable Chromium	BXB0402-BS1	LCS	40.360	40.000	ug/L	101		85 - 115		

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXB0145	Used client sample: Y - Description: EB-6-2/3/14, 02/03/2014 07:00										
Hexavalent Chromium	DUP	1402364-02	ND	ND		mg/L			10		
	MS	1402364-02	ND	0.053044	0.052632	mg/L		101		85 - 115	
	MSD	1402364-02	ND	0.053355	0.052632	mg/L	0.6	101	10	85 - 115	
QC Batch ID: BXB0324	Used client sample: N										
Total Recoverable Chromium	DUP	1402210-01	ND	0.60500		ug/L			20		J
	MS	1402210-01	ND	36.866	40.000	ug/L		92.2		70 - 130	
	MSD	1402210-01	ND	38.647	40.000	ug/L	4.7	96.6	20	70 - 130	
QC Batch ID: BXB0402	Used client sample: Y - Description: MW-17-2, 02/04/2014 09:10										
Total Recoverable Chromium	DUP	1402545-05	ND	ND		ug/L			20		
	MS	1402545-05	ND	38.002	40.000	ug/L		95.0		70 - 130	
	MSD	1402545-05	ND	35.501	40.000	ug/L	6.8	88.8	20	70 - 130	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/18/2014 15:01
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference

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BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 02/21/2014

David Conner

Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Client Project:	1st Qtr.
BCL Project:	JPL- GW Monitoring Wells
BCL Work Order:	1402545
Invoice ID:	B166806

Enclosed are the results of analyses for samples received by the laboratory on 2/4/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton
Client Service Rep

Authorized Signature

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Volatile Organic Analysis (EPA Method 524.2) TICs

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BC Laboratories, Inc. — Chain of Custody Form

*Required Fields

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Report To: Client:* Tidewater, Inc.	Project Description:* JPL-GW Monitoring
Attn:* David Conner	
Street Address:* 3761 Attucks Drive	Project Code:* 1st Qtr.
City:* Powell State:* OH Zip:* 43065	
Phone#:* (614) 792 - 2897 Fax#: (614) 792 - 2897	Sampler (s):* Blaine Tech
Email Address: david.conner@tideh2o.net	
Submission #: 14-02545	

Billing
Client:* Tidewater, Inc. (P.O. #1213-000-02)
Attn:* As directed by Ben Headington
Address:* 6625 Selnick Drive, Suite A
City:* Elkridge State:* MD Zip:* 21075
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*	VOCs EPA 524.2	Total Chromium 200.8 (ug/L)	Perchlorate 314.0	Hexavalent Cr6 -7196 (mg/L)	Chloride, Nitrate, Sulfate	Orthophosphate 365.1	Nitrite 353.2	Notes
-1	TB-7-2/4/14	2-4-14	0700	AQ	X							
-2	EB-7-2/4/14		0710		X	X	X	X				
-3	MW-17-4		0800		X	X	X	X				
-4	MW-17-3		0835		X	X	X	X				
-5	MW-17-2		0910		X	X	X	X				MS/MSD
-6	MW-18-5		1040		X		X					
-7	MW-18-4		1115		X	X	X	X				
-8	MW-18-3		1150		X	X	X	X				
-9	MW-18-2		1230		X	X	X	X				MS/MSD
-10	MW-24-4		1350					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)

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

Cost Center: _____ Global ID: _____

	Date	Time		Date	Time
1. Relinquished By:	2-4-14	1515	1. Received By: Nicole	2/4/14	1515
2. Relinquished By: Nicole	2/4/14	1615	2. Received By:	2/4/14	1615
3. Relinquished By:	2/4/14	1905	3. Received By:	2.4.14	1905

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

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Chain of Custody and Cooler Receipt Form for 1402545 Page 2 of 2

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 15 07/01/13 Page 1 Of 1

Submission #: 14-02545

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Federal Express ☐ UPS ☐ Hand Delivery	Ice Chest ☑ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____	Other ☐ (Specify)_____	

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

Custody Seals: Ice Chest ☐ Intact? Yes ☐ No ☐ | Containers ☐ Intact? Yes ☐ No ☐ | None ☑ Comments:

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

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: PE Thermometer ID: 207 Date/Time 2/4/14 1905

Temperature: (A) 0.8 °C / (C) 0.8 °C Analyst Init TT

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL		P	B	B	B	B	B	B	B	A
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS		C	C	C	C		C	C	C	
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A(1)									
40ml VOA VIAL	( )	A (3)	A (3)	A (3)	A (6)	A (3)	A (3)	A (3)	A (6)	( )
QT EPA 413.1, 413.2, 418.1										
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										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

CHK BY DISTRIBUTION MA WET SUB-OUT

ZHN SHORT HOLDING TIME Cr+6 NO_2 NO_3 OP SS DO Cl_2 BOD MBAS COT

Comments: 2 VOAs from #2 broke in lab.

Sample Numbering Completed By: KTO Date/Time: 02/04/14 @ 2015

A = Actual / C = Corrected

[S:\MyDOCS\WordPerfect\LAB_DOCS\FORMS\SAMREC15]

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1402545-01	**COC Number:**	---	**Receive Date:**	02/04/2014 19:05
	Project Number:	JPL-GW	**Sampling Date:**	02/04/2014 07:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	TB-7-2/4/14	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): TB-7-2/4/14	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402545-02	**COC Number:**	---	**Receive Date:**	02/04/2014 19:05
	Project Number:	JPL-GW	**Sampling Date:**	02/04/2014 07:10
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	EB-7-2/4/14	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): EB-7-2/4/14	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402545-03	**COC Number:**	---	**Receive Date:**	02/04/2014 19:05
	Project Number:	JPL-GW	**Sampling Date:**	02/04/2014 08:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-17-4	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-17-4	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1402545-04	**COC Number:**	---	**Receive Date:**	02/04/2014 19:05
	Project Number:	JPL-GW	**Sampling Date:**	02/04/2014 08:35
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-17-3	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-17-3	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402545-05	**COC Number:**	---	**Receive Date:**	02/04/2014 19:05
	Project Number:	JPL-GW	**Sampling Date:**	02/04/2014 09:10
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-17-2	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-17-2	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402545-06	**COC Number:**	---	**Receive Date:**	02/04/2014 19:05
	Project Number:	JPL-GW	**Sampling Date:**	02/04/2014 10:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-18-5	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-18-5	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1402545-07	**COC Number:**	---	**Receive Date:**	02/04/2014 19:05
	Project Number:	JPL-GW	**Sampling Date:**	02/04/2014 11:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-18-4	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-18-4	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402545-08	**COC Number:**	---	**Receive Date:**	02/04/2014 19:05
	Project Number:	JPL-GW	**Sampling Date:**	02/04/2014 11:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-18-3	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-18-3	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402545-09	**COC Number:**	---	**Receive Date:**	02/04/2014 19:05
	Project Number:	JPL-GW	**Sampling Date:**	02/04/2014 12:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-18-2	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-18-2	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information

1402545-10

COC Number: ---
Project Number: JPL-GW
Sampling Location: ---
Sampling Point: MW-24-4
Sampled By: Blaine Tech of BAT

Receive Date: 02/04/2014 19:05
Sampling Date: 02/04/2014 13:50
Sample Depth: ---
Lab Matrix: Water
Sample Type: Water
Delivery Work Order:
Global ID: 0000000000
Location ID (FieldPoint): MW-24-4
Matrix: W
Sample QC Type (SACode): CS
Cooler ID:

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Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402545-01 | **Client Sample Name:** JPL-GW, TB-7-2/4/14, 2/4/2014 7:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402545-01 | **Client Sample Name:** JPL-GW, TB-7-2/4/14, 2/4/2014 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	**16**	**ug/L**	**0.50**	**0.48**	**EPA-524.2**	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402545-01 | **Client Sample Name:** JPL-GW, TB-7-2/4/14, 2/4/2014 7:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	96.1	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/10/14	02/10/14 20:37	MGC	MS-V5	1	BXB0506

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Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402545-01 | **Client Sample Name:** JPL-GW, TB-7-2/4/14, 2/4/2014 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
1	EPA-524.2	02/10/14	02/10/14 20:37	MGC	MS-V5	1	BXB0506

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Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402545-02 | **Client Sample Name:** JPL-GW, EB-7-2/4/14, 2/4/2014 7:10:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402545-02 | **Client Sample Name:** JPL-GW, EB-7-2/4/14, 2/4/2014 7:10:00AM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402545-02 | **Client Sample Name:** JPL-GW, EB-7-2/4/14, 2/4/2014 7:10:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	**0.18**	**ug/L**	**0.50**	**0.082**	**EPA-524.2**	ND	**J**	1
1,2-Dichloroethane-d4 (Surrogate)	98.7	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	88.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/10/14	02/10/14 21:00	MGC	MS-V5	1	BXB0506

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Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402545-02 | **Client Sample Name:** JPL-GW, EB-7-2/4/14, 2/4/2014 7:10:00AM, 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/10/14	02/10/14 21:00	MGC	MS-V5	1	BXB0506

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Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402545-02 | **Client Sample Name:** JPL-GW, EB-7-2/4/14, 2/4/2014 7:10:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/18/14	02/18/14 19:06	OLH	IC6	1	BXB1331

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Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402545-02 | **Client Sample Name:** JPL-GW, EB-7-2/4/14, 2/4/2014 7:10:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	02/04/14	02/04/14 23:52	OLH	KONE-1	1	BXB0193
2	EPA-200.8	02/07/14	02/11/14 12:16	SRM	PE-EL2	1	BXB0402

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Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402545-03 | **Client Sample Name:** JPL-GW, MW-17-4, 2/4/2014 8:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	**0.83**	**ug/L**	**0.50**	**0.18**	**EPA-524.2**	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.78**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402545-03 | **Client Sample Name:** JPL-GW, MW-17-4, 2/4/2014 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	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**	**0.13**	**EPA-524.2**	ND	**J**	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**3.1**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402545-03 | **Client Sample Name:** JPL-GW, MW-17-4, 2/4/2014 8:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	99.8	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/10/14	02/10/14 21:23	MGC	MS-V5	1	BXB0506

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Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402545-03 | **Client Sample Name:** JPL-GW, MW-17-4, 2/4/2014 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
1	EPA-524.2	02/10/14	02/10/14 21:23	MGC	MS-V5	1	BXB0506

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Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402545-03 | **Client Sample Name:** JPL-GW, MW-17-4, 2/4/2014 8:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**18**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/18/14	02/18/14 20:01	OLH	IC6	1	BXB1331

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Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402545-03 | **Client Sample Name:** JPL-GW, MW-17-4, 2/4/2014 8:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**0.0028**	**mg/L**	**0.0020**	**0.00070**	**EPA-7196**	ND		1
Total Recoverable Chromium	**4.0**	**ug/L**	**3.0**	**0.50**	**EPA-200.8**	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	02/04/14	02/05/14 00:37	OLH	KONE-1	1	BXB0193
2	EPA-200.8	02/07/14	02/11/14 12:19	SRM	PE-EL2	1	BXB0402

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Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402545-04 | **Client Sample Name:** JPL-GW, MW-17-3, 2/4/2014 8:35:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.21**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND	**J**	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402545-04 | **Client Sample Name:** JPL-GW, MW-17-3, 2/4/2014 8:35:00AM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**0.19**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.19**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402545-04 | **Client Sample Name:** JPL-GW, MW-17-3, 2/4/2014 8:35:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	100	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/13/14	02/14/14 07:07	MGC	MS-V5	1	BXB0925

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3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402545-04 | **Client Sample Name:** JPL-GW, MW-17-3, 2/4/2014 8:35:00AM, Blaine Tech

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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/13/14	02/14/14 07:07	MGC	MS-V5	1	BXB0925

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Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402545-04 | **Client Sample Name:** JPL-GW, MW-17-3, 2/4/2014 8:35:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**7.4**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/18/14	02/18/14 20:15	OLH	IC6	1	BXB1331

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402545-04 | **Client Sample Name:** JPL-GW, MW-17-3, 2/4/2014 8:35:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	02/04/14	02/04/14 23:52	OLH	KONE-1	1	BXB0193
2	EPA-200.8	02/07/14	02/11/14 12:22	SRM	PE-EL2	1	BXB0402

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Tidewater Inc.
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Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402545-05 | **Client Sample Name:** JPL-GW, MW-17-2, 2/4/2014 9:10:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402545-05 | **Client Sample Name:** JPL-GW, MW-17-2, 2/4/2014 9:10:00AM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	**0.11**	**ug/L**	**0.50**	**0.068**	**EPA-524.2**	ND	**J**	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402545-05 | **Client Sample Name:** JPL-GW, MW-17-2, 2/4/2014 9:10:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	99.7	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/10/14	02/10/14 15:44	MGC	MS-V5	1	BXB0506

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Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402545-05 | **Client Sample Name:** JPL-GW, MW-17-2, 2/4/2014 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/10/14	02/10/14 15:44	MGC	MS-V5	1	BXB0506

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Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402545-05 | **Client Sample Name:** JPL-GW, MW-17-2, 2/4/2014 9:10:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/18/14	02/18/14 22:37	OLH	IC6	1	BXB1331

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Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402545-05 | **Client Sample Name:** JPL-GW, MW-17-2, 2/4/2014 9:10:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	02/04/14	02/04/14 23:52	OLH	KONE-1	1	BXB0193
2	EPA-200.8	02/07/14	02/11/14 11:37	SRM	PE-EL2	1	BXB0402

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Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402545-06 | **Client Sample Name:** JPL-GW, MW-18-5, 2/4/2014 10:40:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402545-06 | **Client Sample Name:** JPL-GW, MW-18-5, 2/4/2014 10:40:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402545-06 | **Client Sample Name:** JPL-GW, MW-18-5, 2/4/2014 10:40:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	99.7	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/13/14	02/14/14 07:30	MGC	MS-V5	1	BXB0925

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Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402545-06 | **Client Sample Name:** JPL-GW, MW-18-5, 2/4/2014 10:40:00AM, Blaine Tech

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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/13/14	02/14/14 07:30	MGC	MS-V5	1	BXB0925

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Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402545-06 | **Client Sample Name:** JPL-GW, MW-18-5, 2/4/2014 10:40:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/18/14	02/18/14 22:51	OLH	IC6	1	BXB1331

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Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402545-07 | **Client Sample Name:** JPL-GW, MW-18-4, 2/4/2014 11:15:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	**1.8**	**ug/L**	**0.50**	**0.18**	**EPA-524.2**	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.74**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402545-07 | **Client Sample Name:** JPL-GW, MW-18-4, 2/4/2014 11:15:00AM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**0.87**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.95**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402545-07 | **Client Sample Name:** JPL-GW, MW-18-4, 2/4/2014 11:15:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	98.0	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	89.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/13/14	02/14/14 07:52	MGC	MS-V5	1	BXB0925

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Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402545-07 | **Client Sample Name:** JPL-GW, MW-18-4, 2/4/2014 11:15:00AM, 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
1	EPA-524.2	02/13/14	02/14/14 07:52	MGC	MS-V5	1	BXB0925

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Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402545-07 | **Client Sample Name:** JPL-GW, MW-18-4, 2/4/2014 11:15:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**15**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/18/14	02/18/14 23:05	OLH	IC6	1	BXB1331

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Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402545-07 | **Client Sample Name:** JPL-GW, MW-18-4, 2/4/2014 11:15:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**0.0020**	**mg/L**	**0.0020**	**0.00070**	**EPA-7196**	ND		1
Total Recoverable Chromium	**2.8**	**ug/L**	**3.0**	**0.50**	**EPA-200.8**	ND	**J**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	02/04/14	02/05/14 00:37	OLH	KONE-1	1	BXB0193
2	EPA-200.8	02/07/14	02/11/14 12:26	SRM	PE-EL2	1	BXB0402

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Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402545-08 | **Client Sample Name:** JPL-GW, MW-18-3, 2/4/2014 11:50:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	**5.2**	**ug/L**	**0.50**	**0.18**	**EPA-524.2**	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**1.2**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402545-08 | **Client Sample Name:** JPL-GW, MW-18-3, 2/4/2014 11:50:00AM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.48**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402545-08 | **Client Sample Name:** JPL-GW, MW-18-3, 2/4/2014 11:50:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	92.6	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/13/14	02/14/14 08:15	MGC	MS-V5	1	BXB0925

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402545-08 | **Client Sample Name:** JPL-GW, MW-18-3, 2/4/2014 11:50:00AM, 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/13/14	02/14/14 08:15	MGC	MS-V5	1	BXB0925

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Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402545-08 | **Client Sample Name:** JPL-GW, MW-18-3, 2/4/2014 11:50:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**35**	**ug/L**	**8.0**	**0.90**	**EPA-314.0**	ND	**A01**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/18/14	02/19/14 17:43	OLH	IC6	2	BXB1331

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Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402545-08 | **Client Sample Name:** JPL-GW, MW-18-3, 2/4/2014 11:50:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**0.0015**	**mg/L**	**0.0020**	**0.00070**	**EPA-7196**	ND	**J**	1
Total Recoverable Chromium	**1.8**	**ug/L**	**3.0**	**0.50**	**EPA-200.8**	ND	**J**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	02/04/14	02/04/14 23:56	OLH	KONE-1	1	BXB0193
2	EPA-200.8	02/07/14	02/11/14 12:29	SRM	PE-EL2	1	BXB0402

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402545-09 | **Client Sample Name:** JPL-GW, MW-18-2, 2/4/2014 12:30:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402545-09 | **Client Sample Name:** JPL-GW, MW-18-2, 2/4/2014 12:30:00PM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402545-09 | **Client Sample Name:** JPL-GW, MW-18-2, 2/4/2014 12:30:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	95.4	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/13/14	02/14/14 06:44	MGC	MS-V5	1	BXB0925

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Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402545-09 | **Client Sample Name:** JPL-GW, MW-18-2, 2/4/2014 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/13/14	02/14/14 06:44	MGC	MS-V5	1	BXB0925

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Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402545-09 | **Client Sample Name:** JPL-GW, MW-18-2, 2/4/2014 12:30:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/18/14	02/18/14 23:32	OLH	IC6	1	BXB1332

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402545-09 | **Client Sample Name:** JPL-GW, MW-18-2, 2/4/2014 12:30:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	02/04/14	02/04/14 23:56	OLH	KONE-1	1	BXB0193
2	EPA-200.8	02/10/14	02/11/14 19:13	SRM	PE-EL2	1	BXB0557

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402545-10 | **Client Sample Name:** JPL-GW, MW-24-4, 2/4/2014 1:50:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	02/04/14	02/04/14 23:56	OLH	KONE-1	1	BXB0193

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0506						
Benzene	BXB0506-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXB0506-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXB0506-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXB0506-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXB0506-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXB0506-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXB0506-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXB0506-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXB0506-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXB0506-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXB0506-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXB0506-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXB0506-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXB0506-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXB0506-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXB0506-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BXB0506-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXB0506-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXB0506-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXB0506-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXB0506-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXB0506-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXB0506-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXB0506-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXB0506-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXB0506-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXB0506-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXB0506-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXB0506-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXB0506-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXB0506-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXB0506-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXB0506-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXB0506-BLK1	ND	ug/L	0.50	0.14	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0506						
trans-1,3-Dichloropropene	BXB0506-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXB0506-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXB0506-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXB0506-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXB0506-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXB0506-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXB0506-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXB0506-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXB0506-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXB0506-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXB0506-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BXB0506-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BXB0506-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXB0506-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXB0506-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXB0506-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BXB0506-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXB0506-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXB0506-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXB0506-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXB0506-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXB0506-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXB0506-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXB0506-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXB0506-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXB0506-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXB0506-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXB0506-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXB0506-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXB0506-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXB0506-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXB0506-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXB0506-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXB0506-BLK1	ND	ug/L	4.0	0.97	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0506						
Ethyl t-butyl ether	BXB0506-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXB0506-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXB0506-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXB0506-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXB0506-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXB0506-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXB0506-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXB0506-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXB0506-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXB0506-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXB0506-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXB0506-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXB0506-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	**BXB0506-BLK1**	**95.5**	%	**75 - 125 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**BXB0506-BLK1**	**98.9**	%	**80 - 120 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**BXB0506-BLK1**	**95.2**	%	**80 - 120 (LCL - UCL)**		
QC Batch ID: BXB0925						
Benzene	BXB0925-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXB0925-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXB0925-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXB0925-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXB0925-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXB0925-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXB0925-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXB0925-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXB0925-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXB0925-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXB0925-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXB0925-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXB0925-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXB0925-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXB0925-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXB0925-BLK1	ND	ug/L	0.50	0.15	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0925						
Dibromochloromethane	BXB0925-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXB0925-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXB0925-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXB0925-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXB0925-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXB0925-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXB0925-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXB0925-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXB0925-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXB0925-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXB0925-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXB0925-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXB0925-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXB0925-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXB0925-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXB0925-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXB0925-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXB0925-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	BXB0925-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXB0925-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXB0925-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXB0925-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXB0925-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXB0925-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXB0925-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXB0925-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXB0925-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXB0925-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXB0925-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BXB0925-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BXB0925-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXB0925-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXB0925-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXB0925-BLK1	ND	ug/L	0.50	0.19	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0925						
1,1,1-Trichloroethane	BXB0925-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXB0925-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXB0925-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXB0925-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXB0925-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXB0925-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXB0925-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXB0925-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXB0925-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXB0925-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXB0925-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXB0925-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXB0925-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXB0925-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXB0925-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXB0925-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXB0925-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXB0925-BLK1	ND	ug/L	4.0	0.97	
Ethyl t-butyl ether	BXB0925-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXB0925-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXB0925-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXB0925-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXB0925-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXB0925-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXB0925-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXB0925-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXB0925-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXB0925-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXB0925-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXB0925-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXB0925-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	**BXB0925-BLK1**	**95.8**	%	**75 - 125 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**BXB0925-BLK1**	**98.5**	%	**80 - 120 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**BXB0925-BLK1**	**93.8**	%	**80 - 120 (LCL - UCL)**		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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 Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXB0506										
Benzene	BXB0506-BS1	LCS	26.940	25.000	ug/L	108		70 - 130		
Bromodichloromethane	BXB0506-BS1	LCS	26.340	25.000	ug/L	105		70 - 130		
Chlorobenzene	BXB0506-BS1	LCS	27.080	25.000	ug/L	108		70 - 130		
Chloroethane	BXB0506-BS1	LCS	30.390	25.000	ug/L	122		70 - 130		
1,4-Dichlorobenzene	BXB0506-BS1	LCS	28.240	25.000	ug/L	113		70 - 130		
1,1-Dichloroethane	BXB0506-BS1	LCS	27.400	25.000	ug/L	110		70 - 130		
1,1-Dichloroethene	BXB0506-BS1	LCS	28.470	25.000	ug/L	114		70 - 130		
Toluene	BXB0506-BS1	LCS	25.350	25.000	ug/L	101		70 - 130		
Trichloroethene	BXB0506-BS1	LCS	27.840	25.000	ug/L	111		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXB0506-BS1	LCS	9.9300	10.000	ug/L	99.3		75 - 125		
Toluene-d8 (Surrogate)	BXB0506-BS1	LCS	9.6100	10.000	ug/L	96.1		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXB0506-BS1	LCS	10.320	10.000	ug/L	103		80 - 120		
QC Batch ID: BXB0925										
Benzene	BXB0925-BS1	LCS	23.040	25.000	ug/L	92.2		70 - 130		
Bromodichloromethane	BXB0925-BS1	LCS	22.130	25.000	ug/L	88.5		70 - 130		
Chlorobenzene	BXB0925-BS1	LCS	23.280	25.000	ug/L	93.1		70 - 130		
Chloroethane	BXB0925-BS1	LCS	25.000	25.000	ug/L	100		70 - 130		
1,4-Dichlorobenzene	BXB0925-BS1	LCS	23.760	25.000	ug/L	95.0		70 - 130		
1,1-Dichloroethane	BXB0925-BS1	LCS	22.120	25.000	ug/L	88.5		70 - 130		
1,1-Dichloroethene	BXB0925-BS1	LCS	23.840	25.000	ug/L	95.4		70 - 130		
Toluene	BXB0925-BS1	LCS	23.110	25.000	ug/L	92.4		70 - 130		
Trichloroethene	BXB0925-BS1	LCS	24.390	25.000	ug/L	97.6		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXB0925-BS1	LCS	9.4900	10.000	ug/L	94.9		75 - 125		
Toluene-d8 (Surrogate)	BXB0925-BS1	LCS	9.4800	10.000	ug/L	94.8		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXB0925-BS1	LCS	9.9200	10.000	ug/L	99.2		80 - 120		

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Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXB0506	Used client sample: Y - Description: MW-17-2, 02/04/2014 09:10										
Benzene	MS	1402545-05	ND	25.810	25.000	ug/L		103		70 - 130	
	MSD	1402545-05	ND	28.690	25.000	ug/L	10.6	115	20	70 - 130	
Bromodichloromethane	MS	1402545-05	ND	24.620	25.000	ug/L		98.5		70 - 130	
	MSD	1402545-05	ND	27.900	25.000	ug/L	12.5	112	20	70 - 130	
Chlorobenzene	MS	1402545-05	ND	26.000	25.000	ug/L		104		70 - 130	
	MSD	1402545-05	ND	27.830	25.000	ug/L	6.8	111	20	70 - 130	
Chloroethane	MS	1402545-05	ND	27.970	25.000	ug/L		112		70 - 130	
	MSD	1402545-05	ND	26.020	25.000	ug/L	7.2	104	20	70 - 130	
1,4-Dichlorobenzene	MS	1402545-05	ND	26.560	25.000	ug/L		106		70 - 130	
	MSD	1402545-05	ND	28.710	25.000	ug/L	7.8	115	20	70 - 130	
1,1-Dichloroethane	MS	1402545-05	ND	25.510	25.000	ug/L		102		70 - 130	
	MSD	1402545-05	ND	28.570	25.000	ug/L	11.3	114	20	70 - 130	
1,1-Dichloroethene	MS	1402545-05	ND	26.750	25.000	ug/L		107		70 - 130	
	MSD	1402545-05	ND	29.650	25.000	ug/L	10.3	119	20	70 - 130	
Toluene	MS	1402545-05	ND	23.960	25.000	ug/L		95.8		70 - 130	
	MSD	1402545-05	ND	27.190	25.000	ug/L	12.6	109	20	70 - 130	
Trichloroethene	MS	1402545-05	ND	24.600	25.000	ug/L		98.4		70 - 130	
	MSD	1402545-05	ND	27.800	25.000	ug/L	12.2	111	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1402545-05	ND	10.410	10.000	ug/L		104		75 - 125	
	MSD	1402545-05	ND	10.230	10.000	ug/L	1.7	102		75 - 125	
Toluene-d8 (Surrogate)	MS	1402545-05	ND	9.6800	10.000	ug/L		96.8		80 - 120	
	MSD	1402545-05	ND	10.080	10.000	ug/L	4.0	101		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1402545-05	ND	10.320	10.000	ug/L		103		80 - 120	
	MSD	1402545-05	ND	10.320	10.000	ug/L	0	103		80 - 120	
QC Batch ID: BXB0925	Used client sample: Y - Description: MW-18-2, 02/04/2014 12:30										
Benzene	MS	1402545-09	ND	26.530	25.000	ug/L		106		70 - 130	
	MSD	1402545-09	ND	23.700	25.000	ug/L	11.3	94.8	20	70 - 130	
Bromodichloromethane	MS	1402545-09	ND	24.380	25.000	ug/L		97.5		70 - 130	
	MSD	1402545-09	ND	22.650	25.000	ug/L	7.4	90.6	20	70 - 130	
Chlorobenzene	MS	1402545-09	ND	26.490	25.000	ug/L		106		70 - 130	
	MSD	1402545-09	ND	23.650	25.000	ug/L	11.3	94.6	20	70 - 130	
Chloroethane	MS	1402545-09	ND	28.110	25.000	ug/L		112		70 - 130	
	MSD	1402545-09	ND	24.630	25.000	ug/L	13.2	98.5	20	70 - 130	
1,4-Dichlorobenzene	MS	1402545-09	ND	27.160	25.000	ug/L		109		70 - 130	
	MSD	1402545-09	ND	24.040	25.000	ug/L	12.2	96.2	20	70 - 130	
1,1-Dichloroethane	MS	1402545-09	ND	24.870	25.000	ug/L		99.5		70 - 130	
	MSD	1402545-09	ND	22.640	25.000	ug/L	9.4	90.6	20	70 - 130	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXB0925	Used client sample: Y - Description: MW-18-2, 02/04/2014 12:30										
1,1-Dichloroethene	MS	1402545-09	ND	26.750	25.000	ug/L		107		70 - 130	
	MSD	1402545-09	ND	23.550	25.000	ug/L	12.7	94.2	20	70 - 130	
Toluene	MS	1402545-09	ND	25.390	25.000	ug/L		102		70 - 130	
	MSD	1402545-09	ND	23.280	25.000	ug/L	8.7	93.1	20	70 - 130	
Trichloroethene	MS	1402545-09	ND	25.760	25.000	ug/L		103		70 - 130	
	MSD	1402545-09	ND	23.680	25.000	ug/L	8.4	94.7	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1402545-09	ND	9.4300	10.000	ug/L		94.3		75 - 125	
	MSD	1402545-09	ND	9.3500	10.000	ug/L	0.9	93.5		75 - 125	
Toluene-d8 (Surrogate)	MS	1402545-09	ND	9.4600	10.000	ug/L		94.6		80 - 120	
	MSD	1402545-09	ND	9.7900	10.000	ug/L	3.4	97.9		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1402545-09	ND	10.050	10.000	ug/L		100		80 - 120	
	MSD	1402545-09	ND	10.420	10.000	ug/L	3.6	104		80 - 120	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0506						
Chloroacetonitrile	BXB0506-BLK1	0	ug/L			
1-Chlorobutane	BXB0506-BLK1	0	ug/L			
1,1-Dichloropropanone	BXB0506-BLK1	0	ug/L			
Methyl acrylate	BXB0506-BLK1	0	ug/L			
Nitrobenzene	BXB0506-BLK1	0	ug/L			
2-Nitropropane	BXB0506-BLK1	0	ug/L			
QC Batch ID: BXB0925						
Chloroacetonitrile	BXB0925-BLK1	0	ug/L			
1-Chlorobutane	BXB0925-BLK1	0	ug/L			
1,1-Dichloropropanone	BXB0925-BLK1	0	ug/L			
Methyl acrylate	BXB0925-BLK1	0	ug/L			
Nitrobenzene	BXB0925-BLK1	0	ug/L			
2-Nitropropane	BXB0925-BLK1	0	ug/L			

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB1331						
Perchlorate	BXB1331-BLK1	ND	ug/L	4.0	0.45	
QC Batch ID: BXB1332						
Perchlorate	BXB1332-BLK1	ND	ug/L	4.0	0.45	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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 Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXB1331										
Perchlorate	BXB1331-BS1	LCS	10.988	10.000	ug/L	110		85 - 115		
QC Batch ID: BXB1332										
Perchlorate	BXB1332-BS1	LCS	10.477	10.000	ug/L	105		85 - 115		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXB1331	Used client sample: Y - Description: MW-17-2, 02/04/2014 09:10										
Perchlorate	DUP	1402545-05	ND	ND		ug/L			15		
	MS	1402545-05	ND	8.6584	10.101	ug/L		85.7		80 - 120	
	MSD	1402545-05	ND	9.0710	10.101	ug/L	4.7	89.8	15	80 - 120	
QC Batch ID: BXB1332	Used client sample: Y - Description: MW-18-2, 02/04/2014 12:30										
Perchlorate	DUP	1402545-09	ND	ND		ug/L			15		
	MS	1402545-09	ND	8.7984	10.101	ug/L		87.1		80 - 120	
	MSD	1402545-09	ND	8.9386	10.101	ug/L	1.6	88.5	15	80 - 120	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0193						
Hexavalent Chromium	BXB0193-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BXB0402						
Total Recoverable Chromium	BXB0402-BLK1	ND	ug/L	3.0	0.50	
QC Batch ID: BXB0557						
Total Recoverable Chromium	BXB0557-BLK1	ND	ug/L	3.0	0.50	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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 Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXB0193										
Hexavalent Chromium	BXB0193-BS1	LCS	0.048707	0.050000	mg/L	97.4		85 - 115		
QC Batch ID: BXB0402										
Total Recoverable Chromium	BXB0402-BS1	LCS	40.360	40.000	ug/L	101		85 - 115		
QC Batch ID: BXB0557										
Total Recoverable Chromium	BXB0557-BS1	LCS	40.265	40.000	ug/L	101		85 - 115		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXB0193	Used client sample: Y - Description: EB-7-2/4/14, 02/04/2014 07:10										
Hexavalent Chromium	DUP	1402545-02	ND	ND		mg/L			10		
	MS	1402545-02	ND	0.050746	0.052632	mg/L		96.4		85 - 115	
	MSD	1402545-02	ND	0.050718	0.052632	mg/L	0.1	96.4	10	85 - 115	
QC Batch ID: BXB0402	Used client sample: Y - Description: MW-17-2, 02/04/2014 09:10										
Total Recoverable Chromium	DUP	1402545-05	ND	ND		ug/L			20		
	MS	1402545-05	ND	38.002	40.000	ug/L		95.0		70 - 130	
	MSD	1402545-05	ND	35.501	40.000	ug/L	6.8	88.8	20	70 - 130	
QC Batch ID: BXB0557	Used client sample: Y - Description: MW-18-2, 02/04/2014 12:30										
Total Recoverable Chromium	DUP	1402545-09	ND	ND		ug/L			20		
	MS	1402545-09	ND	37.179	40.000	ug/L		92.9		70 - 130	
	MSD	1402545-09	ND	38.332	40.000	ug/L	3.1	95.8	20	70 - 130	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 15:59
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.

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BC Laboratories, Inc.
Environmental Testing Laboratory Since 1949

Date of Report: 02/21/2014

David Conner

Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Client Project:	1st Qtr.
BCL Project:	JPL- GW Monitoring Wells
BCL Work Order:	1402735
Invoice ID:	B166788

Enclosed are the results of analyses for samples received by the laboratory on 2/5/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton
Client Service Rep

Authorized Signature

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BC Laboratories, Inc. — Chain of Custody Form

*Required Fields

Page 1 of 1

Report To: Client:* Tidewater, Inc.	Project Description:* JPL-GW Monitoring
Attn:* David Conner	
Street Address:* 3761 Attucks Drive	Project Code:* 1st Qtr.
City:* Powell State:* OH Zip:* 43065	
Phone#:* (614) 792 - 2897 Fax#: (614) 792 - 2897	Sampler (s):* Blaine Tech
Email Address: david.conner@tideh2o.net	
Submission #: 14-02735	

Billing

Client:* Tidewater, Inc. (P.O. #1213-000-02)
Attn:* As directed by Ben Headington
Address:* 6625 Selnick Drive, Suite A
City:* Elkridge State:* MD Zip:* 21075
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*	VOCs EPA 524.2	Total Chromium 200.8 (ug/L)	Perchlorate 314.0	Hexavalent Cr6 -7196 (mg/L)	Chloride, Nitrate, Sulfate	Orthophosphate 365.1	Nitrite 353.2
-1	TB-8-2/5/14	2-5-14	0700	AQ	X						
-2	EB-8-2/5/14		0715		X	X	X	X			
-3	MW-23-4		0800		X			X			
-4	MW-13		0950		X	X	X	X	X	X	X
-5	DUPE-4-1Q14		1000		X	X	X	X	X	X	X
-6	MW-7		1230		X	X	X	X	X	X	X
-7	DUPE-5-1Q14		1240		X	X	X	X	X	X	X
-8	MW-15		1335			X		X			
-9	MW-16		1400		X	X	X	X	X	X	X

Notes

STRUK HOLDING TIME
96 Cr^{+6} NO_2 NO_3 OP SS
Cl_2 BOD MBAS COT

CHK BY DISTRIBUTION
MA MT JH2
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 QC (MS/MSD)
90% Level III and 10% Level IV data validation required; Level IV Notated on C of C
NOTE: ALL ANALYSIS REQUIRED TO HAVE CALIBRATION SUMMARIES (Inform QC)

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

Cost Center: _____ Global ID: _____

	Date	Time		Date	Time
1. Relinquished By:	2-5-14	1545	1. Received By:	2/5/14	1545
2. Relinquished By:	2/5/14	1620	2. Received By:	2/5/14	1620
3. Relinquished By:	2/5/14	1920	3. Received By:	2-5-14	1920

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

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Chain of Custody and Cooler Receipt Form for 1402735 Page 2 of 2

BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 15 07/01/13 Page 1 Of 1

Submission #: 14-02735

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Federal Express ☐ UPS ☐ Hand Delivery	Ice Chest ☐ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____	Other ☐ (Specify)_____	

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

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

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

COC Received ☑YES ☐ NO

Emissivity: 0.95 Container: PE Thermometer ID: 207 Date/Time 2/5/14 1920

Temperature: (A) 1.5 °C / (C) 1.5 °C Analyst Init SAS

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL		B	A	B	B	B	B	A	B	
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS		C		C	C	C	C	B	C	
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A ( )									
40ml VOA VIAL	( )	A (3)	( )	A (3)	A (3)	A (3)	A (3)	( )	A (3)	( )
QT EPA 413.1, 413.2, 418.1										
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										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:

Sample Numbering Completed By: SAS Date/Time: 2/5/14 2035

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1402735-01	**COC Number:**	---	**Receive Date:**	02/05/2014 19:20
	Project Number:	JPL-GW	**Sampling Date:**	02/05/2014 07:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	TB-8-2/5/14	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Aqueous
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): TB-8-2/5/14	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402735-02	**COC Number:**	---	**Receive Date:**	02/05/2014 19:20
	Project Number:	JPL-GW	**Sampling Date:**	02/05/2014 07:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	EB-8-2/5/14	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Aqueous
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): EB-8-2/5/14	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402735-03	**COC Number:**	---	**Receive Date:**	02/05/2014 19:20
	Project Number:	JPL-GW	**Sampling Date:**	02/05/2014 08:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-23-4	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Aqueous
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-23-4	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1402735-04	**COC Number:**	---	**Receive Date:**	02/05/2014 19:20
	Project Number:	JPL-GW	**Sampling Date:**	02/05/2014 09:50
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-13	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Aqueous
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-13	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402735-05	**COC Number:**	---	**Receive Date:**	02/05/2014 19:20
	Project Number:	JPL-GW	**Sampling Date:**	02/05/2014 10:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	DUPE-4-1Q14	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Aqueous
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): DUPE-4-1Q14	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402735-06	**COC Number:**	---	**Receive Date:**	02/05/2014 19:20
	Project Number:	JPL-GW	**Sampling Date:**	02/05/2014 12:30
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-7	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Aqueous
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-7	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

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Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1402735-07	**COC Number:**	---	**Receive Date:**	02/05/2014 19:20
	Project Number:	JPL-GW	**Sampling Date:**	02/05/2014 12:40
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	DUPE-5-1Q14	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Aqueous
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): DUPE-5-1Q14	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402735-08	**COC Number:**	---	**Receive Date:**	02/05/2014 19:20
	Project Number:	JPL-GW	**Sampling Date:**	02/05/2014 13:35
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-15	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Aqueous
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-15	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402735-09	**COC Number:**	---	**Receive Date:**	02/05/2014 19:20
	Project Number:	JPL-GW	**Sampling Date:**	02/05/2014 14:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-16	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Aqueous
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-16	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

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Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402735-01 | **Client Sample Name:** JPL-GW, TB-8-2/5/14, 2/5/2014 7:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402735-01 | **Client Sample Name:** JPL-GW, TB-8-2/5/14, 2/5/2014 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	**16**	**ug/L**	**0.50**	**0.48**	**EPA-524.2**	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402735-01 | **Client Sample Name:** JPL-GW, TB-8-2/5/14, 2/5/2014 7:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	87.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/07/14 04:27	MGC	MS-V5	1	BXB0134

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Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402735-01 | **Client Sample Name:** JPL-GW, TB-8-2/5/14, 2/5/2014 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
1	EPA-524.2	02/06/14	02/07/14 04:27	MGC	MS-V5	1	BXB0134

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Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402735-02 | **Client Sample Name:** JPL-GW, EB-8-2/5/14, 2/5/2014 7:15:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402735-02 | **Client Sample Name:** JPL-GW, EB-8-2/5/14, 2/5/2014 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	**0.10**	**ug/L**	**0.50**	**0.093**	**EPA-524.2**	ND	**J**	1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402735-02 | **Client Sample Name:** JPL-GW, EB-8-2/5/14, 2/5/2014 7:15:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	**0.18**	**ug/L**	**0.50**	**0.082**	**EPA-524.2**	ND	**J**	1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/07/14 04:50	MGC	MS-V5	1	BXB0134

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Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402735-02 | **Client Sample Name:** JPL-GW, EB-8-2/5/14, 2/5/2014 7:15:00AM, 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
1	EPA-524.2	02/06/14	02/07/14 04:50	MGC	MS-V5	1	BXB0134

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Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402735-02 | **Client Sample Name:** JPL-GW, EB-8-2/5/14, 2/5/2014 7:15:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/19/14	02/20/14 00:02	LD1	IC6	1	BXB1394

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Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402735-02 | **Client Sample Name:** JPL-GW, EB-8-2/5/14, 2/5/2014 7:15:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	02/05/14	02/05/14 23:57	OLH	KONE-1	1	BXB0297
2	EPA-200.8	02/11/14	02/12/14 14:06	SRM	PE-EL2	1	BXB0655

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Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402735-03 | **Client Sample Name:** JPL-GW, MW-23-4, 2/5/2014 8:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**0.0026**	**mg/L**	**0.0020**	**0.00070**	**EPA-7196**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	02/05/14	02/05/14 23:57	OLH	KONE-1	1	BXB0297

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Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402735-04 | **Client Sample Name:** JPL-GW, MW-13, 2/5/2014 9:50:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.74**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	**0.55**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402735-04 | **Client Sample Name:** JPL-GW, MW-13, 2/5/2014 9:50:00AM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	**0.13**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND	**J**	1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	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**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.29**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402735-04 | **Client Sample Name:** JPL-GW, MW-13, 2/5/2014 9:50:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	98.8	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/07/14 05:13	MGC	MS-V5	1	BXB0134

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Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402735-04 | **Client Sample Name:** JPL-GW, MW-13, 2/5/2014 9:50:00AM, 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/07/14 05:13	MGC	MS-V5	1	BXB0134

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Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402735-04 | **Client Sample Name:** JPL-GW, MW-13, 2/5/2014 9:50:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride	**110**	**mg/L**	**0.50**	**0.067**	**EPA-300.0**	ND		1
Nitrate as N	**9.7**	**mg/L**	**0.10**	**0.025**	**EPA-300.0**	ND		1
Sulfate	**130**	**mg/L**	**1.0**	**0.18**	**EPA-300.0**	ND		1
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		2
Perchlorate	**33**	**ug/L**	**8.0**	**0.90**	**EPA-314.0**	ND	**A01**	3
ortho-Phosphate as P	**0.014**	**mg/L**	**0.020**	**0.0040**	**EPA-365.1**	ND	**J**	4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	02/06/14	02/06/14 17:49	OLH	IC2	1	BXB0420
2	EPA-353.2	02/06/14	02/06/14 08:59	TDC	KONE-1	1	BXB0343
3	EPA-314.0	02/19/14	02/20/14 11:47	LD1	IC6	2	BXB1394
4	EPA-365.1	02/06/14	02/06/14 09:03	TDC	KONE-1	1	BXB0346

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Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402735-04 | **Client Sample Name:** JPL-GW, MW-13, 2/5/2014 9:50:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	**150**	**ug/L**	**3.0**	**0.50**	**EPA-200.8**	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	02/05/14	02/05/14 23:57	OLH	KONE-1	1	BXB0297
2	EPA-200.8	02/11/14	02/12/14 14:09	SRM	PE-EL2	1	BXB0655

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Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402735-05 | **Client Sample Name:** JPL-GW, DUPE-4-1Q14, 2/5/2014 10:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.71**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	**0.51**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402735-05 | **Client Sample Name:** JPL-GW, DUPE-4-1Q14, 2/5/2014 10:00:00AM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	**0.13**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND	**J**	1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	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**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.28**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402735-05 | **Client Sample Name:** JPL-GW, DUPE-4-1Q14, 2/5/2014 10:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	97.9	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/07/14 05:35	MGC	MS-V5	1	BXB0134

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Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402735-05 | **Client Sample Name:** JPL-GW, DUPE-4-1Q14, 2/5/2014 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/06/14	02/07/14 05:35	MGC	MS-V5	1	BXB0134

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Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402735-05 | **Client Sample Name:** JPL-GW, DUPE-4-1Q14, 2/5/2014 10:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride	**110**	**mg/L**	**0.50**	**0.067**	**EPA-300.0**	ND		1
Nitrate as N	**9.7**	**mg/L**	**0.10**	**0.025**	**EPA-300.0**	ND		1
Sulfate	**130**	**mg/L**	**1.0**	**0.18**	**EPA-300.0**	ND		1
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		2
Perchlorate	**36**	**ug/L**	**8.0**	**0.90**	**EPA-314.0**	ND	**A01**	3
ortho-Phosphate as P	**0.014**	**mg/L**	**0.020**	**0.0040**	**EPA-365.1**	ND	**J**	4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	02/06/14	02/06/14 18:05	OLH	IC2	1	BXB0420
2	EPA-353.2	02/06/14	02/06/14 08:46	TDC	KONE-1	1	BXB0343
3	EPA-314.0	02/19/14	02/20/14 12:01	LD1	IC6	2	BXB1394
4	EPA-365.1	02/06/14	02/06/14 09:03	TDC	KONE-1	1	BXB0346

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Tidewater Inc.
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Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402735-05 | **Client Sample Name:** JPL-GW, DUPE-4-1Q14, 2/5/2014 10:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	**150**	**ug/L**	**3.0**	**0.50**	**EPA-200.8**	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	02/05/14	02/05/14 23:57	OLH	KONE-1	1	BXB0297
2	EPA-200.8	02/11/14	02/12/14 14:13	SRM	PE-EL2	1	BXB0655

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Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402735-06 | **Client Sample Name:** JPL-GW, MW-7, 2/5/2014 12:30:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	**0.36**	**ug/L**	**0.50**	**0.14**	**EPA-524.2**	ND	**J**	1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**11**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402735-06 | **Client Sample Name:** JPL-GW, MW-7, 2/5/2014 12:30:00PM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402735-06 | **Client Sample Name:** JPL-GW, MW-7, 2/5/2014 12:30:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	96.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	87.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/07/14	02/08/14 08:04	MGC	MS-V5	1	BXB0395

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402735-06 | **Client Sample Name:** JPL-GW, MW-7, 2/5/2014 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/07/14	02/08/14 08:04	MGC	MS-V5	1	BXB0395

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402735-06 | **Client Sample Name:** JPL-GW, MW-7, 2/5/2014 12:30:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride	**79**	**mg/L**	**0.50**	**0.067**	**EPA-300.0**	ND		1
Nitrate as N	**1.1**	**mg/L**	**0.10**	**0.025**	**EPA-300.0**	ND		1
Sulfate	**42**	**mg/L**	**1.0**	**0.18**	**EPA-300.0**	ND		1
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		2
Perchlorate	**2.4**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND	**J**	3
ortho-Phosphate as P	**0.026**	**mg/L**	**0.020**	**0.0040**	**EPA-365.1**	ND		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	02/06/14	02/06/14 18:20	OLH	IC2	1	BXB0420
2	EPA-353.2	02/06/14	02/06/14 08:46	TDC	KONE-1	1	BXB0343
3	EPA-314.0	02/19/14	02/20/14 00:44	LD1	IC6	1	BXB1394
4	EPA-365.1	02/06/14	02/06/14 09:03	TDC	KONE-1	1	BXB0346

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Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402735-06 | **Client Sample Name:** JPL-GW, MW-7, 2/5/2014 12:30:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**0.0020**	**mg/L**	**0.0020**	**0.00070**	**EPA-7196**	ND		1
Total Recoverable Chromium	**49**	**ug/L**	**3.0**	**0.50**	**EPA-200.8**	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	02/05/14	02/05/14 23:57	OLH	KONE-1	1	BXB0297
2	EPA-200.8	02/11/14	02/12/14 14:16	SRM	PE-EL2	1	BXB0655

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Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402735-07 | **Client Sample Name:** JPL-GW, DUPE-5-1Q14, 2/5/2014 12:40:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	**0.38**	**ug/L**	**0.50**	**0.14**	**EPA-524.2**	ND	**J**	1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**11**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402735-07 | **Client Sample Name:** JPL-GW, DUPE-5-1Q14, 2/5/2014 12:40:00PM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402735-07 | **Client Sample Name:** JPL-GW, DUPE-5-1Q14, 2/5/2014 12:40:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	97.0	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	86.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/07/14	02/08/14 08:27	MGC	MS-V5	1	BXB0395

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Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402735-07 | **Client Sample Name:** JPL-GW, DUPE-5-1Q14, 2/5/2014 12:40:00PM, 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/07/14	02/08/14 08:27	MGC	MS-V5	1	BXB0395

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Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402735-07 | **Client Sample Name:** JPL-GW, DUPE-5-1Q14, 2/5/2014 12:40:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride	**79**	**mg/L**	**0.50**	**0.067**	**EPA-300.0**	ND		1
Nitrate as N	**1.1**	**mg/L**	**0.10**	**0.025**	**EPA-300.0**	ND		1
Sulfate	**42**	**mg/L**	**1.0**	**0.18**	**EPA-300.0**	ND		1
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		2
Perchlorate	**2.0**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND	**J**	3
ortho-Phosphate as P	**0.026**	**mg/L**	**0.020**	**0.0040**	**EPA-365.1**	ND		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	02/06/14	02/06/14 18:36	OLH	IC2	1	BXB0420
2	EPA-353.2	02/06/14	02/06/14 08:46	TDC	KONE-1	1	BXB0343
3	EPA-314.0	02/19/14	02/20/14 00:57	LD1	IC6	1	BXB1394
4	EPA-365.1	02/06/14	02/06/14 09:03	TDC	KONE-1	1	BXB0346

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Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402735-07 | **Client Sample Name:** JPL-GW, DUPE-5-1Q14, 2/5/2014 12:40:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**0.0013**	**mg/L**	**0.0020**	**0.00070**	**EPA-7196**	ND	**J**	1
Total Recoverable Chromium	**42**	**ug/L**	**3.0**	**0.50**	**EPA-200.8**	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	02/05/14	02/06/14 00:01	OLH	KONE-1	1	BXB0297
2	EPA-200.8	02/11/14	02/12/14 14:19	SRM	PE-EL2	1	BXB0655

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Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402735-08 | **Client Sample Name:** JPL-GW, MW-15, 2/5/2014 1:35:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	02/05/14	02/06/14 00:01	OLH	KONE-1	1	BXB0297
2	EPA-200.8	02/11/14	02/12/14 14:22	SRM	PE-EL2	1	BXB0655

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Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402735-09 | **Client Sample Name:** JPL-GW, MW-16, 2/5/2014 2:00:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	**9.8**	**ug/L**	**0.50**	**0.14**	**EPA-524.2**	ND		1
Bromoform	**6.8**	**ug/L**	**0.50**	**0.27**	**EPA-524.2**	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	**0.19**	**ug/L**	**0.50**	**0.18**	**EPA-524.2**	ND	**J**	1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**9.3**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	**9.0**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402735-09 | **Client Sample Name:** JPL-GW, MW-16, 2/5/2014 2:00:00PM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402735-09 | **Client Sample Name:** JPL-GW, MW-16, 2/5/2014 2:00:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	102	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	87.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/07/14	02/08/14 08:49	MGC	MS-V5	1	BXB0395

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Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402735-09 | **Client Sample Name:** JPL-GW, MW-16, 2/5/2014 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/07/14	02/08/14 08:49	MGC	MS-V5	1	BXB0395

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Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402735-09 | **Client Sample Name:** JPL-GW, MW-16, 2/5/2014 2:00:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride	**79**	**mg/L**	**0.50**	**0.067**	**EPA-300.0**	ND		1
Nitrate as N	**1.3**	**mg/L**	**0.10**	**0.025**	**EPA-300.0**	ND		1
Sulfate	**41**	**mg/L**	**1.0**	**0.18**	**EPA-300.0**	ND		1
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		2
Perchlorate	**2.3**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND	**J**	3
ortho-Phosphate as P	**0.28**	**mg/L**	**0.020**	**0.0040**	**EPA-365.1**	ND		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	02/06/14	02/06/14 18:52	OLH	IC2	1	BXB0420
2	EPA-353.2	02/06/14	02/06/14 08:46	TDC	KONE-1	1	BXB0343
3	EPA-314.0	02/19/14	02/20/14 01:11	LD1	IC6	1	BXB1394
4	EPA-365.1	02/06/14	02/06/14 09:03	TDC	KONE-1	1	BXB0346

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Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402735-09 | **Client Sample Name:** JPL-GW, MW-16, 2/5/2014 2:00:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**0.015**	**mg/L**	**0.0020**	**0.00070**	**EPA-7196**	ND		1
Total Recoverable Chromium	**410**	**ug/L**	**3.0**	**0.50**	**EPA-200.8**	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	02/05/14	02/06/14 00:01	OLH	KONE-1	1	BXB0297
2	EPA-200.8	02/11/14	02/12/14 14:26	SRM	PE-EL2	1	BXB0655

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0134						
Benzene	BXB0134-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXB0134-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXB0134-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXB0134-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXB0134-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXB0134-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXB0134-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXB0134-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXB0134-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXB0134-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXB0134-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXB0134-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXB0134-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXB0134-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXB0134-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXB0134-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BXB0134-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXB0134-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXB0134-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXB0134-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXB0134-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXB0134-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXB0134-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXB0134-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXB0134-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXB0134-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXB0134-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXB0134-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXB0134-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXB0134-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXB0134-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXB0134-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXB0134-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXB0134-BLK1	ND	ug/L	0.50	0.14	

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Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0134						
trans-1,3-Dichloropropene	BXB0134-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXB0134-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXB0134-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXB0134-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXB0134-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXB0134-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXB0134-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXB0134-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXB0134-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXB0134-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXB0134-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BXB0134-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BXB0134-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXB0134-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXB0134-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXB0134-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BXB0134-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXB0134-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXB0134-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXB0134-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXB0134-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXB0134-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXB0134-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXB0134-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXB0134-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXB0134-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXB0134-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXB0134-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXB0134-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXB0134-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXB0134-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXB0134-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXB0134-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXB0134-BLK1	ND	ug/L	4.0	0.97	

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Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0134						
Ethyl t-butyl ether	BXB0134-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXB0134-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXB0134-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXB0134-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXB0134-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXB0134-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXB0134-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXB0134-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXB0134-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXB0134-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXB0134-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXB0134-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXB0134-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	**BXB0134-BLK1**	**103**	%	**75 - 125 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**BXB0134-BLK1**	**99.8**	%	**80 - 120 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**BXB0134-BLK1**	**89.7**	%	**80 - 120 (LCL - UCL)**		
QC Batch ID: BXB0395						
Benzene	BXB0395-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXB0395-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXB0395-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXB0395-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXB0395-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXB0395-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXB0395-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXB0395-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXB0395-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXB0395-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXB0395-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXB0395-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXB0395-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXB0395-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXB0395-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXB0395-BLK1	ND	ug/L	0.50	0.15	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0395						
Dibromochloromethane	BXB0395-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXB0395-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXB0395-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXB0395-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXB0395-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXB0395-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXB0395-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXB0395-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXB0395-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXB0395-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXB0395-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXB0395-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXB0395-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXB0395-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXB0395-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXB0395-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXB0395-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXB0395-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	BXB0395-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXB0395-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXB0395-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXB0395-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXB0395-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXB0395-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXB0395-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXB0395-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXB0395-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXB0395-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXB0395-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BXB0395-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BXB0395-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXB0395-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXB0395-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXB0395-BLK1	ND	ug/L	0.50	0.19	

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Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0395						
1,1,1-Trichloroethane	BXB0395-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXB0395-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXB0395-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXB0395-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXB0395-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXB0395-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXB0395-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXB0395-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXB0395-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXB0395-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXB0395-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXB0395-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXB0395-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXB0395-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXB0395-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXB0395-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXB0395-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXB0395-BLK1	ND	ug/L	4.0	0.97	
Ethyl t-butyl ether	BXB0395-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXB0395-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXB0395-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXB0395-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXB0395-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXB0395-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXB0395-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXB0395-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXB0395-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXB0395-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXB0395-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXB0395-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXB0395-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	**BXB0395-BLK1**	**98.6**	%	**75 - 125 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**BXB0395-BLK1**	**98.1**	%	**80 - 120 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**BXB0395-BLK1**	**90.8**	%	**80 - 120 (LCL - UCL)**		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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 Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXB0134										
Benzene	BXB0134-BS1	LCS	25.920	25.000	ug/L	104		70 - 130		
Bromodichloromethane	BXB0134-BS1	LCS	27.030	25.000	ug/L	108		70 - 130		
Chlorobenzene	BXB0134-BS1	LCS	27.060	25.000	ug/L	108		70 - 130		
Chloroethane	BXB0134-BS1	LCS	23.520	25.000	ug/L	94.1		70 - 130		
1,4-Dichlorobenzene	BXB0134-BS1	LCS	28.250	25.000	ug/L	113		70 - 130		
1,1-Dichloroethane	BXB0134-BS1	LCS	26.760	25.000	ug/L	107		70 - 130		
1,1-Dichloroethene	BXB0134-BS1	LCS	28.430	25.000	ug/L	114		70 - 130		
Toluene	BXB0134-BS1	LCS	25.440	25.000	ug/L	102		70 - 130		
Trichloroethene	BXB0134-BS1	LCS	26.800	25.000	ug/L	107		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXB0134-BS1	LCS	9.9500	10.000	ug/L	99.5		75 - 125		
Toluene-d8 (Surrogate)	BXB0134-BS1	LCS	9.4000	10.000	ug/L	94.0		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXB0134-BS1	LCS	10.070	10.000	ug/L	101		80 - 120		
QC Batch ID: BXB0395										
Benzene	BXB0395-BS1	LCS	26.610	25.000	ug/L	106		70 - 130		
Bromodichloromethane	BXB0395-BS1	LCS	27.180	25.000	ug/L	109		70 - 130		
Chlorobenzene	BXB0395-BS1	LCS	26.960	25.000	ug/L	108		70 - 130		
Chloroethane	BXB0395-BS1	LCS	29.020	25.000	ug/L	116		70 - 130		
1,4-Dichlorobenzene	BXB0395-BS1	LCS	26.900	25.000	ug/L	108		70 - 130		
1,1-Dichloroethane	BXB0395-BS1	LCS	26.880	25.000	ug/L	108		70 - 130		
1,1-Dichloroethene	BXB0395-BS1	LCS	27.930	25.000	ug/L	112		70 - 130		
Toluene	BXB0395-BS1	LCS	25.310	25.000	ug/L	101		70 - 130		
Trichloroethene	BXB0395-BS1	LCS	29.480	25.000	ug/L	118		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXB0395-BS1	LCS	9.9400	10.000	ug/L	99.4		75 - 125		
Toluene-d8 (Surrogate)	BXB0395-BS1	LCS	9.5100	10.000	ug/L	95.1		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXB0395-BS1	LCS	9.7600	10.000	ug/L	97.6		80 - 120		

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXB0134	Used client sample: Y - Description: MW-4-1, 01/27/2014 10:40										
Benzene	MS	1401914-07	ND	27.130	25.000	ug/L		109		70 - 130	
	MSD	1401914-07	ND	24.380	25.000	ug/L	10.7	97.5	20	70 - 130	
Bromodichloromethane	MS	1401914-07	ND	28.230	25.000	ug/L		113		70 - 130	
	MSD	1401914-07	ND	26.560	25.000	ug/L	6.1	106	20	70 - 130	
Chlorobenzene	MS	1401914-07	ND	27.520	25.000	ug/L		110		70 - 130	
	MSD	1401914-07	ND	25.440	25.000	ug/L	7.9	102	20	70 - 130	
Chloroethane	MS	1401914-07	ND	24.590	25.000	ug/L		98.4		70 - 130	
	MSD	1401914-07	ND	22.360	25.000	ug/L	9.5	89.4	20	70 - 130	
1,4-Dichlorobenzene	MS	1401914-07	ND	30.230	25.000	ug/L		121		70 - 130	
	MSD	1401914-07	ND	28.440	25.000	ug/L	6.1	114	20	70 - 130	
1,1-Dichloroethane	MS	1401914-07	ND	27.840	25.000	ug/L		111		70 - 130	
	MSD	1401914-07	ND	25.090	25.000	ug/L	10.4	100	20	70 - 130	
1,1-Dichloroethene	MS	1401914-07	ND	29.510	25.000	ug/L		118		70 - 130	
	MSD	1401914-07	ND	26.250	25.000	ug/L	11.7	105	20	70 - 130	
Toluene	MS	1401914-07	ND	26.340	25.000	ug/L		105		70 - 130	
	MSD	1401914-07	ND	24.950	25.000	ug/L	5.4	99.8	20	70 - 130	
Trichloroethene	MS	1401914-07	ND	27.040	25.000	ug/L		108		70 - 130	
	MSD	1401914-07	ND	25.750	25.000	ug/L	4.9	103	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1401914-07	ND	10.720	10.000	ug/L		107		75 - 125	
	MSD	1401914-07	ND	10.190	10.000	ug/L	5.1	102		75 - 125	
Toluene-d8 (Surrogate)	MS	1401914-07	ND	9.6300	10.000	ug/L		96.3		80 - 120	
	MSD	1401914-07	ND	9.7900	10.000	ug/L	1.6	97.9		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1401914-07	ND	10.230	10.000	ug/L		102		80 - 120	
	MSD	1401914-07	ND	10.450	10.000	ug/L	2.1	104		80 - 120	
QC Batch ID: BXB0395	Used client sample: Y - Description: MW-26-1, 01/30/2014 09:45										
Benzene	MS	1402191-07	ND	23.720	25.000	ug/L		94.9		70 - 130	
	MSD	1402191-07	ND	24.510	25.000	ug/L	3.3	98.0	20	70 - 130	
Bromodichloromethane	MS	1402191-07	ND	23.680	25.000	ug/L		94.7		70 - 130	
	MSD	1402191-07	ND	26.170	25.000	ug/L	10.0	105	20	70 - 130	
Chlorobenzene	MS	1402191-07	ND	24.920	25.000	ug/L		99.7		70 - 130	
	MSD	1402191-07	ND	25.340	25.000	ug/L	1.7	101	20	70 - 130	
Chloroethane	MS	1402191-07	ND	25.070	25.000	ug/L		100		70 - 130	
	MSD	1402191-07	ND	26.250	25.000	ug/L	4.6	105	20	70 - 130	
1,4-Dichlorobenzene	MS	1402191-07	ND	26.190	25.000	ug/L		105		70 - 130	
	MSD	1402191-07	ND	27.100	25.000	ug/L	3.4	108	20	70 - 130	
1,1-Dichloroethane	MS	1402191-07	ND	23.590	25.000	ug/L		94.4		70 - 130	
	MSD	1402191-07	ND	24.220	25.000	ug/L	2.6	96.9	20	70 - 130	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXB0395	Used client sample: Y - Description: MW-26-1, 01/30/2014 09:45										
1,1-Dichloroethene	MS	1402191-07	ND	24.460	25.000	ug/L		97.8		70 - 130	
	MSD	1402191-07	ND	25.170	25.000	ug/L	2.9	101	20	70 - 130	
Toluene	MS	1402191-07	ND	22.550	25.000	ug/L		90.2		70 - 130	
	MSD	1402191-07	ND	24.210	25.000	ug/L	7.1	96.8	20	70 - 130	
Trichloroethene	MS	1402191-07	0.37000	24.110	25.000	ug/L		95.0		70 - 130	
	MSD	1402191-07	0.37000	25.670	25.000	ug/L	6.3	101	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1402191-07	ND	9.6800	10.000	ug/L		96.8		75 - 125	
	MSD	1402191-07	ND	9.7000	10.000	ug/L	0.2	97.0		75 - 125	
Toluene-d8 (Surrogate)	MS	1402191-07	ND	9.3800	10.000	ug/L		93.8		80 - 120	
	MSD	1402191-07	ND	9.7200	10.000	ug/L	3.6	97.2		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1402191-07	ND	10.360	10.000	ug/L		104		80 - 120	
	MSD	1402191-07	ND	10.420	10.000	ug/L	0.6	104		80 - 120	

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Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0134						
Chloroacetonitrile	BXB0134-BLK1	0	ug/L			
1-Chlorobutane	BXB0134-BLK1	0	ug/L			
1,1-Dichloropropanone	BXB0134-BLK1	0	ug/L			
Methyl acrylate	BXB0134-BLK1	0	ug/L			
Nitrobenzene	BXB0134-BLK1	0	ug/L			
2-Nitropropane	BXB0134-BLK1	0	ug/L			
QC Batch ID: BXB0395						
Chloroacetonitrile	BXB0395-BLK1	0	ug/L			
1-Chlorobutane	BXB0395-BLK1	0	ug/L			
1,1-Dichloropropanone	BXB0395-BLK1	0	ug/L			
Methyl acrylate	BXB0395-BLK1	0	ug/L			
Nitrobenzene	BXB0395-BLK1	0	ug/L			
2-Nitropropane	BXB0395-BLK1	0	ug/L			

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Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0343						
Nitrite as N	BXB0343-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXB0346						
ortho-Phosphate as P	BXB0346-BLK1	ND	mg/L	0.020	0.0040	
QC Batch ID: BXB0420						
Chloride	BXB0420-BLK1	ND	mg/L	0.50	0.067	
Nitrate as N	BXB0420-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXB0420-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXB1394						
Perchlorate	BXB1394-BLK1	ND	ug/L	4.0	0.45	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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 Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXB0343										
Nitrite as N	BXB0343-BS1	LCS	0.50380	0.50000	mg/L	101		90 - 110		
QC Batch ID: BXB0346										
ortho-Phosphate as P	BXB0346-BS1	LCS	0.18904	0.20000	mg/L	94.5		90 - 110		
QC Batch ID: BXB0420										
Chloride	BXB0420-BS1	LCS	50.639	50.000	mg/L	101		90 - 110		
Nitrate as N	BXB0420-BS1	LCS	4.9460	5.0000	mg/L	98.9		90 - 110		
Sulfate	BXB0420-BS1	LCS	101.65	100.00	mg/L	102		90 - 110		
QC Batch ID: BXB1394										
Perchlorate	BXB1394-BS1	LCS	9.5785	10.000	ug/L	95.8		85 - 115		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXB0343	Used client sample: Y - Description: MW-13, 02/05/2014 09:50										
Nitrite as N	DUP	1402735-04	ND	ND		mg/L			10		
	MS	1402735-04	ND	0.53070	0.52632	mg/L		101		90 - 110	
	MSD	1402735-04	ND	0.53077	0.52632	mg/L	0.0	101	10	90 - 110	
QC Batch ID: BXB0346	Used client sample: Y - Description: MW-13, 02/05/2014 09:50										
ortho-Phosphate as P	DUP	1402735-04	0.014305	0.015157		mg/L	5.8		10		J
	MS	1402735-04	0.014305	0.21891	0.21053	mg/L		97.2		90 - 110	
	MSD	1402735-04	0.014305	0.22010	0.21053	mg/L	0.5	97.8	10	90 - 110	
QC Batch ID: BXB0420	Used client sample: Y - Description: MW-13, 02/05/2014 09:50										
Chloride	DUP	1402735-04	107.38	109.68		mg/L	2.1		10		
	MS	1402735-04	107.38	160.54	50.505	mg/L		105		80 - 120	
	MSD	1402735-04	107.38	161.04	50.505	mg/L	0.3	106	10	80 - 120	
Nitrate as N	DUP	1402735-04	9.6950	9.9180		mg/L	2.3		10		
	MS	1402735-04	9.6950	15.321	5.0505	mg/L		111		80 - 120	
	MSD	1402735-04	9.6950	15.367	5.0505	mg/L	0.3	112	10	80 - 120	
Sulfate	DUP	1402735-04	127.91	130.28		mg/L	1.8		10		
	MS	1402735-04	127.91	236.35	101.01	mg/L		107		80 - 120	
	MSD	1402735-04	127.91	237.22	101.01	mg/L	0.4	108	10	80 - 120	
QC Batch ID: BXB1394	Used client sample: N										
Perchlorate	DUP	1402712-01	ND	ND		ug/L			15		
	MS	1402712-01	ND	9.1704	10.101	ug/L		90.8		80 - 120	
	MSD	1402712-01	ND	8.6630	10.101	ug/L	5.7	85.8	15	80 - 120	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0297						
Hexavalent Chromium	BXB0297-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BXB0655						
Total Recoverable Chromium	BXB0655-BLK1	ND	ug/L	3.0	0.50	

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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 Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXB0297										
Hexavalent Chromium	BXB0297-BS1	LCS	0.050375	0.050000	mg/L	101		85 - 115		
QC Batch ID: BXB0655										
Total Recoverable Chromium	BXB0655-BS1	LCS	38.605	40.000	ug/L	96.5		85 - 115		
	BXB0655-BSD1	LCSD	39.605	40.000	ug/L	99.0	2.6	85 - 115	20	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXB0297	Used client sample: Y - Description: EB-8-2/5/14, 02/05/2014 07:15										
Hexavalent Chromium	DUP	1402735-02	ND	ND		mg/L			10		
	MS	1402735-02	ND	0.054425	0.052632	mg/L		103		85 - 115	
	MSD	1402735-02	ND	0.054492	0.052632	mg/L	0.1	104	10	85 - 115	
QC Batch ID: BXB0655	Used client sample: N										
Total Recoverable Chromium	DUP	**1402964-02**	**0.86600**	**1.1280**		**ug/L**	**26.3**		**20**		**J,A02**
	MS	**1402964-02**	**0.86600**	**40.088**	**40.000**	**ug/L**		**98.1**		**70 - 130**	
	MSD	**1402964-02**	**0.86600**	**39.883**	**40.000**	**ug/L**	**0.5**	**97.5**	**20**	**70 - 130**	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/21/2014 13:30
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.
A02	The difference between duplicate readings is less than the PQL.

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Date of Report: 02/24/2014

David Conner

Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Client Project:	1st Qtr.
BCL Project:	JPL- GW Monitoring Wells
BCL Work Order:	1402878
Invoice ID:	B166895

Enclosed are the results of analyses for samples received by the laboratory on 2/6/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton
Client Service Rep

Authorized Signature

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BC Laboratories, Inc. — Chain of Custody Form

*Required Fields

Page 1 of 1

Report To: Client:* Tidewater, Inc.	Project Description:* JPL-GW Monitoring
Attn:* David Conner	
Street Address:* 3761 Attucks Drive	Project Code:* 1st Qtr.
City:* Powell State:* OH Zip:* 43065	
Phone#:* (614) 792 - 2897 Fax#: (614) 792 - 2897	Sampler (s):* Blaine Tech
Email Address: david.conner@tideh2o.net	
Submission #: 14-02878	

Billing

Client:* Tidewater, Inc. (P.O. #1213-000-02)
Attn:* As directed by Ben Headington
Address:* 6625 Selnick Drive, Suite A
City:* Elkridge State:* MD Zip:* 21075
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*	VOCs EPA 524.2	Total Chromium 200.8 (ug/L)	Perchlorate 314.0	Hexavalent Cr6 - 7196 (mg/L)	Chloride, Nitrate, Sulfate	Orthophosphate 365.1	Nitrite 353.2	Notes
-1	TB-9-2/6/14	2-6-14	0900	AQ	X							
-2	MW-6		0815		X	X	X	X				
-3	MW-5		0935		X	X	X	X				
-4	~~MW-~~ DUPE-6-1Q14		0945		X	X	X	X				
-5	MW-8		1055		X	X	X	X	X	X	X	Level IV
-6	DUPE-7-1Q14		1105		X	X	X	X				
-7	MW-10		1215		X	X	X	X				MS/MSD

CHK BY: MM MK SK
DISTRIBUTION: LAB ☐ SUB-OUT ☐

SHORT HOLDING TIME: Cr^{+6} NO_2 NO_3 OP SS | DO Cl_2 BOD MBAS COT

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

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

Lab TAT Approval: _____ *Additional Charges May Apply

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

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

Cost Center: _____ Global ID: _____

	Relinquished By:	Date	Time	Received By:	Date	Time
1.		2-6-14	1510	Nicole	2/6/14	1510
2.	Nicole	2/6/14	1605		2/6/14	1605
3.		2/6/14	1945		2/6/14	1945

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

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Chain of Custody and Cooler Receipt Form for 1402878 Page 2 of 2

BC LABORATORIES INC. **COOLER RECEIPT FORM** Rev. No. 15 07/01/13 Page 1 of

Submission #: 14-02878

SHIPPING INFORMATION	SHIPPING CONTAINER	FREE LIQUID
Federal Express ☐ UPS ☐ Hand Delivery	Ice Chest ☑ None ☐ Box ☐	YES ☐ NO ☐
BC Lab Field Service ☑ Other ☐ (Specify)_____	Other ☐ (Specify)_____	

Refrigerant: Ice ☑ Blue Ice ☐ None ☐ Other ☐ Comments:

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

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

COC Received ☑ YES ☐ NO

Emissivity: 0.95 Container: QTPE Thermometer ID: 207

Temperature: (A) 1.1 °C / (C) 1.1 °C

Date/Time 2-6-14 2020

Analyst Init KIQ

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL		B	B	B	B	B	B			
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS		C	C	C	C	C	C			
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PtA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A(1)									
40ml VOA VIAL	( )	A(3)	A(3)	A(3)	A(3)	A(3)	A(6)	( )	( )	( )
QT EPA 413.1, 413.2, 418.1										
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										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:

Sample Numbering Completed By: KIQ Date/Time: 2-6-14 @2150

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1402878-01	**COC Number:**	---	**Receive Date:**	02/06/2014 19:45
	Project Number:	JPL-GW	**Sampling Date:**	02/06/2014 07:00
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	TB-9-2/6/14	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Trip Blank
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): TB-9-2/6/14	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402878-02	**COC Number:**	---	**Receive Date:**	02/06/2014 19:45
	Project Number:	JPL-GW	**Sampling Date:**	02/06/2014 08:15
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-6	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Aqueous
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-6	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402878-03	**COC Number:**	---	**Receive Date:**	02/06/2014 19:45
	Project Number:	JPL-GW	**Sampling Date:**	02/06/2014 09:35
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-5	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Aqueous
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-5	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information			
1402878-04	**COC Number:**	---	**Receive Date:**	02/06/2014 19:45
	Project Number:	JPL-GW	**Sampling Date:**	02/06/2014 09:45
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	DUPE-6-1Q14	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Aqueous
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): DUPE-6-1Q14	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402878-05	**COC Number:**	---	**Receive Date:**	02/06/2014 19:45
	Project Number:	JPL-GW	**Sampling Date:**	02/06/2014 10:55
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	MW-8	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Aqueous
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-8	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	
1402878-06	**COC Number:**	---	**Receive Date:**	02/06/2014 19:45
	Project Number:	JPL-GW	**Sampling Date:**	02/06/2014 11:05
	Sampling Location:	---	**Sample Depth:**	---
	Sampling Point:	DUPE-7-1Q14	**Lab Matrix:**	Water
	Sampled By:	Blaine Tech of BAT	**Sample Type:**	Aqueous
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): DUPE-7-1Q14	
			Matrix: W	
			Sample QC Type (SACode): CS	
			Cooler ID:	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information

1402878-07

COC Number: ---
Project Number: JPL-GW
Sampling Location: ---
Sampling Point: MW-10
Sampled By: Blaine Tech of BAT

Receive Date: 02/06/2014 19:45
Sampling Date: 02/06/2014 12:15
Sample Depth: ---
Lab Matrix: Water
Sample Type: Aqueous
Delivery Work Order:
Global ID: 0000000000
Location ID (FieldPoint): MW-10
Matrix: W
Sample QC Type (SACode): CS
Cooler ID:

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402878-01 | **Client Sample Name:** JPL-GW, TB-9-2/6/14, 2/6/2014 7:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402878-01 | **Client Sample Name:** JPL-GW, TB-9-2/6/14, 2/6/2014 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	**15**	**ug/L**	**0.50**	**0.48**	**EPA-524.2**	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402878-01 | **Client Sample Name:** JPL-GW, TB-9-2/6/14, 2/6/2014 7:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	96.0	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/13/14	02/14/14 04:06	MGC	MS-V5	1	BXB0924

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Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402878-01 | **Client Sample Name:** JPL-GW, TB-9-2/6/14, 2/6/2014 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
1	EPA-524.2	02/13/14	02/14/14 04:06	MGC	MS-V5	1	BXB0924

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Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402878-02 | **Client Sample Name:** JPL-GW, MW-6, 2/6/2014 8:15:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.78**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	**0.29**	**ug/L**	**0.50**	**0.11**	**EPA-524.2**	ND	**J**	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	**0.24**	**ug/L**	**0.50**	**0.18**	**EPA-524.2**	ND	**J**	1
cis-1,2-Dichloroethene	**0.13**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402878-02 | **Client Sample Name:** JPL-GW, MW-6, 2/6/2014 8:15:00AM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	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**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**4.2**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402878-02 | **Client Sample Name:** JPL-GW, MW-6, 2/6/2014 8:15:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	97.2	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/13/14	02/14/14 04:28	MGC	MS-V5	1	BXB0924

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Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402878-02 | **Client Sample Name:** JPL-GW, MW-6, 2/6/2014 8:15:00AM, 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
1	EPA-524.2	02/13/14	02/14/14 04:28	MGC	MS-V5	1	BXB0924

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Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402878-02 | **Client Sample Name:** JPL-GW, MW-6, 2/6/2014 8:15:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**2.9**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/20/14	02/20/14 21:17	OLH	IC6	1	BXB1505

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Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402878-02 | **Client Sample Name:** JPL-GW, MW-6, 2/6/2014 8:15:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	**8.1**	**ug/L**	**3.0**	**0.50**	**EPA-200.8**	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	02/06/14	02/06/14 23:45	OLH	KONE-1	1	BXB0445
2	EPA-200.8	02/13/14	02/20/14 13:13	SRM	PE-EL2	1	BXB0941

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Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402878-03 | **Client Sample Name:** JPL-GW, MW-5, 2/6/2014 9:35:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.97**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402878-03 | **Client Sample Name:** JPL-GW, MW-5, 2/6/2014 9:35:00AM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	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**	**0.13**	**EPA-524.2**	ND	**J**	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**3.6**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402878-03 | **Client Sample Name:** JPL-GW, MW-5, 2/6/2014 9:35:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	94.1	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/13/14	02/14/14 04:51	MGC	MS-V5	1	BXB0924

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Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402878-03 | **Client Sample Name:** JPL-GW, MW-5, 2/6/2014 9:35:00AM, Blaine Tech

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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/13/14	02/14/14 04:51	MGC	MS-V5	1	BXB0924

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Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402878-03 | **Client Sample Name:** JPL-GW, MW-5, 2/6/2014 9:35:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**10**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/20/14	02/21/14 11:53	OLH	IC6	1	BXB1505

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Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402878-03 | **Client Sample Name:** JPL-GW, MW-5, 2/6/2014 9:35:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	**0.70**	**ug/L**	**3.0**	**0.50**	**EPA-200.8**	ND	**J**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	02/06/14	02/06/14 23:45	OLH	KONE-1	1	BXB0445
2	EPA-200.8	02/13/14	02/20/14 13:16	SRM	PE-EL2	1	BXB0941

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Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402878-04 | **Client Sample Name:** JPL-GW, DUPE-6-1Q14, 2/6/2014 9:45:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.84**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402878-04 | **Client Sample Name:** JPL-GW, DUPE-6-1Q14, 2/6/2014 9:45:00AM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**0.38**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**3.2**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402878-04 | **Client Sample Name:** JPL-GW, DUPE-6-1Q14, 2/6/2014 9:45:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	93.0	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/13/14	02/14/14 05:14	MGC	MS-V5	1	BXB0924

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402878-04 | **Client Sample Name:** JPL-GW, DUPE-6-1Q14, 2/6/2014 9:45:00AM, 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
1	EPA-524.2	02/13/14	02/14/14 05:14	MGC	MS-V5	1	BXB0924

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Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402878-04 | **Client Sample Name:** JPL-GW, DUPE-6-1Q14, 2/6/2014 9:45:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**9.7**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/20/14	02/20/14 21:45	OLH	IC6	1	BXB1505

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Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402878-04 | **Client Sample Name:** JPL-GW, DUPE-6-1Q14, 2/6/2014 9:45:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	**0.69**	**ug/L**	**3.0**	**0.50**	**EPA-200.8**	ND	**J**	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	02/06/14	02/06/14 23:45	OLH	KONE-1	1	BXB0445
2	EPA-200.8	02/13/14	02/20/14 13:19	SRM	PE-EL2	1	BXB0941

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Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402878-05 | **Client Sample Name:** JPL-GW, MW-8, 2/6/2014 10:55:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	**2.6**	**ug/L**	**0.50**	**0.14**	**EPA-524.2**	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**6.1**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	**0.60**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402878-05 | **Client Sample Name:** JPL-GW, MW-8, 2/6/2014 10:55:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.19**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
Trichlorofluoromethane	**0.15**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402878-05 | **Client Sample Name:** JPL-GW, MW-8, 2/6/2014 10:55:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	96.0	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/13/14	02/14/14 05:36	MGC	MS-V5	1	BXB0924

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Powell, OH 43065

Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402878-05 | **Client Sample Name:** JPL-GW, MW-8, 2/6/2014 10:55:00AM, 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
1	EPA-524.2	02/13/14	02/14/14 05:36	MGC	MS-V5	1	BXB0924

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Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402878-05 | **Client Sample Name:** JPL-GW, MW-8, 2/6/2014 10:55:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride	**50**	**mg/L**	**0.50**	**0.067**	**EPA-300.0**	0.19		1
Nitrate as N	**2.1**	**mg/L**	**0.10**	**0.025**	**EPA-300.0**	ND		1
Sulfate	**38**	**mg/L**	**1.0**	**0.18**	**EPA-300.0**	0.32		1
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		2
Perchlorate	**93**	**ug/L**	**40**	**4.5**	**EPA-314.0**	ND	**A01**	3
ortho-Phosphate as P	**0.0047**	**mg/L**	**0.020**	**0.0040**	**EPA-365.1**	ND	**J**	4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	02/06/14	02/07/14 15:17	LD1	IC1	1	BXB0417
2	EPA-353.2	02/07/14	02/07/14 09:37	TDC	KONE-1	1	BXB0468
3	EPA-314.0	02/20/14	02/21/14 12:21	OLH	IC6	10	BXB1505
4	EPA-365.1	02/07/14	02/07/14 08:50	TDC	KONE-1	1	BXB0472

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Powell, OH 43065

Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402878-05 | **Client Sample Name:** JPL-GW, MW-8, 2/6/2014 10:55:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**0.0014**	**mg/L**	**0.0020**	**0.00070**	**EPA-7196**	ND	**J**	1
Total Recoverable Chromium	**3.0**	**ug/L**	**3.0**	**0.50**	**EPA-200.8**	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	02/06/14	02/06/14 23:45	OLH	KONE-1	1	BXB0445
2	EPA-200.8	02/13/14	02/20/14 13:23	SRM	PE-EL2	1	BXB0941

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Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402878-06 | **Client Sample Name:** JPL-GW, DUPE-7-1Q14, 2/6/2014 11:05:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	**2.7**	**ug/L**	**0.50**	**0.14**	**EPA-524.2**	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**6.3**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	**0.61**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402878-06 | **Client Sample Name:** JPL-GW, DUPE-7-1Q14, 2/6/2014 11:05:00AM, 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**0.23**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
Trichlorofluoromethane	**0.14**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND	**J**	1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402878-06 | **Client Sample Name:** JPL-GW, DUPE-7-1Q14, 2/6/2014 11:05:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	97.8	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	97.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/13/14	02/14/14 05:59	MGC	MS-V5	1	BXB0924

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Powell, OH 43065

Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402878-06 | **Client Sample Name:** JPL-GW, DUPE-7-1Q14, 2/6/2014 11:05:00AM, Blaine Tech

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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/13/14	02/14/14 05:59	MGC	MS-V5	1	BXB0924

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Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402878-06 | **Client Sample Name:** JPL-GW, DUPE-7-1Q14, 2/6/2014 11:05:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**94**	**ug/L**	**40**	**4.5**	**EPA-314.0**	ND	**A01**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/20/14	02/21/14 12:49	OLH	IC6	10	BXB1505

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Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402878-06 | **Client Sample Name:** JPL-GW, DUPE-7-1Q14, 2/6/2014 11:05:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	**0.0013**	**mg/L**	**0.0020**	**0.00070**	**EPA-7196**	ND	**J**	1
Total Recoverable Chromium	**3.4**	**ug/L**	**3.0**	**0.50**	**EPA-200.8**	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	02/06/14	02/06/14 23:46	OLH	KONE-1	1	BXB0445
2	EPA-200.8	02/13/14	02/20/14 13:26	SRM	PE-EL2	1	BXB0941

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Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402878-07 | **Client Sample Name:** JPL-GW, MW-10, 2/6/2014 12:15:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	**0.69**	**ug/L**	**0.50**	**0.12**	**EPA-524.2**	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	**0.24**	**ug/L**	**0.50**	**0.11**	**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	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	**0.24**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND	**J**	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402878-07 | **Client Sample Name:** JPL-GW, MW-10, 2/6/2014 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	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	**0.78**	**ug/L**	**0.50**	**0.13**	**EPA-524.2**	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	**6.6**	**ug/L**	**0.50**	**0.085**	**EPA-524.2**	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	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	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1402878-07 | **Client Sample Name:** JPL-GW, MW-10, 2/6/2014 12:15:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	97.4	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/13/14	02/14/14 01:50	MGC	MS-V5	1	BXB0924

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Powell, OH 43065

Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1402878-07 | **Client Sample Name:** JPL-GW, MW-10, 2/6/2014 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 Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	02/13/14	02/14/14 01:50	MGC	MS-V5	1	BXB0924

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1402878-07 | **Client Sample Name:** JPL-GW, MW-10, 2/6/2014 12:15:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	**3.4**	**ug/L**	**4.0**	**0.45**	**EPA-314.0**	ND	**J**	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	02/20/14	02/20/14 23:49	LD1	IC6	1	BXB1505

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Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1402878-07 | **Client Sample Name:** JPL-GW, MW-10, 2/6/2014 12:15:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	**7.9**	**ug/L**	**3.0**	**0.50**	**EPA-200.8**	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	02/06/14	02/06/14 23:48	OLH	KONE-1	1	BXB0445
2	EPA-200.8	02/13/14	02/14/14 19:06	SRM	PE-EL2	1	BXB0941

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Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0924						
Benzene	BXB0924-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXB0924-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXB0924-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXB0924-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXB0924-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXB0924-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXB0924-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXB0924-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXB0924-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXB0924-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXB0924-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXB0924-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXB0924-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXB0924-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXB0924-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXB0924-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BXB0924-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXB0924-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXB0924-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXB0924-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXB0924-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXB0924-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXB0924-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXB0924-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXB0924-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXB0924-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXB0924-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXB0924-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXB0924-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXB0924-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXB0924-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXB0924-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXB0924-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXB0924-BLK1	ND	ug/L	0.50	0.14	

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Tidewater Inc.
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Powell, OH 43065

Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0924						
trans-1,3-Dichloropropene	BXB0924-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXB0924-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXB0924-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXB0924-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXB0924-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXB0924-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXB0924-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXB0924-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXB0924-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXB0924-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXB0924-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BXB0924-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BXB0924-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXB0924-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXB0924-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXB0924-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BXB0924-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXB0924-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXB0924-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXB0924-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXB0924-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXB0924-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXB0924-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXB0924-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXB0924-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXB0924-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXB0924-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXB0924-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXB0924-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXB0924-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXB0924-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXB0924-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXB0924-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXB0924-BLK1	ND	ug/L	4.0	0.97	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0924						
Ethyl t-butyl ether	BXB0924-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXB0924-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXB0924-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXB0924-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXB0924-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXB0924-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXB0924-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXB0924-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXB0924-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXB0924-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXB0924-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXB0924-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXB0924-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	**BXB0924-BLK1**	**93.1**	%	**75 - 125 (LCL - UCL)**		
Toluene-d8 (Surrogate)	**BXB0924-BLK1**	**94.3**	%	**80 - 120 (LCL - UCL)**		
4-Bromofluorobenzene (Surrogate)	**BXB0924-BLK1**	**93.3**	%	**80 - 120 (LCL - UCL)**		

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Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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 Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXB0924										
Benzene	BXB0924-BS1	LCS	25.840	25.000	ug/L	103		70 - 130		
Bromodichloromethane	BXB0924-BS1	LCS	24.490	25.000	ug/L	98.0		70 - 130		
Chlorobenzene	BXB0924-BS1	LCS	26.430	25.000	ug/L	106		70 - 130		
Chloroethane	BXB0924-BS1	LCS	28.130	25.000	ug/L	113		70 - 130		
1,4-Dichlorobenzene	BXB0924-BS1	LCS	26.400	25.000	ug/L	106		70 - 130		
1,1-Dichloroethane	BXB0924-BS1	LCS	25.580	25.000	ug/L	102		70 - 130		
1,1-Dichloroethene	BXB0924-BS1	LCS	26.810	25.000	ug/L	107		70 - 130		
Toluene	BXB0924-BS1	LCS	25.580	25.000	ug/L	102		70 - 130		
Trichloroethene	BXB0924-BS1	LCS	29.310	25.000	ug/L	117		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXB0924-BS1	LCS	9.5600	10.000	ug/L	95.6		75 - 125		
Toluene-d8 (Surrogate)	BXB0924-BS1	LCS	9.6600	10.000	ug/L	96.6		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXB0924-BS1	LCS	10.480	10.000	ug/L	105		80 - 120		

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Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXB0924	Used client sample: Y - Description: MW-10, 02/06/2014 12:15										
Benzene	MS	1402878-07	ND	25.090	25.000	ug/L		100		70 - 130	
	MSD	1402878-07	ND	23.970	25.000	ug/L	4.6	95.9	20	70 - 130	
Bromodichloromethane	MS	1402878-07	ND	23.400	25.000	ug/L		93.6		70 - 130	
	MSD	1402878-07	ND	22.830	25.000	ug/L	2.5	91.3	20	70 - 130	
Chlorobenzene	MS	1402878-07	ND	24.940	25.000	ug/L		99.8		70 - 130	
	MSD	1402878-07	ND	23.870	25.000	ug/L	4.4	95.5	20	70 - 130	
Chloroethane	MS	1402878-07	ND	26.020	25.000	ug/L		104		70 - 130	
	MSD	1402878-07	ND	25.150	25.000	ug/L	3.4	101	20	70 - 130	
1,4-Dichlorobenzene	MS	1402878-07	ND	25.720	25.000	ug/L		103		70 - 130	
	MSD	1402878-07	ND	24.140	25.000	ug/L	6.3	96.6	20	70 - 130	
1,1-Dichloroethane	MS	1402878-07	0.24000	24.360	25.000	ug/L		96.5		70 - 130	
	MSD	1402878-07	0.24000	23.570	25.000	ug/L	3.3	93.3	20	70 - 130	
1,1-Dichloroethene	MS	1402878-07	ND	24.710	25.000	ug/L		98.8		70 - 130	
	MSD	1402878-07	ND	24.340	25.000	ug/L	1.5	97.4	20	70 - 130	
Toluene	MS	1402878-07	ND	24.120	25.000	ug/L		96.5		70 - 130	
	MSD	1402878-07	ND	23.490	25.000	ug/L	2.6	94.0	20	70 - 130	
Trichloroethene	MS	1402878-07	6.5600	29.540	25.000	ug/L		91.9		70 - 130	
	MSD	1402878-07	6.5600	29.020	25.000	ug/L	1.8	89.8	20	70 - 130	
1,2-Dichloroethane-d4 (Surrogate)	MS	1402878-07	ND	9.4900	10.000	ug/L		94.9		75 - 125	
	MSD	1402878-07	ND	9.4500	10.000	ug/L	0.4	94.5		75 - 125	
Toluene-d8 (Surrogate)	MS	1402878-07	ND	9.5500	10.000	ug/L		95.5		80 - 120	
	MSD	1402878-07	ND	9.5900	10.000	ug/L	0.4	95.9		80 - 120	
4-Bromofluorobenzene (Surrogate)	MS	1402878-07	ND	10.080	10.000	ug/L		101		80 - 120	
	MSD	1402878-07	ND	9.8500	10.000	ug/L	2.3	98.5		80 - 120	

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Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0924						
Chloroacetonitrile	BXB0924-BLK1	0	ug/L			
1-Chlorobutane	BXB0924-BLK1	0	ug/L			
1,1-Dichloropropanone	BXB0924-BLK1	0	ug/L			
Methyl acrylate	BXB0924-BLK1	0	ug/L			
Nitrobenzene	BXB0924-BLK1	0	ug/L			
2-Nitropropane	BXB0924-BLK1	0	ug/L			

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Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0417						
Chloride	**BXB0417-BLK1**	**0.18800**	**mg/L**	**0.50**	**0.067**	**J**
Nitrate as N	BXB0417-BLK1	ND	mg/L	0.10	0.025	
Sulfate	**BXB0417-BLK1**	**0.32100**	**mg/L**	**1.0**	**0.18**	**J**
QC Batch ID: BXB0468						
Nitrite as N	BXB0468-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXB0472						
ortho-Phosphate as P	BXB0472-BLK1	ND	mg/L	0.020	0.0040	
QC Batch ID: BXB1505						
Perchlorate	BXB1505-BLK1	ND	ug/L	4.0	0.45	

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Powell, OH 43065

Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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 Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXB0417										
Chloride	BXB0417-BS1	LCS	54.268	50.000	mg/L	109		90 - 110		
Nitrate as N	BXB0417-BS1	LCS	5.4860	5.0000	mg/L	110		90 - 110		
Sulfate	BXB0417-BS1	LCS	108.45	100.00	mg/L	108		90 - 110		
QC Batch ID: BXB0468										
Nitrite as N	BXB0468-BS1	LCS	0.51237	0.50000	mg/L	102		90 - 110		
QC Batch ID: BXB0472										
ortho-Phosphate as P	BXB0472-BS1	LCS	0.19630	0.20000	mg/L	98.1		90 - 110		
QC Batch ID: BXB1505										
Perchlorate	BXB1505-BS1	LCS	10.824	10.000	ug/L	108		85 - 115		

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Powell, OH 43065

Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXB0417	Used client sample: N										
Chloride	DUP	1402831-01	126.19	125.52		mg/L	0.5		10		
	MS	1402831-01	126.19	175.60	50.505	mg/L		97.8		80 - 120	
	MSD	1402831-01	126.19	175.73	50.505	mg/L	0.1	98.1	10	80 - 120	
Nitrate as N	DUP	1402831-01	0.21200	0.20700		mg/L	2.4		10		
	MS	1402831-01	0.21200	5.6929	5.0505	mg/L		109		80 - 120	
	MSD	1402831-01	0.21200	5.6495	5.0505	mg/L	0.8	108	10	80 - 120	
Sulfate	DUP	1402831-01	190.82	189.82		mg/L	0.5		10		
	MS	1402831-01	190.82	296.12	101.01	mg/L		104		80 - 120	
	MSD	1402831-01	190.82	296.48	101.01	mg/L	0.1	105	10	80 - 120	
QC Batch ID: BXB0468	Used client sample: Y - Description: MW-8, 02/06/2014 10:55										
Nitrite as N	DUP	1402878-05	ND	ND		mg/L			10		
	MS	1402878-05	ND	0.53103	0.52632	mg/L		101		90 - 110	
	MSD	1402878-05	ND	0.53682	0.52632	mg/L	1.1	102	10	90 - 110	
QC Batch ID: BXB0472	Used client sample: Y - Description: MW-8, 02/06/2014 10:55										
ortho-Phosphate as P	DUP	1402878-05	0.0046680	0.0043240		mg/L	7.7		10		J
	MS	1402878-05	0.0046680	0.21021	0.21053	mg/L		97.6		90 - 110	
	MSD	1402878-05	0.0046680	0.21283	0.21053	mg/L	1.2	98.9	10	90 - 110	
QC Batch ID: BXB1505	Used client sample: Y - Description: MW-10, 02/06/2014 12:15										
Perchlorate	DUP	1402878-07	3.4382	3.6608		ug/L	6.3		15		J
	MS	1402878-07	3.4382	13.232	10.101	ug/L		97.0		80 - 120	
	MSD	1402878-07	3.4382	12.589	10.101	ug/L	5.0	90.6	15	80 - 120	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 02/24/2014 15:51
Project: JPL- GW Monitoring Wells
Project Number: 1st Qtr.
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: BXB0445						
Hexavalent Chromium	BXB0445-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BXB0941						
Total Recoverable Chromium	BXB0941-BLK1	ND	ug/L	3.0	0.50	

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Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits Percent Recovery	Control Limits RPD	Lab Quals
QC Batch ID: BXB0445										
Hexavalent Chromium	BXB0445-BS1	LCS	0.048070	0.050000	mg/L	96.1		85 - 115		
QC Batch ID: BXB0941										
Total Recoverable Chromium	BXB0941-BS1	LCS	41.304	40.000	ug/L	103		85 - 115		

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Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits RPD	Control Limits Percent Recovery	Lab Quals
QC Batch ID: BXB0445	Used client sample: Y - Description: MW-6, 02/06/2014 08:15										
Hexavalent Chromium	DUP	1402878-02	ND	ND		mg/L			10		
	MS	1402878-02	ND	0.053469	0.052632	mg/L		102		85 - 115	
	MSD	1402878-02	ND	0.053431	0.052632	mg/L	0.1	102	10	85 - 115	
QC Batch ID: BXB0941	Used client sample: Y - Description: MW-10, 02/06/2014 12:15										
Total Recoverable Chromium	DUP	1402878-07	7.8760	7.9910		ug/L	1.4		20		
	MS	1402878-07	7.8760	45.902	40.000	ug/L		95.1		70 - 130	
	MSD	1402878-07	7.8760	47.048	40.000	ug/L	2.5	97.9	20	70 - 130	

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Notes And Definitions

J	Estimated Value (CLP Flag)
MDL	Method Detection Limit
ND	Analyte Not Detected at or above the reporting limit
PQL	Practical Quantitation Limit
RPD	Relative Percent Difference
A01	PQL's and MDL's are raised due to sample dilution.

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