

### **ATTACHMENT 3: LABORATORY ANALYTICAL REPORTS**

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



Date of Report: 11/05/2014

David Conner

Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

Client Project: 4th Quarter  
BCL Project: JPL- GW Monitoring Wells  
BCL Work Order: 1424864  
Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 10/20/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton  
Client Service Rep

Authorized Signature

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

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Chain of Custody Form

Page 1 of 2

**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: 21045  
 Are there any tests with holding times?  
 less than or equal to 48 hours?  
 Yes  No  
 \*Standard Turnaround = 10

**Analysis Requested**

Hexavalent Cr (7196)	
Nitrite (353.2)	
Orthophosphate (365.1)	
Chloride, Nitrate, Sulfate (300)	
Perchlorate (EPA 314.0)	
Total Cr (200.8)	
VOCs EPA 524.2	

**Project Description:** JPL-GW Monitoring  
**Project Code:** 4th Quarter  
**Sampler(s):** Blaine Tech

**Report To:** Tidewater, Inc.  
**Client:** 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@tidewater.com  
**Submission #:** 14-24864

Sample #	Sample Description	Date	Time	Matrix*	Notes
-1	TR-1-10/20/14	10-20-14	07:30	AS	
-2	FB-1-10/20/14		07:40		
-3	SR-1-10/20/14		07:45		
-4	MW-20-5		08:30		
-5	MW-20-4		09:10		
-6	MW-20-3		09:40		
-7	MW-20-2		10:10		
-8	MW-20-1A-5		10:50		
-9	MW-19-4		11:30		
-10	MW-19-3		12:00		
-11	MW-19-2		13:00		

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

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

**Lab TAT Approval:** \_\_\_\_\_ \*Additional Charges May Apply

**Global ID:** \_\_\_\_\_

**Cost Center:**  
 1. Requisitioned By: [Signature] Date: 10-20-14 Time: 1445  
 2. Requisitioned By: [Signature] Date: 10-20-14 Time: 1550  
 3. Requisitioned By: [Signature] Date: 10-20-14 Time: 1820

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

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



Chain of Custody Form

Page 2 of 2

**Required Fields**

Report To: **Tidewater, Inc.**  
 Client: **David Conner**  
 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 #: **4-74864**

Project Description: **JPL-GW Monitoring**  
 Project Code: **4th Quarter**  
 Sampler(s): **Blaine Tech**

Analysis Requested

Hexavalent Cr (7196)	
Nitrite (353.2)	
Orthophosphate (365.1)	
Chloride, Nitrate, Sulfate (300)	
Perchlorate (EPA 314.0)	
Total Cr (200.8)	
VOCs EPA 524.2	

Sample # **12** Date **10-20-14** Time **1330** Matrix\* **AG**

Sample Description **MW-17-1**

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

Global ID: \_\_\_\_\_

1. Relinquished By: **NICOLE** Date: **10/20/14** Time: **1445**

2. Relinquished By: **NICOLE** Date: **10/20/14** Time: **1550**

3. Relinquished By: **NICOLE** Date: **10/20/14** Time: **1820**

1. Received By: **NICOLE** Date: **10/20/14** Time: **1445**

2. Received By: **NICOLE** Date: **10/20/14** Time: **1550**

3. Received By: **NICOLE** Date: **10/20/14** Time: **1820**

Cost Center: \_\_\_\_\_

MBU Site  CVX RCRA  Geotracker 5 File (CA Default)  Geotracker 2 File  Other (Specify) \_\_\_\_\_

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

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

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 of 2  
 Submission #: 14-24864

**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  Containers  None  Comments: \_\_\_\_\_  
 Intact? Yes  No  Intact? Yes  No

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

COC Received YES  NO   
 Emissivity: 2.98 Container: PE Thermometer ID: 207 Date/Time: 10/20/14/1840  
 Temperature: (A) 1.1 °C (C) 0.7 °C Analyst Init: N

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/GENERAL		0	0	0	0	0	0	0	0	0
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS		E	E	E	E	E	E	E	E	E
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE /NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A									
40ml VOA VIAL		A/B/C	A/B/C	A/B/C	A/B/C	A/B/C	A/B/C	A/B/C	A/B/C	A/B/C
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										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber 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: 10/20/14 1840 (S:\WPDoc\WordPerfect\LAB\_DOCS\FORMS\ISAMREC)  
 A = Actual / C = Corrected



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 4 of 4

Submission #: A-298104

**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  Containers  None  Comments: \_\_\_\_\_  
 Intact? Yes  No  Intact? Yes  No

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

COC Received  YES  NO  
 Emissivity: 2.98 Container: PE Thermometer ID: 207 Date/Time: 10/20/14 1800  
 Temperature: (A) 1.1 °C (C) 0.7 °C Analyst Init: N

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	B	B								
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	ABC	ABC								
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										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber 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: 10/20/14 1800 [S:\WPDoc\WordPerfect\LAB\_DOCS\FORMS\SAMREC]  
 A = Actual / C = Corrected



Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

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

<b>1424864-01</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> TB-1-10/20/14 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/20/2014 18:20 <b>Sampling Date:</b> 10/20/2014 07:30 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-1-10/20/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1424864-02</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> EB-1-10/20/14 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/20/2014 18:20 <b>Sampling Date:</b> 10/20/2014 07:40 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-1-10/20/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1424864-03</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> SB-1-10/20/14 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/20/2014 18:20 <b>Sampling Date:</b> 10/20/2014 07:45 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): SB-1-10/20/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Powell, OH 43065

**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

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

<b>1424864-04</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-20-5 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/20/2014 18:20 <b>Sampling Date:</b> 10/20/2014 08:30 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> 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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<b>1424864-05</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-20-4 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/20/2014 18:20 <b>Sampling Date:</b> 10/20/2014 09:10 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-20-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1424864-06</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-20-3 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/20/2014 18:20 <b>Sampling Date:</b> 10/20/2014 09:40 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-20-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

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

<b>1424864-07</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-20-2 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/20/2014 18:20 <b>Sampling Date:</b> 10/20/2014 10:10 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> 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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<b>1424864-08</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-19-5 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/20/2014 18:20 <b>Sampling Date:</b> 10/20/2014 10:50 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> 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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<b>1424864-09</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-19-4 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/20/2014 18:20 <b>Sampling Date:</b> 10/20/2014 11:30 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-19-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

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

<b>1424864-10</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-19-3 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/20/2014 18:20 <b>Sampling Date:</b> 10/20/2014 12:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-19-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1424864-11</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-19-2 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/20/2014 18:20 <b>Sampling Date:</b> 10/20/2014 13:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> 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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<b>1424864-12</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-19-1 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/20/2014 18:20 <b>Sampling Date:</b> 10/20/2014 13:30 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-19-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Powell, OH 43065

Reported: 11/05/2014 21:54  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1424864-01	<b>Client Sample Name:</b> JPL-GW, TB-1-10/20/14, 10/20/2014 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	V11	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: 11/05/2014 21:54  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1424864-01	<b>Client Sample Name:</b> JPL-GW, TB-1-10/20/14, 10/20/2014 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1424864-01	<b>Client Sample Name:</b> JPL-GW, TB-1-10/20/14, 10/20/2014 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	V11	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)	98.4	%	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	10/23/14	10/23/14 17:29	MGC	MS-V5	1	BXJ2163

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Powell, OH 43065

**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1424864-01	<b>Client Sample Name:</b> JPL-GW, TB-1-10/20/14, 10/20/2014 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/23/14	10/23/14 17:29	MGC	MS-V5	1	BXJ2163

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Powell, OH 43065

Reported: 11/05/2014 21:54  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1424864-02	<b>Client Sample Name:</b> JPL-GW, EB-1-10/20/14, 10/20/2014 7:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1424864-02	<b>Client Sample Name:</b> JPL-GW, EB-1-10/20/14, 10/20/2014 7:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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	V11	1

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1424864-02	<b>Client Sample Name:</b> JPL-GW, EB-1-10/20/14, 10/20/2014 7:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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	V11	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)	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	10/23/14	10/23/14 20:54	MGC	MS-V5	1	BXJ2163

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Powell, OH 43065

**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1424864-02	<b>Client Sample Name:</b> JPL-GW, EB-1-10/20/14, 10/20/2014 7:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/23/14	10/23/14 20:54	MGC	MS-V5	1	BXJ2163

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Powell, OH 43065

**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1424864-02	<b>Client Sample Name:</b> JPL-GW, EB-1-10/20/14, 10/20/2014 7:40:00AM, Blaine Tech
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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	10/28/14	10/28/14 17:37	LD1	IC6	1	BXJ2658

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1424864-02	<b>Client Sample Name:</b> JPL-GW, EB-1-10/20/14, 10/20/2014 7:40:00AM, Blaine Tech
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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		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	10/20/14	10/20/14 22:58	BMW	KONE-1	1	BXJ1878
2	EPA-200.8	11/01/14	11/03/14 14:34	EAR	PE-EL2	1	BXK0002

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Powell, OH 43065

Reported: 11/05/2014 21:54  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1424864-03	<b>Client Sample Name:</b> JPL-GW, SB-1-10/20/14, 10/20/2014 7:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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: 11/05/2014 21:54  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1424864-03	<b>Client Sample Name:</b> JPL-GW, SB-1-10/20/14, 10/20/2014 7:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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	V11	1

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1424864-03	<b>Client Sample Name:</b> JPL-GW, SB-1-10/20/14, 10/20/2014 7:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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	V11	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)	101	%	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	10/23/14	10/23/14 21:17	MGC	MS-V5	1	BXJ2163

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**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1424864-03	<b>Client Sample Name:</b> JPL-GW, SB-1-10/20/14, 10/20/2014 7:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/23/14	10/23/14 21:17	MGC	MS-V5	1	BXJ2163

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Powell, OH 43065

**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1424864-03	<b>Client Sample Name:</b> JPL-GW, SB-1-10/20/14, 10/20/2014 7:45:00AM, Blaine Tech
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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	10/28/14	10/28/14 18:33	LD1	IC6	1	BXJ2658

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**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1424864-03	<b>Client Sample Name:</b> JPL-GW, SB-1-10/20/14, 10/20/2014 7:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
<b>Total Recoverable Chromium</b>	<b>0.66</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	ND	J	2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	10/20/14	10/20/14 22:58	BMW	KONE-1	1	BXJ1878
2	EPA-200.8	11/01/14	11/03/14 14:38	EAR	PE-EL2	1	BXK0002

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Reported: 11/05/2014 21:54  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1424864-04	<b>Client Sample Name:</b> JPL-GW, MW-20-5, 10/20/2014 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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: 11/05/2014 21:54  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1424864-04	<b>Client Sample Name:</b> JPL-GW, MW-20-5, 10/20/2014 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Styrene</b>	<b>0.22</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.068</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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
<b>Carbon disulfide</b>	<b>0.46</b>	<b>ug/L</b>	<b>1.0</b>	<b>0.38</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1424864-04	<b>Client Sample Name:</b> JPL-GW, MW-20-5, 10/20/2014 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	V11	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	V11	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)	98.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.5	%	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	10/23/14	10/23/14 21:39	MGC	MS-V5	1	BXJ2163

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**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1424864-04	<b>Client Sample Name:</b> JPL-GW, MW-20-5, 10/20/2014 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	10/23/14	10/23/14 21:39	MGC	MS-V5	1	BXJ2163

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**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1424864-04	<b>Client Sample Name:</b> JPL-GW, MW-20-5, 10/20/2014 8:30:00AM, 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	10/28/14	10/28/14 18:47	LD1	IC6	1	BXJ2658

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**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1424864-04	<b>Client Sample Name:</b> JPL-GW, MW-20-5, 10/20/2014 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
<b>Total Recoverable Chromium</b>	<b>0.90</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	10/20/14	10/20/14 22:58	BMW	KONE-1	1	BXJ1878
2	EPA-200.8	11/01/14	11/03/14 14:41	EAR	PE-EL2	1	BXK0002

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Reported: 11/05/2014 21:54  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1424864-05	<b>Client Sample Name:</b> JPL-GW, MW-20-4, 10/20/2014 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	V11	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:** 11/05/2014 21:54  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

## Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	1424864-05	Client Sample Name:	JPL-GW, MW-20-4, 10/20/2014 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	
<b>Carbon disulfide</b>	<b>0.50</b>	<b>ug/L</b>	<b>1.0</b>	<b>0.38</b>	<b>EPA-524.2</b>	ND	<b>J</b>	<b>1</b>	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1	

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1424864-05	<b>Client Sample Name:</b> JPL-GW, MW-20-4, 10/20/2014 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	V11	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	V11	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)	102	%	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	10/23/14	10/23/14 22:02	MGC	MS-V5	1	BXJ2163

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**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1424864-05	<b>Client Sample Name:</b> JPL-GW, MW-20-4, 10/20/2014 9:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/23/14	10/23/14 22:02	MGC	MS-V5	1	BXJ2163

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**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1424864-05	<b>Client Sample Name:</b> JPL-GW, MW-20-4, 10/20/2014 9:10:00AM, Blaine Tech
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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	10/28/14	10/28/14 19:00	LD1	IC6	1	BXJ2658

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**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1424864-05	<b>Client Sample Name:</b> JPL-GW, MW-20-4, 10/20/2014 9:10:00AM, Blaine Tech
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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		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	10/20/14	10/20/14 22:58	BMW	KONE-1	1	BXJ1878
2	EPA-200.8	11/03/14	11/03/14 16:45	EAR	PE-EL2	1	BXK0066

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Reported: 11/05/2014 21:54  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1424864-06	<b>Client Sample Name:</b> JPL-GW, MW-20-3, 10/20/2014 9:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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: 11/05/2014 21:54  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1424864-06		Client Sample Name: JPL-GW, MW-20-3, 10/20/2014 9:40:00AM, 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
<b>Ethylbenzene</b>	<b>0.14</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.098</b>	<b>EPA-524.2</b>	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
<b>Styrene</b>	<b>0.31</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.068</b>	<b>EPA-524.2</b>	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
<b>Tetrachloroethene</b>	<b>0.28</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.13</b>	<b>EPA-524.2</b>	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
<b>Trichloroethene</b>	<b>0.090</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	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
<b>Acrylonitrile</b>	<b>1.8</b>	<b>ug/L</b>	<b>5.0</b>	<b>1.2</b>	<b>EPA-524.2</b>	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
<b>Carbon disulfide</b>	<b>0.50</b>	<b>ug/L</b>	<b>1.0</b>	<b>0.38</b>	<b>EPA-524.2</b>	ND	J	1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1

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Powell, OH 43065

**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1424864-06	<b>Client Sample Name:</b> JPL-GW, MW-20-3, 10/20/2014 9:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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	V11	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)	91.4	%	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	10/23/14	10/23/14 22:25	MGC	MS-V5	1	BXJ2163

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Powell, OH 43065

**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1424864-06	<b>Client Sample Name:</b> JPL-GW, MW-20-3, 10/20/2014 9:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/23/14	10/23/14 22:25	MGC	MS-V5	1	BXJ2163

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Powell, OH 43065

**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1424864-06	<b>Client Sample Name:</b> JPL-GW, MW-20-3, 10/20/2014 9:40:00AM, Blaine Tech
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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	10/28/14	10/28/14 19:14	LD1	IC6	1	BXJ2658

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**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1424864-06	<b>Client Sample Name:</b> JPL-GW, MW-20-3, 10/20/2014 9:40:00AM, Blaine Tech
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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		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	10/20/14	10/20/14 22:58	BMW	KONE-1	1	BXJ1878
2	EPA-200.8	11/03/14	11/04/14 00:40	EAR	PE-EL2	1	BXK0066

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Reported: 11/05/2014 21:54  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1424864-07	<b>Client Sample Name:</b> JPL-GW, MW-20-2, 10/20/2014 10:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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
<b>Chloroform</b>	<b>0.26</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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: 11/05/2014 21:54  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1424864-07	<b>Client Sample Name:</b> JPL-GW, MW-20-2, 10/20/2014 10:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Trichloroethene</b>	<b>0.16</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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	V11	1

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Powell, OH 43065

**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1424864-07	<b>Client Sample Name:</b> JPL-GW, MW-20-2, 10/20/2014 10:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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	V11	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)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.4	%	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	10/23/14	10/23/14 22:47	MGC	MS-V5	1	BXJ2163

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1424864-07	<b>Client Sample Name:</b> JPL-GW, MW-20-2, 10/20/2014 10:10:00AM, 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	10/23/14	10/23/14 22:47	MGC	MS-V5	1	BXJ2163

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**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1424864-07	<b>Client Sample Name:</b> JPL-GW, MW-20-2, 10/20/2014 10:10:00AM, Blaine Tech
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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	10/28/14	10/29/14 01:30	LD1	IC6	1	BXJ2658

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Powell, OH 43065

**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1424864-07	<b>Client Sample Name:</b> JPL-GW, MW-20-2, 10/20/2014 10:10:00AM, 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
<b>Total Recoverable Chromium</b>	<b>1.0</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	10/21/14	10/21/14 07:44	TDC	KONE-1	1	BXJ1880
2	EPA-200.8	11/03/14	11/04/14 00:44	EAR	PE-EL2	1	BXK0066

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Reported: 11/05/2014 21:54  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1424864-08	<b>Client Sample Name:</b> JPL-GW, MW-19-5, 10/20/2014 10:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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
<b>Chloroform</b>	<b>0.16</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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: 11/05/2014 21:54  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1424864-08	<b>Client Sample Name:</b> JPL-GW, MW-19-5, 10/20/2014 10:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Tetrachloroethene</b>	<b>0.56</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.13</b>	<b>EPA-524.2</b>	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	V11	1

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1424864-08	<b>Client Sample Name:</b> JPL-GW, MW-19-5, 10/20/2014 10:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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	V11	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)	91.4	%	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	10/23/14	10/23/14 23:10	MGC	MS-V5	1	BXJ2163

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Powell, OH 43065

**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1424864-08	<b>Client Sample Name:</b> JPL-GW, MW-19-5, 10/20/2014 10:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/23/14	10/23/14 23:10	MGC	MS-V5	1	BXJ2163

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**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1424864-08	<b>Client Sample Name:</b> JPL-GW, MW-19-5, 10/20/2014 10:50:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	3.2	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	10/28/14	10/29/14 01:58	LD1	IC6	1	BXJ2658

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Powell, OH 43065

**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1424864-08	<b>Client Sample Name:</b> JPL-GW, MW-19-5, 10/20/2014 10:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
<b>Total Recoverable Chromium</b>	<b>0.78</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	ND	J	2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	10/21/14	10/21/14 07:44	TDC	KONE-1	1	BXJ1880
2	EPA-200.8	11/03/14	11/04/14 00:47	EAR	PE-EL2	1	BXK0066

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Reported: 11/05/2014 21:54  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1424864-09	<b>Client Sample Name:</b> JPL-GW, MW-19-4, 10/20/2014 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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
<b>Chloroform</b>	<b>0.21</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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: 11/05/2014 21:54  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1424864-09	<b>Client Sample Name:</b> JPL-GW, MW-19-4, 10/20/2014 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Tetrachloroethene</b>	<b>0.40</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.13</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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	V11	1

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1424864-09	<b>Client Sample Name:</b> JPL-GW, MW-19-4, 10/20/2014 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	V11	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	V11	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)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	89.9	%	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	10/23/14	10/23/14 23:32	MGC	MS-V5	1	BXJ2163

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Powell, OH 43065

**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1424864-09	<b>Client Sample Name:</b> JPL-GW, MW-19-4, 10/20/2014 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/23/14	10/23/14 23:32	MGC	MS-V5	1	BXJ2163

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**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1424864-09	<b>Client Sample Name:</b> JPL-GW, MW-19-4, 10/20/2014 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	3.1	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	10/28/14	10/29/14 02:25	LD1	IC6	1	BXJ2658

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**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1424864-09	<b>Client Sample Name:</b> JPL-GW, MW-19-4, 10/20/2014 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
<b>Total Recoverable Chromium</b>	<b>1.3</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	10/21/14	10/21/14 07:44	TDC	KONE-1	1	BXJ1880
2	EPA-200.8	11/03/14	11/04/14 00:50	EAR	PE-EL2	1	BXK0066

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Powell, OH 43065

Reported: 11/05/2014 21:54  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1424864-10	<b>Client Sample Name:</b> JPL-GW, MW-19-3, 10/20/2014 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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
<b>Chloroform</b>	<b>0.49</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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: 11/05/2014 21:54  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1424864-10	<b>Client Sample Name:</b> JPL-GW, MW-19-3, 10/20/2014 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Tetrachloroethene</b>	<b>0.51</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.13</b>	<b>EPA-524.2</b>	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	V11	1

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3761 Attucks Drive  
Powell, OH 43065

Reported: 11/05/2014 21:54  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1424864-10	<b>Client Sample Name:</b> JPL-GW, MW-19-3, 10/20/2014 12:00:00PM, 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	V11	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	V11	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)	101	%	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	10/23/14	10/23/14 23:55	MGC	MS-V5	1	BXJ2163

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Powell, OH 43065

**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1424864-10	<b>Client Sample Name:</b> JPL-GW, MW-19-3, 10/20/2014 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/23/14	10/23/14 23:55	MGC	MS-V5	1	BXJ2163

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**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1424864-10	<b>Client Sample Name:</b> JPL-GW, MW-19-3, 10/20/2014 12:00:00PM, Blaine Tech
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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	10/28/14	10/29/14 02:53	LD1	IC6	1	BXJ2658

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1424864-10	<b>Client Sample Name:</b> JPL-GW, MW-19-3, 10/20/2014 12:00:00PM, 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
<b>Total Recoverable Chromium</b>	<b>2.5</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	10/21/14	10/21/14 07:44	TDC	KONE-1	1	BXJ1880
2	EPA-200.8	11/03/14	11/04/14 00:54	EAR	PE-EL2	1	BXK0066

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3761 Attucks Drive  
Powell, OH 43065

Reported: 11/05/2014 21:54  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

**BCL Sample ID:** 1424864-11      **Client Sample Name:** JPL-GW, MW-19-2, 10/20/2014 1:00:00PM, 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
<b>Bromodichloromethane</b>	<b>0.28</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	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	V11	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
<b>Chloroform</b>	<b>0.77</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	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
<b>1,1-Dichloroethane</b>	<b>0.17</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.11</b>	<b>EPA-524.2</b>	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
<b>cis-1,2-Dichloroethene</b>	<b>0.16</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	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: 11/05/2014 21:54  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1424864-11	<b>Client Sample Name:</b> JPL-GW, MW-19-2, 10/20/2014 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Tetrachloroethene</b>	<b>0.78</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.13</b>	<b>EPA-524.2</b>	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
<b>Trichloroethene</b>	<b>0.57</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	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	V11	1

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1424864-11	<b>Client Sample Name:</b> JPL-GW, MW-19-2, 10/20/2014 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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	V11	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)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	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	10/23/14	10/24/14 00:18	MGC	MS-V5	1	BXJ2163

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Powell, OH 43065

**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1424864-11	<b>Client Sample Name:</b> JPL-GW, MW-19-2, 10/20/2014 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/23/14	10/24/14 00:18	MGC	MS-V5	1	BXJ2163

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Powell, OH 43065

**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1424864-11	<b>Client Sample Name:</b> JPL-GW, MW-19-2, 10/20/2014 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	5.5	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	10/28/14	10/28/14 20:51	LD1	IC6	1	BXJ2658

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Powell, OH 43065

**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1424864-11	<b>Client Sample Name:</b> JPL-GW, MW-19-2, 10/20/2014 1:00:00PM, 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
<b>Total Recoverable Chromium</b>	<b>2.0</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	10/21/14	10/21/14 07:44	TDC	KONE-1	1	BXJ1880
2	EPA-200.8	11/03/14	11/04/14 00:57	EAR	PE-EL2	1	BXK0066

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Reported: 11/05/2014 21:54  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1424864-12	<b>Client Sample Name:</b> JPL-GW, MW-19-1, 10/20/2014 1:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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
<b>Chloroform</b>	<b>0.28</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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: 11/05/2014 21:54  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1424864-12	<b>Client Sample Name:</b> JPL-GW, MW-19-1, 10/20/2014 1:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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	V11	1

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1424864-12	<b>Client Sample Name:</b> JPL-GW, MW-19-1, 10/20/2014 1:30:00PM, 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	V11	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	V11	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)	100	%	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	10/23/14	10/24/14 00:40	MGC	MS-V5	1	BXJ2163

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**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1424864-12	<b>Client Sample Name:</b> JPL-GW, MW-19-1, 10/20/2014 1:30:00PM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/23/14	10/24/14 00:40	MGC	MS-V5	1	BXJ2163

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**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1424864-12	<b>Client Sample Name:</b> JPL-GW, MW-19-1, 10/20/2014 1:30:00PM, Blaine Tech
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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	10/28/14	10/28/14 21:05	LD1	IC6	1	BXJ2657

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**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1424864-12	<b>Client Sample Name:</b> JPL-GW, MW-19-1, 10/20/2014 1:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
<b>Total Recoverable Chromium</b>	<b>1.0</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	ND	J	2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	10/21/14	10/21/14	08:26	TDC	KONE-1	1	BXJ1880
2	EPA-200.8	11/03/14	11/04/14	01:01	EAR	PE-EL2	1	BXK0066

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Reported: 11/05/2014 21:54  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
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
<b>QC Batch ID: BXJ2163</b>						
Benzene	BXJ2163-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXJ2163-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXJ2163-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXJ2163-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXJ2163-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXJ2163-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXJ2163-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXJ2163-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXJ2163-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXJ2163-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXJ2163-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXJ2163-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXJ2163-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXJ2163-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXJ2163-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXJ2163-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BXJ2163-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXJ2163-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXJ2163-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXJ2163-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXJ2163-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXJ2163-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXJ2163-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXJ2163-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXJ2163-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXJ2163-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXJ2163-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXJ2163-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXJ2163-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXJ2163-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXJ2163-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXJ2163-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXJ2163-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXJ2163-BLK1	ND	ug/L	0.50	0.14	

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Powell, OH 43065

Reported: 11/05/2014 21:54  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
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
<b>QC Batch ID: BXJ2163</b>						
trans-1,3-Dichloropropene	BXJ2163-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXJ2163-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXJ2163-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXJ2163-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXJ2163-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXJ2163-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXJ2163-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXJ2163-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXJ2163-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXJ2163-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXJ2163-BLK1	ND	ug/L	0.50	0.18	
1,1,1,2,2-Tetrachloroethane	BXJ2163-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethane	BXJ2163-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXJ2163-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXJ2163-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXJ2163-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BXJ2163-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXJ2163-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXJ2163-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXJ2163-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXJ2163-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXJ2163-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXJ2163-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXJ2163-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXJ2163-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXJ2163-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXJ2163-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXJ2163-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXJ2163-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXJ2163-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXJ2163-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXJ2163-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXJ2163-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXJ2163-BLK1	ND	ug/L	4.0	0.97	

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Reported: 11/05/2014 21:54  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
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
<b>QC Batch ID: BXJ2163</b>						
Ethyl t-butyl ether	BXJ2163-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXJ2163-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXJ2163-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXJ2163-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXJ2163-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXJ2163-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXJ2163-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXJ2163-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXJ2163-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXJ2163-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXJ2163-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXJ2163-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXJ2163-BLK1	ND	ug/L	0.50	0.082	
<b>1,2-Dichloroethane-d4 (Surrogate)</b>	<b>BXJ2163-BLK1</b>	<b>105</b>	<b>%</b>	<b>75 - 125 (LCL - UCL)</b>		
<b>Toluene-d8 (Surrogate)</b>	<b>BXJ2163-BLK1</b>	<b>99.7</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		
<b>4-Bromofluorobenzene (Surrogate)</b>	<b>BXJ2163-BLK1</b>	<b>90.1</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		

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**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: BXJ2163</b>										
Benzene	BXJ2163-BS1	LCS	26.820	25.000	ug/L	107		70 - 130		
Bromodichloromethane	BXJ2163-BS1	LCS	27.800	25.000	ug/L	111		70 - 130		
Chlorobenzene	BXJ2163-BS1	LCS	27.490	25.000	ug/L	110		70 - 130		
Chloroethane	BXJ2163-BS1	LCS	29.600	25.000	ug/L	118		70 - 130		
1,4-Dichlorobenzene	BXJ2163-BS1	LCS	29.720	25.000	ug/L	119		70 - 130		
1,1-Dichloroethane	BXJ2163-BS1	LCS	25.750	25.000	ug/L	103		70 - 130		
1,1-Dichloroethene	BXJ2163-BS1	LCS	26.290	25.000	ug/L	105		70 - 130		
Toluene	BXJ2163-BS1	LCS	27.620	25.000	ug/L	110		70 - 130		
Trichloroethene	BXJ2163-BS1	LCS	29.610	25.000	ug/L	118		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXJ2163-BS1	LCS	10.260	10.000	ug/L	103		75 - 125		
Toluene-d8 (Surrogate)	BXJ2163-BS1	LCS	10.260	10.000	ug/L	103		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXJ2163-BS1	LCS	10.480	10.000	ug/L	105		80 - 120		

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Reported: 11/05/2014 21:54  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
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	Control Limits			Lab
							RPD	Percent Recovery	Percent Recovery	
<b>QC Batch ID: BXJ2163</b>		Used client sample: N								
Benzene	MS	1424906-05	ND	24.650	25.000	ug/L		98.6		70 - 130
	MSD	1424906-05	ND	25.820	25.000	ug/L	4.6	103	20	70 - 130
Bromodichloromethane	MS	1424906-05	ND	26.650	25.000	ug/L		107		70 - 130
	MSD	1424906-05	ND	26.790	25.000	ug/L	0.5	107	20	70 - 130
Chlorobenzene	MS	1424906-05	ND	25.780	25.000	ug/L		103		70 - 130
	MSD	1424906-05	ND	26.230	25.000	ug/L	1.7	105	20	70 - 130
Chloroethane	MS	1424906-05	ND	27.390	25.000	ug/L		110		70 - 130
	MSD	1424906-05	ND	28.540	25.000	ug/L	4.1	114	20	70 - 130
1,4-Dichlorobenzene	MS	1424906-05	ND	27.140	25.000	ug/L		109		70 - 130
	MSD	1424906-05	ND	28.700	25.000	ug/L	5.6	115	20	70 - 130
1,1-Dichloroethane	MS	1424906-05	ND	24.330	25.000	ug/L		97.3		70 - 130
	MSD	1424906-05	ND	24.860	25.000	ug/L	2.2	99.4	20	70 - 130
1,1-Dichloroethene	MS	1424906-05	ND	24.090	25.000	ug/L		96.4		70 - 130
	MSD	1424906-05	ND	25.060	25.000	ug/L	3.9	100	20	70 - 130
Toluene	MS	1424906-05	ND	27.310	25.000	ug/L		109		70 - 130
	MSD	1424906-05	ND	26.080	25.000	ug/L	4.6	104	20	70 - 130
Trichloroethene	MS	1424906-05	ND	25.940	25.000	ug/L		104		70 - 130
	MSD	1424906-05	ND	25.850	25.000	ug/L	0.3	103	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1424906-05	ND	9.4900	10.000	ug/L		94.9		75 - 125
	MSD	1424906-05	ND	10.020	10.000	ug/L	5.4	100		75 - 125
Toluene-d8 (Surrogate)	MS	1424906-05	ND	10.550	10.000	ug/L		106		80 - 120
	MSD	1424906-05	ND	9.9200	10.000	ug/L	6.2	99.2		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1424906-05	ND	9.9900	10.000	ug/L		99.9		80 - 120
	MSD	1424906-05	ND	10.150	10.000	ug/L	1.6	102		80 - 120

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/05/2014 21:54  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
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
<b>QC Batch ID: BXJ2163</b>						
Chloroacetonitrile	BXJ2163-BLK1	0	ug/L			
1-Chlorobutane	BXJ2163-BLK1	0	ug/L			
1,1-Dichloropropanone	BXJ2163-BLK1	0	ug/L			
Methyl acrylate	BXJ2163-BLK1	0	ug/L			
Nitrobenzene	BXJ2163-BLK1	0	ug/L			
2-Nitropropane	BXJ2163-BLK1	0	ug/L			

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**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
<b>QC Batch ID: BXJ2657</b>						
Perchlorate	BXJ2657-BLK1	ND	ug/L	4.0	0.45	
<b>QC Batch ID: BXJ2658</b>						
Perchlorate	BXJ2658-BLK1	ND	ug/L	4.0	0.45	

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/05/2014 21:54  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Water Analysis (General Chemistry)

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: BXJ2657</b>										
Perchlorate	BXJ2657-BS1	LCS	9.6780	10.000	ug/L	96.8		85	115	
<b>QC Batch ID: BXJ2658</b>										
Perchlorate	BXJ2658-BS1	LCS	10.523	10.000	ug/L	105		85	115	

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
<b>QC Batch ID: BXJ2657</b>		Used client sample: N								
Perchlorate	DUP	1424683-01	1.0781	1.1235		ug/L	4.1		15	J
	MS	1424683-01	1.0781	10.611	10.101	ug/L		94.4		80 - 120
	MSD	1424683-01	1.0781	10.560	10.101	ug/L	0.5	93.9	15	80 - 120
<b>QC Batch ID: BXJ2658</b>		Used client sample: Y - Description: EB-1-10/20/14, 10/20/2014 07:40								
Perchlorate	DUP	1424864-02	ND	ND		ug/L			15	
	MS	1424864-02	ND	9.9794	10.101	ug/L		98.8		80 - 120
	MSD	1424864-02	ND	9.8305	10.101	ug/L	1.5	97.3	15	80 - 120

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: BXJ1878</b>						
Hexavalent Chromium	BXJ1878-BLK1	ND	mg/L	0.0020	0.00070	
<b>QC Batch ID: BXJ1880</b>						
Hexavalent Chromium	BXJ1880-BLK1	ND	mg/L	0.0020	0.00070	
<b>QC Batch ID: BXK0002</b>						
Total Recoverable Chromium	BXK0002-BLK1	ND	ug/L	3.0	0.50	
<b>QC Batch ID: BXK0066</b>						
Total Recoverable Chromium	BXK0066-BLK1	ND	ug/L	3.0	0.50	

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/05/2014 21:54  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Metals Analysis

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: BXJ1878</b>										
Hexavalent Chromium	BXJ1878-BS1	LCS	0.050489	0.050000	mg/L	101		85 - 115		
<b>QC Batch ID: BXJ1880</b>										
Hexavalent Chromium	BXJ1880-BS1	LCS	0.050608	0.050000	mg/L	101		85 - 115		
<b>QC Batch ID: BXK0002</b>										
Total Recoverable Chromium	BXK0002-BS1	LCS	41.219	40.000	ug/L	103		85 - 115		
<b>QC Batch ID: BXK0066</b>										
Total Recoverable Chromium	BXK0066-BS1	LCS	42.115	40.000	ug/L	105		85 - 115		

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
<b>QC Batch ID: BXJ1878</b>		Used client sample: Y - Description: EB-1-10/20/14, 10/20/2014 07:40								
Hexavalent Chromium	DUP	1424864-02	ND	ND		mg/L			10	
	MS	1424864-02	ND	0.053115	0.052632	mg/L		101		85 - 115
	MSD	1424864-02	ND	0.050989	0.052632	mg/L	4.1	96.9	10	85 - 115
<b>QC Batch ID: BXJ1880</b>		Used client sample: Y - Description: MW-20-2, 10/20/2014 10:10								
Hexavalent Chromium	DUP	1424864-07	ND	ND		mg/L			10	
	MS	1424864-07	ND	0.053923	0.052632	mg/L		102		85 - 115
	MSD	1424864-07	ND	0.052406	0.052632	mg/L	2.9	99.6	10	85 - 115
<b>QC Batch ID: BXK0002</b>		Used client sample: N								
Total Recoverable Chromium	DUP	1425753-01	ND	ND		ug/L			20	
	MS	1425753-01	ND	37.480	40.000	ug/L		93.7		70 - 130
	MSD	1425753-01	ND	37.567	40.000	ug/L	0.2	93.9	20	70 - 130
<b>QC Batch ID: BXK0066</b>		Used client sample: Y - Description: MW-20-4, 10/20/2014 09:10								
Total Recoverable Chromium	DUP	1424864-05	ND	ND		ug/L			20	
	MS	1424864-05	ND	39.165	40.000	ug/L		97.9		70 - 130
	MSD	1424864-05	ND	37.432	40.000	ug/L	4.5	93.6	20	70 - 130

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/05/2014 21:54  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**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
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.



Date of Report: 01/07/2015

David Conner

Tidewater Inc.

3761 Attucks Drive  
Powell, OH 43065

Client Project: 4th Quarter  
BCL Project: JPL- GW Monitoring Wells  
BCL Work Order: 1425001  
Invoice ID: B189519

Enclosed are the results of analyses for samples received by the laboratory on 10/21/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton  
Client Service Rep

Authorized Signature

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

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Chain of Custody Form

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**Report To:** Tidewater, Inc.  
**Client:** Tidewater, Inc. (P.O. #1213-000-02)  
**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@twdh2o.net  
**Submission #:** 14-25901

**Project Description:** JPL-GW Monitoring  
**Project Code:** 4th Quarter  
**Sampler (s):** Blaine Tech

**Analysis Requested**

Sample #	Sample Description	Date	Time	Matrix*
-1	TB-2-10/21/14	10-21-14	0645	AQ
-2	EB-2-10/21/14		0700	
-3	MW-3-5		0730	
-4	MW-3-4		0810	
-5	MW-3-3		0840	
-6	MW-3-2		0920	
-7	MW-3-1		0950	
-8	MW-14-5		1100	
-9	MW-14-4		1140	
-10	MW-14-3		1310	
-11	MW-14-2		1345	

**Analysis Requested**

Analysis	Requested
Total Cr (200.8)	X
Perchlorate (EPA 314.0)	X
Chloride, Nitrate, Sulfate (300)	X
Orthophosphate (365.1)	X
Nitrite (353.2)	X
Hexavalent Cr (7196)	X
VOCs EPA 524.2	X

**Notes:** MS/MSD, Level IV, MS/MSD

**Billing:**  
**Client:** Tidewater, Inc. (P.O. #1213-000-02)  
**Attn:** As directed by Ben Headington  
**Address:** 6625 Seimick Drive, Suite A  
**City:** Elkridge **State:** MD **Zip:** 21035  
 Are there any tests with holding times?  Yes  No  
 \*Standard Turnaround = 10

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

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

**Lab TAT Approval:** \_\_\_\_\_ \*Additional Charges May Apply

**Cost Center:**  
 1. Relinquished By: [Signature] Date: 10-21-14 Time: 1500  
 2. Relinquished By: Nicole Date: 10-21-14 Time: 1535  
 3. Relinquished By: [Signature] Date: 10-21-14 Time: 1820

**Global ID:** 10-21-14 1500  
 10-21-14 1535  
 10-21-14 1820

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

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

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Chain of Custody Form

Page 2 of 2

**Report To:** Tidewater, Inc.  
**Client:** Tidewater, Inc. (P.O. #1213-000-02)  
**Attn:** David Corner  
**Street Address:** 3761 Attucks Drive  
**City:** Powell **State:** OH **Zip:** 43065  
**Phone:** (614) 792-2897 **Fax:** (614) 792-2897  
**Email Address:** david.corner@tideh2o.net  
**Submission #:** 14-25001

**Project Description:** JPL-GW Monitoring  
**Project Code:** 4th Quarter  
**Sampler (s):** Blaine Tech

**Analysis Requested:**  
 Total Cr (200.8)   
 VOCs EPA 524.2   
 Perchlorate (EPA 314.0)   
 Chloride, Nitrate, Sulfate (300)   
 Orthophosphate (365.1)   
 Nitrite (353.2)   
 Hexavalent Cr (7196)

**Notes:**  
 SHORT HOLDING TIME  
 NO Cl<sub>2</sub> BOD MBAS COT  
 CHK BY DISTRIBUTION  
 MWL  
 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:** \_\_\_\_\_

**Cost Center:**  
 1. Relinquished By: [Signature] Date: 10-21-14 Time: 1500  
 2. Relinquished By: [Signature] Date: 10-21-14 Time: 1535  
 3. Relinquished By: [Signature] Date: 10-21-14 Time: 1800

**Global ID:**  
 1. Received By: [Signature] Date: 10/21/14 Time: 1500  
 2. Received By: [Signature] Date: 10/21/14 Time: 1535  
 3. Received By: [Signature] Date: 10/21/14 Time: 1800

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

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

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 Of 2

Submission #: 14-25001

**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  Containers  None  Comments: \_\_\_\_\_  
 Intact? Yes  No  Intact? Yes  No

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

**COC Received**  
 YES  NO

Emissivity: 0.98 Container: PE Thermometer ID: 207 Date/Time 10/21/14 1820  
 Temperature: (A) 1.9 °C (C) 1.5 °C Analyst Init MWL

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL		D	D	D	J	D	D	D	D	D
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS		E	E	E	K	E	E	E	E	E
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A									
40ml VOA VIAL		ABC	ABC	ABC	A→I	ABC	ABC	ABC	ABC	ABC
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										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber 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: MWL Date/Time: 10/21/14 @ 1845 [S:\WPDoc\WordPerfect\LAB\_DOCS\FORMS\SAMREC]  
 A = Actual / C = Corrected



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 4 of 4

Submission #: 14-25001

SHIPPING INFORMATION
Federal Express [ ] UPS [ ] Hand Delivery [ ]
BC Lab Field Service [x] Other [ ] (Specify) \_\_\_\_\_

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

FREE LIQUID
YES [ ] NO [ ]

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

Custody Seals Ice Chest [ ] Containers [ ] None [x] Comments:
Intact? Yes [ ] No [ ] Intact? Yes [ ] No [ ]

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

COC Received
[X] YES [ ] NO

Emissivity: 0.98 Container: PE Thermometer ID: 207

Date/Time 10/21/14 1820

Temperature: (A) 1.9 °C (C) 1.5 °C

Analyst Init MWI

Table with columns: SAMPLE CONTAINERS, SAMPLE NUMBERS (1-10). Rows include various sample types like QT GENERAL MINERAL/GENERAL, PT PE UNPRESERVED, etc.

Comments:

Sample Numbering Completed By: MWI

Date/Time: 10/21/14 @ 1845

(S:\WPDoc\WordPerfect\LAB\_DOCS\FORMS\SAMREC)

A = Actual / C = Corrected



Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

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

<b>1425001-01</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> TB-2-10/21/14 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/21/2014 18:20 <b>Sampling Date:</b> 10/21/2014 06:45 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Trip Blank Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-2-10/21/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1425001-02</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> EB-2-10/21/14 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/21/2014 18:20 <b>Sampling Date:</b> 10/21/2014 07:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-2-10/21/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1425001-03</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-3-5 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/21/2014 18:20 <b>Sampling Date:</b> 10/21/2014 07:30 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-3-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>1425001-04</b>	<b>COC Number:</b> ---	<b>Receive Date:</b> 10/21/2014 18:20
	<b>Project Number:</b> JPL-GW	<b>Sampling Date:</b> 10/21/2014 08:10
	<b>Sampling Location:</b> ---	<b>Sample Depth:</b> ---
	<b>Sampling Point:</b> MW-3-4	<b>Lab Matrix:</b> Water
	<b>Sampled By:</b> Blaine Tech of BAT	<b>Sample Type:</b> Aqueous
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-3-4
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

<b>1425001-05</b>	<b>COC Number:</b> ---	<b>Receive Date:</b> 10/21/2014 18:20
	<b>Project Number:</b> JPL-GW	<b>Sampling Date:</b> 10/21/2014 08:40
	<b>Sampling Location:</b> ---	<b>Sample Depth:</b> ---
	<b>Sampling Point:</b> MW-3-3	<b>Lab Matrix:</b> Water
	<b>Sampled By:</b> Blaine Tech of BAT	<b>Sample Type:</b> Aqueous
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-3-3
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

<b>1425001-06</b>	<b>COC Number:</b> ---	<b>Receive Date:</b> 10/21/2014 18:20
	<b>Project Number:</b> JPL-GW	<b>Sampling Date:</b> 10/21/2014 09:20
	<b>Sampling Location:</b> ---	<b>Sample Depth:</b> ---
	<b>Sampling Point:</b> MW-3-2	<b>Lab Matrix:</b> Water
	<b>Sampled By:</b> Blaine Tech of BAT	<b>Sample Type:</b> 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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Powell, OH 43065

**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>1425001-07</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-3-1 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/21/2014 18:20 <b>Sampling Date:</b> 10/21/2014 09:50 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-3-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1425001-08</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-14-5 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/21/2014 18:20 <b>Sampling Date:</b> 10/21/2014 11:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-14-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1425001-09</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-14-4 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/21/2014 18:20 <b>Sampling Date:</b> 10/21/2014 11:40 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Aqueous 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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Powell, OH 43065

**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>1425001-10</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-14-3 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/21/2014 18:20 <b>Sampling Date:</b> 10/21/2014 13:10 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-14-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1425001-11</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-14-2 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/21/2014 18:20 <b>Sampling Date:</b> 10/21/2014 13:45 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-14-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1425001-12</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> DUP-1-4Q14 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/21/2014 18:20 <b>Sampling Date:</b> 10/21/2014 11:50 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): DUP-1-4Q14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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3761 Attucks Drive  
Powell, OH 43065

Reported: 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425001-01	<b>Client Sample Name:</b> JPL-GW, TB-2-10/21/14, 10/21/2014 6:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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: 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425001-01	<b>Client Sample Name:</b> JPL-GW, TB-2-10/21/14, 10/21/2014 6:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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	V11	1

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425001-01	<b>Client Sample Name:</b> JPL-GW, TB-2-10/21/14, 10/21/2014 6:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	109	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	82.7	%	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	10/22/14	10/22/14 21:27	MGC	MS-V5	1	BXJ2010

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Powell, OH 43065

**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425001-01	<b>Client Sample Name:</b> JPL-GW, TB-2-10/21/14, 10/21/2014 6:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/22/14	10/22/14 21:27	MGC	MS-V5	1	BXJ2010

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Powell, OH 43065

Reported: 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425001-02	<b>Client Sample Name:</b> JPL-GW, EB-2-10/21/14, 10/21/2014 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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: 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425001-02	<b>Client Sample Name:</b> JPL-GW, EB-2-10/21/14, 10/21/2014 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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	V11	1

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425001-02	<b>Client Sample Name:</b> JPL-GW, EB-2-10/21/14, 10/21/2014 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	85.3	%	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	10/22/14	10/22/14 21:50	MGC	MS-V5	1	BXJ2010

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425001-02	<b>Client Sample Name:</b> JPL-GW, EB-2-10/21/14, 10/21/2014 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/22/14	10/22/14 21:50	MGC	MS-V5	1	BXJ2010

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Powell, OH 43065

**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425001-02	<b>Client Sample Name:</b> JPL-GW, EB-2-10/21/14, 10/21/2014 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	0.68		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	10/30/14	10/30/14 17:12	LD1	IC6	1	BXJ2850

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Powell, OH 43065

**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425001-02	<b>Client Sample Name:</b> JPL-GW, EB-2-10/21/14, 10/21/2014 7:00:00AM, Blaine Tech
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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		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	10/22/14	10/22/14	01:33	BMW	KONE-1	1	BXJ2076
2	EPA-200.8	11/04/14	12/08/14	17:48	SRM	PE-EL2	1	BXL0696

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Powell, OH 43065

Reported: 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425001-03	<b>Client Sample Name:</b> JPL-GW, MW-3-5, 10/21/2014 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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
<b>1,1-Dichloroethane</b>	<b>0.15</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.11</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
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: 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425001-03	<b>Client Sample Name:</b> JPL-GW, MW-3-5, 10/21/2014 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Tetrachloroethene</b>	<b>0.18</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.13</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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	V11	1

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

Reported: 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425001-03	<b>Client Sample Name:</b> JPL-GW, MW-3-5, 10/21/2014 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	83.5	%	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	10/22/14	10/22/14 22:12	MGC	MS-V5	1	BXJ2010

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Powell, OH 43065

**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425001-03	<b>Client Sample Name:</b> JPL-GW, MW-3-5, 10/21/2014 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/22/14	10/22/14 22:12	MGC	MS-V5	1	BXJ2010

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425001-03	<b>Client Sample Name:</b> JPL-GW, MW-3-5, 10/21/2014 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	0.68		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	10/30/14	10/30/14 17:26	LD1	IC6	1	BXJ2850

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Powell, OH 43065

**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425001-03	<b>Client Sample Name:</b> JPL-GW, MW-3-5, 10/21/2014 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
<b>Total Recoverable Chromium</b>	<b>30</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	10/22/14	10/22/14	01:33	BMW	KONE-1	1	BXJ2076
2	EPA-200.8	11/04/14	12/08/14	19:44	SRM	PE-EL2	1	BXL0696

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Powell, OH 43065

Reported: 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

## Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	1425001-04			Client Sample Name:	JPL-GW, MW-3-4, 10/21/2014 8:10:00AM, 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	V11	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	
<b>1,1-Dichloroethane</b>	<b>0.17</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.11</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1	
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: 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1425001-04		Client Sample Name: JPL-GW, MW-3-4, 10/21/2014 8:10:00AM, 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
<b>Tetrachloroethene</b>	<b>0.15</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.13</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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	V11	1

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

Reported: 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425001-04	<b>Client Sample Name:</b> JPL-GW, MW-3-4, 10/21/2014 8:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	82.8	%	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	10/22/14	10/22/14 22:35	MGC	MS-V5	1	BXJ2010

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Powell, OH 43065

**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425001-04	<b>Client Sample Name:</b> JPL-GW, MW-3-4, 10/21/2014 8:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/22/14	10/22/14 22:35	MGC	MS-V5	1	BXJ2010

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Powell, OH 43065

**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425001-04	<b>Client Sample Name:</b> JPL-GW, MW-3-4, 10/21/2014 8:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.1	ug/L	4.0	0.45	EPA-314.0	0.68	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	10/30/14	10/30/14 17:40	LD1	IC6	1	BXJ2850

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**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425001-04	<b>Client Sample Name:</b> JPL-GW, MW-3-4, 10/21/2014 8:10:00AM, 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
<b>Total Recoverable Chromium</b>	<b>13</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	10/22/14	10/22/14 01:33	BMW	KONE-1	1	BXJ2076
2	EPA-200.8	11/04/14	12/08/14 19:47	SRM	PE-EL2	1	BXL0696

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Reported: 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

**BCL Sample ID:** 1425001-05      **Client Sample Name:** JPL-GW, MW-3-3, 10/21/2014 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	V11	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
<b>1,1-Dichloroethane</b>	<b>0.20</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.11</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
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: 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425001-05	<b>Client Sample Name:</b> JPL-GW, MW-3-3, 10/21/2014 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Tetrachloroethene</b>	<b>0.24</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.13</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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: 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425001-05	<b>Client Sample Name:</b> JPL-GW, MW-3-3, 10/21/2014 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	V11	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)	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	10/22/14	10/22/14 10:08	MGC	MS-V5	1	BXJ2010

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425001-05	<b>Client Sample Name:</b> JPL-GW, MW-3-3, 10/21/2014 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	10/22/14	10/22/14 10:08	MGC	MS-V5	1	BXJ2010

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Tidewater Inc.  
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**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425001-05	<b>Client Sample Name:</b> JPL-GW, MW-3-3, 10/21/2014 8:40:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.0	ug/L	4.0	0.45	EPA-314.0	0.68	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	10/30/14	10/30/14 17:54	LD1	IC6	1	BXJ2850

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Tidewater Inc.  
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Powell, OH 43065

**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425001-05	<b>Client Sample Name:</b> JPL-GW, MW-3-3, 10/21/2014 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
<b>Total Recoverable Chromium</b>	<b>4.4</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	10/22/14	10/22/14 01:33	BMW	KONE-1	1	BXJ2076
2	EPA-200.8	11/04/14	12/08/14 19:50	SRM	PE-EL2	1	BXL0696

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Reported: 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425001-06	<b>Client Sample Name:</b> JPL-GW, MW-3-2, 10/21/2014 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
<b>Bromodichloromethane</b>	<b>0.52</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	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	V11	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
<b>Chloroform</b>	<b>1.7</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	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:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425001-06	<b>Client Sample Name:</b> JPL-GW, MW-3-2, 10/21/2014 9:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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	V11	1

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

Reported: 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425001-06	<b>Client Sample Name:</b> JPL-GW, MW-3-2, 10/21/2014 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	V11	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)	110	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	82.8	%	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	10/22/14	10/22/14 22:57	MGC	MS-V5	1	BXJ2010

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Powell, OH 43065

**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425001-06	<b>Client Sample Name:</b> JPL-GW, MW-3-2, 10/21/2014 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	10/22/14	10/22/14 22:57	MGC	MS-V5	1	BXJ2010

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**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425001-06	<b>Client Sample Name:</b> JPL-GW, MW-3-2, 10/21/2014 9:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	32	ug/L	8.0	0.90	EPA-314.0	1.4	A01	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	10/30/14	10/31/14 06:24	LD1	IC6	2	BXJ2850

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Powell, OH 43065

**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425001-06	<b>Client Sample Name:</b> JPL-GW, MW-3-2, 10/21/2014 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
<b>Total Recoverable Chromium</b>	<b>0.73</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	10/22/14	10/22/14 01:33	BMW	KONE-1	1	BXJ2076
2	EPA-200.8	11/04/14	12/08/14 19:54	SRM	PE-EL2	1	BXL0696

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Reported: 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

**BCL Sample ID:** 1425001-07      **Client Sample Name:** JPL-GW, MW-3-1, 10/21/2014 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	V11	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: 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425001-07	<b>Client Sample Name:</b> JPL-GW, MW-3-1, 10/21/2014 9:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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: 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425001-07	<b>Client Sample Name:</b> JPL-GW, MW-3-1, 10/21/2014 9:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	102	%	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	10/23/14	10/23/14 12:12	MGC	MS-V5	1	BXJ2011

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425001-07	<b>Client Sample Name:</b> JPL-GW, MW-3-1, 10/21/2014 9:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/23/14	10/23/14 12:12	MGC	MS-V5	1	BXJ2011

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425001-07	<b>Client Sample Name:</b> JPL-GW, MW-3-1, 10/21/2014 9:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	0.68		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	10/30/14	10/30/14 19:30	LD1	IC6	1	BXJ2850

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Powell, OH 43065

**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425001-07	<b>Client Sample Name:</b> JPL-GW, MW-3-1, 10/21/2014 9:50:00AM, Blaine Tech
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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		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	10/22/14	10/22/14	01:36	BMW	KONE-1	1	BXJ2076
2	EPA-200.8	11/04/14	12/08/14	19:57	SRM	PE-EL2	1	BXL0696

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Powell, OH 43065

Reported: 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425001-08	<b>Client Sample Name:</b> JPL-GW, MW-14-5, 10/21/2014 11:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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
<b>Chloroform</b>	<b>0.34</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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: 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425001-08	<b>Client Sample Name:</b> JPL-GW, MW-14-5, 10/21/2014 11:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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: 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425001-08	<b>Client Sample Name:</b> JPL-GW, MW-14-5, 10/21/2014 11:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	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	10/23/14	10/23/14 12:35	MGC	MS-V5	1	BXJ2011

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425001-08	<b>Client Sample Name:</b> JPL-GW, MW-14-5, 10/21/2014 11:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/23/14	10/23/14 12:35	MGC	MS-V5	1	BXJ2011

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425001-08	<b>Client Sample Name:</b> JPL-GW, MW-14-5, 10/21/2014 11:00:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	0.68		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	10/30/14	10/30/14 19:44	LD1	IC6	1	BXJ2850

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**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425001-08	<b>Client Sample Name:</b> JPL-GW, MW-14-5, 10/21/2014 11:00:00AM, Blaine Tech
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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		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	10/22/14	10/22/14 08:16	TDC	KONE-1	1	BXJ2077
2	EPA-200.8	11/04/14	12/08/14 20:01	SRM	PE-EL2	1	BXL0696

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Powell, OH 43065

Reported: 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425001-09	<b>Client Sample Name:</b> JPL-GW, MW-14-4, 10/21/2014 11:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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
<b>Chloroform</b>	<b>0.25</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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
<b>1,2-Dichlorobenzene</b>	<b>0.11</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.072</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
<b>1,4-Dichlorobenzene</b>	<b>0.080</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.062</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
<b>1,1-Dichloroethane</b>	<b>0.13</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.11</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
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
<b>cis-1,2-Dichloroethene</b>	<b>0.12</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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: 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425001-09	<b>Client Sample Name:</b> JPL-GW, MW-14-4, 10/21/2014 11:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Tetrachloroethene</b>	<b>0.26</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.13</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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
<b>Trichloroethene</b>	<b>0.29</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425001-09	<b>Client Sample Name:</b> JPL-GW, MW-14-4, 10/21/2014 11:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	100	%	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	10/23/14	10/23/14 12:58	MGC	MS-V5	1	BXJ2011

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425001-09	<b>Client Sample Name:</b> JPL-GW, MW-14-4, 10/21/2014 11:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/23/14	10/23/14 12:58	MGC	MS-V5	1	BXJ2011

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425001-09	<b>Client Sample Name:</b> JPL-GW, MW-14-4, 10/21/2014 11:40:00AM, 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	0.68		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	10/30/14	10/31/14 07:19	LD1	IC6	1	BXJ2850

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Powell, OH 43065

**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425001-09	<b>Client Sample Name:</b> JPL-GW, MW-14-4, 10/21/2014 11:40:00AM, 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	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	10/22/14	10/22/14 08:16	TDC	KONE-1	1	BXJ2077
2	EPA-200.8	11/04/14	12/08/14 20:04	SRM	PE-EL2	1	BXL0696

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Powell, OH 43065

Reported: 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425001-10	<b>Client Sample Name:</b> JPL-GW, MW-14-3, 10/21/2014 1:10:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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
<b>Chloroform</b>	<b>0.58</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	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
<b>1,1-Dichloroethane</b>	<b>0.34</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.11</b>	<b>EPA-524.2</b>	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
<b>cis-1,2-Dichloroethene</b>	<b>0.14</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	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: 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425001-10	<b>Client Sample Name:</b> JPL-GW, MW-14-3, 10/21/2014 1:10:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Tetrachloroethene</b>	<b>0.65</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.13</b>	<b>EPA-524.2</b>	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
<b>Trichloroethene</b>	<b>1.8</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	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: 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425001-10	<b>Client Sample Name:</b> JPL-GW, MW-14-3, 10/21/2014 1:10:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/23/14	10/23/14 13:20	MGC	MS-V5	1	BXJ2011

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Powell, OH 43065

**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425001-10	<b>Client Sample Name:</b> JPL-GW, MW-14-3, 10/21/2014 1:10:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/23/14	10/23/14 13:20	MGC	MS-V5	1	BXJ2011

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Powell, OH 43065

**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425001-10	<b>Client Sample Name:</b> JPL-GW, MW-14-3, 10/21/2014 1:10:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	5.3	ug/L	4.0	0.45	EPA-314.0	0.68		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-314.0	10/30/14	10/30/14 20:12	LD1	IC6	1	BXJ2850

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**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425001-10	<b>Client Sample Name:</b> JPL-GW, MW-14-3, 10/21/2014 1:10:00PM, Blaine Tech
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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		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	10/22/14	10/22/14 08:16	TDC	KONE-1	1	BXJ2077
2	EPA-200.8	11/04/14	12/08/14 20:08	SRM	PE-EL2	1	BXL0696

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Reported: 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

**BCL Sample ID:** 1425001-11      **Client Sample Name:** JPL-GW, MW-14-2, 10/21/2014 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	V11	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
<b>Chloroform</b>	<b>0.52</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	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
<b>1,1-Dichloroethane</b>	<b>0.15</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.11</b>	<b>EPA-524.2</b>	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
<b>cis-1,2-Dichloroethene</b>	<b>0.17</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	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: 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1425001-11 Client Sample Name: JPL-GW, MW-14-2, 10/21/2014 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	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
<b>Tetrachloroethene</b>	<b>0.54</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.13</b>	<b>EPA-524.2</b>	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
<b>Trichloroethene</b>	<b>3.8</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	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:** 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425001-11	<b>Client Sample Name:</b> JPL-GW, MW-14-2, 10/21/2014 1:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	102	%	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	10/23/14	10/23/14 09:34	MGC	MS-V5	1	BXJ2011

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Powell, OH 43065

**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425001-11	<b>Client Sample Name:</b> JPL-GW, MW-14-2, 10/21/2014 1:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/23/14	10/23/14 09:34	MGC	MS-V5	1	BXJ2011

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425001-11	<b>Client Sample Name:</b> JPL-GW, MW-14-2, 10/21/2014 1:45:00PM, Blaine Tech
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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	10/30/14	10/31/14 08:20	LD1	IC6	1	BXJ2852

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**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425001-11	<b>Client Sample Name:</b> JPL-GW, MW-14-2, 10/21/2014 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
<b>Total Recoverable Chromium</b>	<b>0.66</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	10/22/14	10/22/14 08:16	TDC	KONE-1	1	BXJ2077
2	EPA-200.8	11/04/14	12/08/14 20:11	SRM	PE-EL2	1	BXL0696

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Reported: 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425001-12	<b>Client Sample Name:</b> JPL-GW, DUP-1-4Q14, 10/21/2014 11:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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
<b>Chloroform</b>	<b>0.19</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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
<b>1,2-Dichlorobenzene</b>	<b>0.090</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.072</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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: 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425001-12	<b>Client Sample Name:</b> JPL-GW, DUP-1-4Q14, 10/21/2014 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
<b>Tetrachloroethene</b>	<b>0.20</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.13</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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
<b>Trichloroethene</b>	<b>0.22</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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:** 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425001-12	<b>Client Sample Name:</b> JPL-GW, DUP-1-4Q14, 10/21/2014 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	V11	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)	101	%	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	10/23/14	10/23/14 13:43	MGC	MS-V5	1	BXJ2011

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Powell, OH 43065

**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425001-12	<b>Client Sample Name:</b> JPL-GW, DUP-1-4Q14, 10/21/2014 11:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/23/14	10/23/14 13:43	MGC	MS-V5	1	BXJ2011

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**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425001-12	<b>Client Sample Name:</b> JPL-GW, DUP-1-4Q14, 10/21/2014 11:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	4.8	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	10/30/14	10/31/14 03:38	LD1	IC6	1	BXJ2852

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**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425001-12	<b>Client Sample Name:</b> JPL-GW, DUP-1-4Q14, 10/21/2014 11:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0019	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	2.5	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	10/22/14	10/22/14	08:16	TDC	KONE-1	1	BXJ2077
2	EPA-200.8	12/08/14	12/08/14	18:36	SRM	PE-EL2	1	BXL0700

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Reported: 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
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
<b>QC Batch ID: BXJ2010</b>						
Benzene	BXJ2010-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXJ2010-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXJ2010-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXJ2010-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXJ2010-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXJ2010-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXJ2010-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXJ2010-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXJ2010-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXJ2010-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXJ2010-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXJ2010-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXJ2010-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXJ2010-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXJ2010-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXJ2010-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BXJ2010-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXJ2010-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXJ2010-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXJ2010-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXJ2010-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXJ2010-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXJ2010-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXJ2010-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXJ2010-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXJ2010-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXJ2010-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXJ2010-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXJ2010-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXJ2010-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXJ2010-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXJ2010-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXJ2010-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXJ2010-BLK1	ND	ug/L	0.50	0.14	

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Powell, OH 43065

Reported: 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
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
<b>QC Batch ID: BXJ2010</b>						
trans-1,3-Dichloropropene	BXJ2010-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXJ2010-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXJ2010-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXJ2010-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXJ2010-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXJ2010-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXJ2010-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXJ2010-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXJ2010-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXJ2010-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXJ2010-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BXJ2010-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethane	BXJ2010-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXJ2010-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXJ2010-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXJ2010-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BXJ2010-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXJ2010-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXJ2010-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXJ2010-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXJ2010-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXJ2010-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXJ2010-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXJ2010-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXJ2010-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXJ2010-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXJ2010-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXJ2010-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXJ2010-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXJ2010-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXJ2010-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXJ2010-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXJ2010-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXJ2010-BLK1	ND	ug/L	4.0	0.97	

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3761 Attucks Drive  
Powell, OH 43065

Reported: 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
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**QC Batch ID: BXJ2010**

Ethyl t-butyl ether	BXJ2010-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXJ2010-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXJ2010-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXJ2010-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXJ2010-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXJ2010-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXJ2010-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXJ2010-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXJ2010-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXJ2010-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXJ2010-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXJ2010-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXJ2010-BLK1	ND	ug/L	0.50	0.082	
<b>1,2-Dichloroethane-d4 (Surrogate)</b>	<b>BXJ2010-BLK1</b>	<b>110</b>	<b>%</b>	<b>75 - 125 (LCL - UCL)</b>		
<b>Toluene-d8 (Surrogate)</b>	<b>BXJ2010-BLK1</b>	<b>100</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		
<b>4-Bromofluorobenzene (Surrogate)</b>	<b>BXJ2010-BLK1</b>	<b>91.1</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		

**QC Batch ID: BXJ2011**

Benzene	BXJ2011-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXJ2011-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXJ2011-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXJ2011-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXJ2011-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXJ2011-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXJ2011-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXJ2011-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXJ2011-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXJ2011-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXJ2011-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXJ2011-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXJ2011-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXJ2011-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXJ2011-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXJ2011-BLK1	ND	ug/L	0.50	0.15	

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Reported: 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
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
<b>QC Batch ID: BXJ2011</b>						
Dibromochloromethane	BXJ2011-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXJ2011-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXJ2011-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXJ2011-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXJ2011-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXJ2011-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXJ2011-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXJ2011-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXJ2011-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXJ2011-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXJ2011-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXJ2011-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXJ2011-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXJ2011-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXJ2011-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXJ2011-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXJ2011-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXJ2011-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	BXJ2011-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXJ2011-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXJ2011-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXJ2011-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXJ2011-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXJ2011-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXJ2011-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXJ2011-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXJ2011-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXJ2011-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXJ2011-BLK1	ND	ug/L	0.50	0.18	
1,1,1,2,2-Tetrachloroethane	BXJ2011-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BXJ2011-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXJ2011-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXJ2011-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXJ2011-BLK1	ND	ug/L	0.50	0.19	

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Reported: 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
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
<b>QC Batch ID: BXJ2011</b>						
1,1,1-Trichloroethane	BXJ2011-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXJ2011-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXJ2011-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXJ2011-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXJ2011-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXJ2011-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXJ2011-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXJ2011-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXJ2011-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXJ2011-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXJ2011-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXJ2011-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXJ2011-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXJ2011-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXJ2011-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXJ2011-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXJ2011-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXJ2011-BLK1	ND	ug/L	4.0	0.97	
Ethyl t-butyl ether	BXJ2011-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXJ2011-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXJ2011-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXJ2011-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXJ2011-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXJ2011-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXJ2011-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXJ2011-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXJ2011-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXJ2011-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXJ2011-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXJ2011-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXJ2011-BLK1	ND	ug/L	0.50	0.082	
<b>1,2-Dichloroethane-d4 (Surrogate)</b>	<b>BXJ2011-BLK1</b>	<b>104</b>	<b>%</b>	<b>75 - 125 (LCL - UCL)</b>		
<b>Toluene-d8 (Surrogate)</b>	<b>BXJ2011-BLK1</b>	<b>101</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		
<b>4-Bromofluorobenzene (Surrogate)</b>	<b>BXJ2011-BLK1</b>	<b>89.0</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		

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3761 Attucks Drive  
Powell, OH 43065

Reported: 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
<b>QC Batch ID: BXJ2010</b>										
Benzene	BXJ2010-BS1	LCS	24.600	25.000	ug/L	98.4		70 - 130		
Bromodichloromethane	BXJ2010-BS1	LCS	25.040	25.000	ug/L	100		70 - 130		
Chlorobenzene	BXJ2010-BS1	LCS	25.400	25.000	ug/L	102		70 - 130		
Chloroethane	BXJ2010-BS1	LCS	26.750	25.000	ug/L	107		70 - 130		
1,4-Dichlorobenzene	BXJ2010-BS1	LCS	27.430	25.000	ug/L	110		70 - 130		
1,1-Dichloroethane	BXJ2010-BS1	LCS	23.200	25.000	ug/L	92.8		70 - 130		
1,1-Dichloroethene	BXJ2010-BS1	LCS	24.690	25.000	ug/L	98.8		70 - 130		
Toluene	BXJ2010-BS1	LCS	25.120	25.000	ug/L	100		70 - 130		
Trichloroethene	BXJ2010-BS1	LCS	25.160	25.000	ug/L	101		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXJ2010-BS1	LCS	9.8600	10.000	ug/L	98.6		75 - 125		
Toluene-d8 (Surrogate)	BXJ2010-BS1	LCS	10.040	10.000	ug/L	100		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXJ2010-BS1	LCS	10.250	10.000	ug/L	102		80 - 120		

<b>QC Batch ID: BXJ2011</b>										
Benzene	BXJ2011-BS1	LCS	24.760	25.000	ug/L	99.0		70 - 130		
Bromodichloromethane	BXJ2011-BS1	LCS	26.010	25.000	ug/L	104		70 - 130		
Chlorobenzene	BXJ2011-BS1	LCS	25.600	25.000	ug/L	102		70 - 130		
Chloroethane	BXJ2011-BS1	LCS	28.280	25.000	ug/L	113		70 - 130		
1,4-Dichlorobenzene	BXJ2011-BS1	LCS	28.040	25.000	ug/L	112		70 - 130		
1,1-Dichloroethane	BXJ2011-BS1	LCS	24.310	25.000	ug/L	97.2		70 - 130		
1,1-Dichloroethene	BXJ2011-BS1	LCS	24.490	25.000	ug/L	98.0		70 - 130		
Toluene	BXJ2011-BS1	LCS	26.640	25.000	ug/L	107		70 - 130		
Trichloroethene	BXJ2011-BS1	LCS	25.620	25.000	ug/L	102		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXJ2011-BS1	LCS	9.9000	10.000	ug/L	99.0		75 - 125		
Toluene-d8 (Surrogate)	BXJ2011-BS1	LCS	10.250	10.000	ug/L	102		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXJ2011-BS1	LCS	10.220	10.000	ug/L	102		80 - 120		

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Reported: 01/07/2015 12:08
Project: JPL- GW Monitoring Wells
Project Number: 4th Quarter
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes QC Batch ID: BXJ2010 and Used client sample: Y - Description: MW-3-3, 10/21/2014 08:40.

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes QC Batch ID: BXJ2011 and Used client sample: Y - Description: MW-14-2, 10/21/2014 13:45.

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Reported: 01/07/2015 12:08  
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Project Number: 4th Quarter  
Project Manager: David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery		Lab
								RPD	Percent Recovery	
<b>QC Batch ID: BXJ2011</b>										
Used client sample: Y - Description: MW-14-2, 10/21/2014 13:45										
1,1-Dichloroethene	MS	1425001-11	ND	25.040	25.000	ug/L		100		70 - 130
	MSD	1425001-11	ND	24.820	25.000	ug/L	0.9	99.3	20	70 - 130
Toluene	MS	1425001-11	ND	26.900	25.000	ug/L		108		70 - 130
	MSD	1425001-11	ND	26.630	25.000	ug/L	1.0	107	20	70 - 130
Trichloroethene	MS	1425001-11	3.8300	31.090	25.000	ug/L		109		70 - 130
	MSD	1425001-11	3.8300	29.580	25.000	ug/L	5.0	103	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1425001-11	ND	10.070	10.000	ug/L		101		75 - 125
	MSD	1425001-11	ND	9.7300	10.000	ug/L	3.4	97.3		75 - 125
Toluene-d8 (Surrogate)	MS	1425001-11	ND	10.170	10.000	ug/L		102		80 - 120
	MSD	1425001-11	ND	10.380	10.000	ug/L	2.0	104		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1425001-11	ND	10.140	10.000	ug/L		101		80 - 120
	MSD	1425001-11	ND	10.700	10.000	ug/L	5.4	107		80 - 120

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**Reported:** 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
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**QC Batch ID: BXJ2010**

Chloroacetonitrile	BXJ2010-BLK1	0	ug/L			
1-Chlorobutane	BXJ2010-BLK1	0	ug/L			
1,1-Dichloropropanone	BXJ2010-BLK1	0	ug/L			
Methyl acrylate	BXJ2010-BLK1	0	ug/L			
Nitrobenzene	BXJ2010-BLK1	0	ug/L			
2-Nitropropane	BXJ2010-BLK1	0	ug/L			

**QC Batch ID: BXJ2011**

Chloroacetonitrile	BXJ2011-BLK1	0	ug/L			
1-Chlorobutane	BXJ2011-BLK1	0	ug/L			
1,1-Dichloropropanone	BXJ2011-BLK1	0	ug/L			
Methyl acrylate	BXJ2011-BLK1	0	ug/L			
Nitrobenzene	BXJ2011-BLK1	0	ug/L			
2-Nitropropane	BXJ2011-BLK1	0	ug/L			

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**Project Manager:** David Conner

### Water Analysis (General Chemistry)

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: BXJ2850</b>						
Perchlorate	BXJ2850-BLK1	0.68150	ug/L	4.0	0.45	J
<b>QC Batch ID: BXJ2852</b>						
Perchlorate	BXJ2852-BLK1	ND	ug/L	4.0	0.45	

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Project Number: 4th Quarter  
Project Manager: David Conner

## Water Analysis (General Chemistry)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: BXJ2850</b>										
Perchlorate	BXJ2850-BS1	LCS	9.7552	10.000	ug/L	97.6		85	115	
<b>QC Batch ID: BXJ2852</b>										
Perchlorate	BXJ2852-BS1	LCS	9.8515	10.000	ug/L	98.5		85	115	

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

Reported: 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Water Analysis (General Chemistry)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: BXJ2850</b>		Used client sample: Y - Description: MW-3-3, 10/21/2014 08:40								
Perchlorate	DUP	1425001-05	1.0353	1.0212		ug/L	1.4		15	J
	MS	1425001-05	1.0353	9.9851	10.101	ug/L		88.6	80 - 120	
	MSD	1425001-05	1.0353	9.8874	10.101	ug/L	1.0	87.6	15 80 - 120	
<b>QC Batch ID: BXJ2852</b>		Used client sample: Y - Description: MW-14-2, 10/21/2014 13:45								
Perchlorate	DUP	1425001-11	3.8931	3.6069		ug/L	7.6		15	J
	MS	1425001-11	3.8931	13.453	10.101	ug/L		94.6	80 - 120	
	MSD	1425001-11	3.8931	14.143	10.101	ug/L	5.0	101	15 80 - 120	

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: BXJ2076</b>						
Hexavalent Chromium	BXJ2076-BLK1	ND	mg/L	0.0020	0.00070	
<b>QC Batch ID: BXJ2077</b>						
Hexavalent Chromium	BXJ2077-BLK1	ND	mg/L	0.0020	0.00070	
<b>QC Batch ID: BXL0696</b>						
Total Recoverable Chromium	BXL0696-BLK1	ND	ug/L	3.0	0.50	
<b>QC Batch ID: BXL0700</b>						
Total Recoverable Chromium	BXL0700-BLK1	ND	ug/L	3.0	0.50	

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Metals Analysis

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: BXJ2076</b>										
Hexavalent Chromium	BXJ2076-BS1	LCS	0.049476	0.050000	mg/L	99.0		85	115	
<b>QC Batch ID: BXJ2077</b>										
Hexavalent Chromium	BXJ2077-BS1	LCS	0.050537	0.050000	mg/L	101		85	115	
<b>QC Batch ID: BXL0696</b>										
Total Recoverable Chromium	BXL0696-BS1	LCS	42.173	40.000	ug/L	105		85	115	
<b>QC Batch ID: BXL0700</b>										
Total Recoverable Chromium	BXL0700-BS1	LCS	43.140	40.000	ug/L	108		85	115	

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3761 Attucks Drive  
Powell, OH 43065

Reported: 01/07/2015 12:08  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Metals Analysis

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
<b>QC Batch ID: BXJ2076</b>		Used client sample: Y - Description: MW-3-3, 10/21/2014 08:40								
Hexavalent Chromium	DUP	1425001-05	ND	ND		mg/L			10	
	MS	1425001-05	ND	0.044748	0.052632	mg/L		85.0		85 - 115
	MSD	1425001-05	ND	0.048905	0.052632	mg/L	8.9	92.9	10	85 - 115
<b>QC Batch ID: BXJ2077</b>		Used client sample: Y - Description: MW-14-2, 10/21/2014 13:45								
Hexavalent Chromium	DUP	1425001-11	ND	ND		mg/L			10	
	MS	1425001-11	ND	0.053979	0.052632	mg/L		103		85 - 115
	MSD	1425001-11	ND	0.053889	0.052632	mg/L	0.2	102	10	85 - 115
<b>QC Batch ID: BXL0696</b>		Used client sample: Y - Description: EB-2-10/21/14, 10/21/2014 07:00								
Total Recoverable Chromium	DUP	425001-02RE	ND	ND		ug/L			20	
	MS	425001-02RE	ND	43.720	40.000	ug/L		109		70 - 130
	MSD	425001-02RE	ND	42.874	40.000	ug/L	2.0	107	20	70 - 130
<b>QC Batch ID: BXL0700</b>		Used client sample: Y - Description: DUP-1-4Q14, 10/21/2014 11:50								
Total Recoverable Chromium	DUP	425001-12RE	2.4830	2.8400		ug/L	13.4		20	J
	MS	425001-12RE	2.4830	41.816	40.000	ug/L		98.3		70 - 130
	MSD	425001-12RE	2.4830	42.147	40.000	ug/L	0.8	99.2	20	70 - 130

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 01/07/2015 12:08  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**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.
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.



Date of Report: 11/07/2014

David Conner

Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

Client Project: 4th Quarter  
BCL Project: JPL- GW Monitoring Wells  
BCL Work Order: 1425112  
Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 10/22/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton  
Client Service Rep

Authorized Signature

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

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Chain of Custody Form



Report To: Tidewater, Inc.  
 Client: David Conner  
 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 #: A-2512

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

Analysis Requested:  
 VOCs EPA 524.2  
 Total Cr (200.8)  
 Perchlorate (EPA 314.0)  
 Chloride, Nitrate, Sulfate (300)  
 Orthophosphate (365.1)  
 Nitrite (353.2)  
 Hexavalent Cr (7196)

Matrix\*  
 Date Time  
 10-22-14 06:30 AB  
 10-22-14 07:00  
 10-22-14 07:30  
 10-22-14 08:10  
 10-22-14 08:40  
 10-22-14 09:10  
 10-22-14 09:40  
 10-22-14 10:40  
 10-22-14 11:20  
 10-22-14 12:00  
 10-22-14 13:00

Notes:  
 SHORT HOLDING TIME  
 Cr-6 NO2 NO3 OP SS  
 DO Cl2 BOD MBAS GOT  
 CHK BY DISTRIBUTION  
 M M SUB-OUT  
 Level IV  
 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 3-5 Day Rush  
 Lab TAT Approval: \* Additional Charges May Apply

Global ID:  
 1. Relinquished By: Date Time  
 2. Relinquished By: Date Time  
 3. Relinquished By: Date Time

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

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

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





BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 of 2

Submission #: 14-25112

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  Containers  None  Comments: \_\_\_\_\_

Intact? Yes  No  Intact? Yes  No

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

COC Received: YES  NO

Emissivity: 0.97 Container: Jars Thermometer ID: 209 Date/Time: 10/27/14 8:50

Temperature: (A) 6.8 °C (C) 6.2 °C Analyst Init: [Signature]

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL		D	D	D	D	D	E	D	D	D
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS		E	E	E	E	E	E	E	E	E
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A									
40ml VOA VIAL		ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC
QT EPA 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										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber 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: [Signature] Date/Time: 10/27/14 9:35 [Signature]

A = Actual / C = Corrected



**COOLER RECEIPT FORM**      Rev. No. 18    09/04/14    Page 2 of 2

BC LABORATORIES INC.

Submission #: 1425112

<p><b>SHIPPING INFORMATION</b></p> <p>Federal Express <input type="checkbox"/>    UPS <input type="checkbox"/>    Hand Delivery <input type="checkbox"/></p> <p>BC Lab Field Service <input checked="" type="checkbox"/>    Other <input type="checkbox"/> (Specify) _____</p>	<p><b>SHIPPING CONTAINER</b></p> <p>Ice Chest <input checked="" type="checkbox"/>    None <input type="checkbox"/>    Box <input type="checkbox"/></p> <p>Other <input type="checkbox"/> (Specify) _____</p>	<p><b>FREE LIQUID</b></p> <p>YES <input type="checkbox"/>    NO <input type="checkbox"/></p>
--	--	--

Refrigerant: Ice     Blue Ice     None     Other     Comments: \_\_\_\_\_

Custody Seals: Ice Chest     Containers     None     Comments: \_\_\_\_\_

Intact? Yes  No     Intact? Yes  No

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

**COC Received**  
 YES     NO

Emissivity: 0.97    Container: Loose    Thermometer ID: 209    Date/Time: 10/21/14 1850

Temperature: (A) 6.8 °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	J									
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS	K									
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A-1									
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										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber 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										
Gamma Canister										

Numbering Completed By: M    Date/Time: 10/21/14 1850    S:\WPDoc\WordPerfect\LAB\_DOC\SI\FORMS\ISAMREC1

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

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

<b>1425112-01</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> TB-3-10/22/14 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/22/2014 18:50 <b>Sampling Date:</b> 10/22/2014 06:30 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-3-10/22/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

<b>1425112-02</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> EB-3-10/22/14 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/22/2014 18:50 <b>Sampling Date:</b> 10/22/2014 07:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-3-10/22/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1425112-03</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-11-5 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/22/2014 18:50 <b>Sampling Date:</b> 10/22/2014 07:30 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-11-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Powell, OH 43065

**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

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

<b>1425112-04</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-11-4 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/22/2014 18:50 <b>Sampling Date:</b> 10/22/2014 08:10 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-11-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

<b>1425112-05</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-11-3 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/22/2014 18:50 <b>Sampling Date:</b> 10/22/2014 08:40 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-11-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

<b>1425112-06</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-11-2 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/22/2014 18:50 <b>Sampling Date:</b> 10/22/2014 09:10 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-11-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

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

<b>1425112-07</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-11-1 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/22/2014 18:50 <b>Sampling Date:</b> 10/22/2014 09:40 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> 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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<b>1425112-08</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-17-5 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/22/2014 18:50 <b>Sampling Date:</b> 10/22/2014 10:40 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-17-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1425112-09</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-17-4 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/22/2014 18:50 <b>Sampling Date:</b> 10/22/2014 11:20 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> 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:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>1425112-10</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-17-3 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/22/2014 18:50 <b>Sampling Date:</b> 10/22/2014 12:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-17-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1425112-11</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-17-2 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/22/2014 18:50 <b>Sampling Date:</b> 10/22/2014 13:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-17-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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3761 Attucks Drive  
Powell, OH 43065

Reported: 11/07/2014 12:30  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425112-01	<b>Client Sample Name:</b> JPL-GW, TB-3-10/22/14, 10/22/2014 6:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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: 11/07/2014 12:30  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425112-01	<b>Client Sample Name:</b> JPL-GW, TB-3-10/22/14, 10/22/2014 6:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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	V11	1

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/07/2014 12:30  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425112-01	<b>Client Sample Name:</b> JPL-GW, TB-3-10/22/14, 10/22/2014 6:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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	V11	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)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	87.5	%	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	10/23/14	10/24/14 02:11	MGC	MS-V5	1	BXJ2164

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425112-01	<b>Client Sample Name:</b> JPL-GW, TB-3-10/22/14, 10/22/2014 6:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/23/14	10/24/14 02:11	MGC	MS-V5	1	BXJ2164

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3761 Attucks Drive  
Powell, OH 43065

Reported: 11/07/2014 12:30  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425112-02	<b>Client Sample Name:</b> JPL-GW, EB-3-10/22/14, 10/22/2014 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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: 11/07/2014 12:30  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425112-02	<b>Client Sample Name:</b> JPL-GW, EB-3-10/22/14, 10/22/2014 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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	V11	1

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425112-02	<b>Client Sample Name:</b> JPL-GW, EB-3-10/22/14, 10/22/2014 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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	V11	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)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	86.6	%	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	10/23/14	10/24/14 02:33	MGC	MS-V5	1	BXJ2164

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425112-02	<b>Client Sample Name:</b> JPL-GW, EB-3-10/22/14, 10/22/2014 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	10/23/14	10/24/14 02:33	MGC	MS-V5	1	BXJ2164

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**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425112-02	<b>Client Sample Name:</b> JPL-GW, EB-3-10/22/14, 10/22/2014 7:00:00AM, Blaine Tech
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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	10/30/14	10/31/14 03:52	LD1	IC6	1	BXJ2852

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**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425112-02	<b>Client Sample Name:</b> JPL-GW, EB-3-10/22/14, 10/22/2014 7:00:00AM, Blaine Tech
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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		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	10/23/14	10/23/14 00:52	BMW	KONE-1	1	BXJ2276
2	EPA-200.8	11/05/14	11/05/14 19:05	SRM	PE-EL2	1	BXK0339

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Reported: 11/07/2014 12:30  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1425112-03 Client Sample Name: JPL-GW, MW-11-5, 10/22/2014 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	V11	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: 11/07/2014 12:30  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425112-03	<b>Client Sample Name:</b> JPL-GW, MW-11-5, 10/22/2014 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Styrene</b>	<b>0.11</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.068</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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	V11	1

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425112-03	<b>Client Sample Name:</b> JPL-GW, MW-11-5, 10/22/2014 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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	V11	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)	101	%	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	10/23/14	10/24/14 02:56	MGC	MS-V5	1	BXJ2164

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Powell, OH 43065

**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425112-03	<b>Client Sample Name:</b> JPL-GW, MW-11-5, 10/22/2014 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	10/23/14	10/24/14 02:56	MGC	MS-V5	1	BXJ2164

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**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425112-03	<b>Client Sample Name:</b> JPL-GW, MW-11-5, 10/22/2014 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	10/30/14	10/31/14 04:33	LD1	IC6	1	BXJ2852

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Powell, OH 43065

**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425112-03	<b>Client Sample Name:</b> JPL-GW, MW-11-5, 10/22/2014 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
<b>Total Recoverable Chromium</b>	<b>1.2</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	10/23/14	10/23/14 00:52	BMW	KONE-1	1	BXJ2276
2	EPA-200.8	11/05/14	11/05/14 19:08	SRM	PE-EL2	1	BXK0339

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Reported: 11/07/2014 12:30  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425112-04	<b>Client Sample Name:</b> JPL-GW, MW-11-4, 10/22/2014 8:10:00AM, 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	V11	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: 11/07/2014 12:30  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425112-04	<b>Client Sample Name:</b> JPL-GW, MW-11-4, 10/22/2014 8:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Styrene</b>	<b>0.11</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.068</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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
<b>Carbon disulfide</b>	<b>0.47</b>	<b>ug/L</b>	<b>1.0</b>	<b>0.38</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND	V11	1

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

Reported: 11/07/2014 12:30  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425112-04	<b>Client Sample Name:</b> JPL-GW, MW-11-4, 10/22/2014 8:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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	V11	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)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	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	10/23/14	10/24/14 03:19	MGC	MS-V5	1	BXJ2164

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425112-04	<b>Client Sample Name:</b> JPL-GW, MW-11-4, 10/22/2014 8:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/23/14	10/24/14 03:19	MGC	MS-V5	1	BXJ2164

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Powell, OH 43065

**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425112-04	<b>Client Sample Name:</b> JPL-GW, MW-11-4, 10/22/2014 8:10:00AM, Blaine Tech
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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	10/30/14	10/31/14 04:47	LD1	IC6	1	BXJ2852

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**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425112-04	<b>Client Sample Name:</b> JPL-GW, MW-11-4, 10/22/2014 8:10:00AM, Blaine Tech
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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		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	10/23/14	10/23/14 00:52	BMW	KONE-1	1	BXJ2276
2	EPA-200.8	11/05/14	11/05/14 19:12	SRM	PE-EL2	1	BXK0339

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Reported: 11/07/2014 12:30  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425112-05	<b>Client Sample Name:</b> JPL-GW, MW-11-3, 10/22/2014 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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
<b>Carbon tetrachloride</b>	<b>0.21</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.18</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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
<b>Chloroform</b>	<b>0.20</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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: 11/07/2014 12:30  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425112-05	<b>Client Sample Name:</b> JPL-GW, MW-11-3, 10/22/2014 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Styrene</b>	<b>0.070</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.068</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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
<b>Trichloroethene</b>	<b>0.090</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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	V11	1

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425112-05	<b>Client Sample Name:</b> JPL-GW, MW-11-3, 10/22/2014 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	V11	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	V11	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)	99.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	86.1	%	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	10/23/14	10/24/14 03:41	MGC	MS-V5	1	BXJ2164

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Powell, OH 43065

**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425112-05	<b>Client Sample Name:</b> JPL-GW, MW-11-3, 10/22/2014 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/23/14	10/24/14 03:41	MGC	MS-V5	1	BXJ2164

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425112-05	<b>Client Sample Name:</b> JPL-GW, MW-11-3, 10/22/2014 8:40:00AM, Blaine Tech
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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	10/30/14	10/31/14 05:01	LD1	IC6	1	BXJ2852

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**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425112-05	<b>Client Sample Name:</b> JPL-GW, MW-11-3, 10/22/2014 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
<b>Total Recoverable Chromium</b>	<b>0.61</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	10/23/14	10/23/14 01:34	BMW	KONE-1	1	BXJ2276
2	EPA-200.8	11/05/14	11/05/14 19:15	SRM	PE-EL2	1	BXK0339

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Reported: 11/07/2014 12:30  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1425112-06 Client Sample Name: JPL-GW, MW-11-2, 10/22/2014 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	V11	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: 11/07/2014 12:30  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425112-06	<b>Client Sample Name:</b> JPL-GW, MW-11-2, 10/22/2014 9:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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	V11	1

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425112-06	<b>Client Sample Name:</b> JPL-GW, MW-11-2, 10/22/2014 9:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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	V11	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)	101	%	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	10/23/14	10/24/14 04:04	MGC	MS-V5	1	BXJ2164

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425112-06	<b>Client Sample Name:</b> JPL-GW, MW-11-2, 10/22/2014 9:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/23/14	10/24/14 04:04	MGC	MS-V5	1	BXJ2164

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**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425112-06	<b>Client Sample Name:</b> JPL-GW, MW-11-2, 10/22/2014 9:10:00AM, Blaine Tech
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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	10/30/14	10/31/14 05:15	LD1	IC6	1	BXJ2852

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**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425112-06	<b>Client Sample Name:</b> JPL-GW, MW-11-2, 10/22/2014 9:10:00AM, Blaine Tech
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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		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	10/23/14	10/23/14 00:54	BMW	KONE-1	1	BXJ2276
2	EPA-200.8	11/05/14	11/05/14 19:19	SRM	PE-EL2	1	BXK0339

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Reported: 11/07/2014 12:30  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1425112-07 Client Sample Name: JPL-GW, MW-11-1, 10/22/2014 9:40:00AM, 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	V11	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: 11/07/2014 12:30  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425112-07	<b>Client Sample Name:</b> JPL-GW, MW-11-1, 10/22/2014 9:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Styrene</b>	<b>0.080</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.068</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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	V11	1

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425112-07	<b>Client Sample Name:</b> JPL-GW, MW-11-1, 10/22/2014 9:40:00AM, 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	V11	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	V11	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)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	86.8	%	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	10/23/14	10/24/14 04:26	MGC	MS-V5	1	BXJ2164

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**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425112-07	<b>Client Sample Name:</b> JPL-GW, MW-11-1, 10/22/2014 9:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/23/14	10/24/14 04:26	MGC	MS-V5	1	BXJ2164

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**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425112-07	<b>Client Sample Name:</b> JPL-GW, MW-11-1, 10/22/2014 9:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride	14	mg/L	0.50	0.067	EPA-300.0	ND		1
Nitrate as N	0.22	mg/L	0.10	0.025	EPA-300.0	ND		1
Sulfate	30	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	ND	ug/L	4.0	0.45	EPA-314.0	ND		3
ortho-Phosphate as P	0.020	mg/L	0.020	0.0057	EPA-365.1	ND		4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	10/23/14	10/23/14 13:58	OLH	IC1	1	BXJ2192
2	EPA-353.2	10/23/14	10/23/14 08:21	TDC	KONE-1	1	BXJ2290
3	EPA-314.0	10/30/14	10/31/14 05:29	LD1	IC6	1	BXJ2852
4	EPA-365.1	10/23/14	10/23/14 08:20	TDC	KONE-1	1	BXJ2288

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**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425112-07	<b>Client Sample Name:</b> JPL-GW, MW-11-1, 10/22/2014 9:40:00AM, 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		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	10/23/14	10/23/14 07:21	BMW	KONE-1	1	BXJ2276
2	EPA-200.8	11/05/14	11/05/14 19:22	SRM	PE-EL2	1	BXK0339

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Reported: 11/07/2014 12:30  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425112-08	<b>Client Sample Name:</b> JPL-GW, MW-17-5, 10/22/2014 10:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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: 11/07/2014 12:30  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1425112-08		Client Sample Name: JPL-GW, MW-17-5, 10/22/2014 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
<b>Styrene</b>	<b>0.080</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.068</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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
<b>Trichloroethene</b>	<b>0.36</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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	V11	1

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425112-08	<b>Client Sample Name:</b> JPL-GW, MW-17-5, 10/22/2014 10:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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	V11	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)	88.0	%	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	10/23/14	10/24/14 04:49	MGC	MS-V5	1	BXJ2164

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**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425112-08	<b>Client Sample Name:</b> JPL-GW, MW-17-5, 10/22/2014 10:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/23/14	10/24/14 04:49	MGC	MS-V5	1	BXJ2164

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**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425112-08	<b>Client Sample Name:</b> JPL-GW, MW-17-5, 10/22/2014 10:40:00AM, Blaine Tech
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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	10/30/14	10/31/14 05:43	LD1	IC6	1	BXJ2852

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**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425112-08	<b>Client Sample Name:</b> JPL-GW, MW-17-5, 10/22/2014 10:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
<b>Total Recoverable Chromium</b>	<b>0.66</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	ND	J	2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	10/23/14	10/23/14 07:05	BMW	KONE-1	1	BXJ2276
2	EPA-200.8	11/05/14	11/05/14 19:25	SRM	PE-EL2	1	BXK0339

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

Reported: 11/07/2014 12:30  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425112-09	<b>Client Sample Name:</b> JPL-GW, MW-17-4, 10/22/2014 11:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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
<b>Carbon tetrachloride</b>	<b>0.32</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.18</b>	<b>EPA-524.2</b>	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
<b>Chloroform</b>	<b>0.55</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	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: 11/07/2014 12:30  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425112-09	<b>Client Sample Name:</b> JPL-GW, MW-17-4, 10/22/2014 11:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Tetrachloroethene</b>	<b>0.31</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.13</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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
<b>Trichloroethene</b>	<b>1.7</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	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	V11	1

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

Reported: 11/07/2014 12:30  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425112-09	<b>Client Sample Name:</b> JPL-GW, MW-17-4, 10/22/2014 11:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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	V11	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)	109	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	88.6	%	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	10/23/14	10/24/14 05:11	MGC	MS-V5	1	BXJ2164

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425112-09	<b>Client Sample Name:</b> JPL-GW, MW-17-4, 10/22/2014 11:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/23/14	10/24/14 05:11	MGC	MS-V5	1	BXJ2164

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425112-09	<b>Client Sample Name:</b> JPL-GW, MW-17-4, 10/22/2014 11:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	6.8	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	10/30/14	10/31/14 05:56	LD1	IC6	1	BXJ2852

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Powell, OH 43065

**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425112-09	<b>Client Sample Name:</b> JPL-GW, MW-17-4, 10/22/2014 11:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
<b>Total Recoverable Chromium</b>	<b>0.56</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	ND	J	2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	10/23/14	10/23/14 07:06	BMW	KONE-1	1	BXJ2276
2	EPA-200.8	11/05/14	11/05/14 19:29	SRM	PE-EL2	1	BXK0339

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

Reported: 11/07/2014 12:30  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425112-10	<b>Client Sample Name:</b> JPL-GW, MW-17-3, 10/22/2014 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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
<b>Chloroform</b>	<b>0.29</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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
<b>1,1-Dichloroethane</b>	<b>0.13</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.11</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
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: 11/07/2014 12:30  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425112-10	<b>Client Sample Name:</b> JPL-GW, MW-17-3, 10/22/2014 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Tetrachloroethene</b>	<b>0.32</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.13</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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
<b>Trichloroethene</b>	<b>0.46</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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	V11	1

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/07/2014 12:30  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425112-10	<b>Client Sample Name:</b> JPL-GW, MW-17-3, 10/22/2014 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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	V11	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)	101	%	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	10/23/14	10/24/14 05:34	MGC	MS-V5	1	BXJ2164

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Powell, OH 43065

**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425112-10	<b>Client Sample Name:</b> JPL-GW, MW-17-3, 10/22/2014 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/23/14	10/24/14 05:34	MGC	MS-V5	1	BXJ2164

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**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425112-10	<b>Client Sample Name:</b> JPL-GW, MW-17-3, 10/22/2014 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	6.2	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	10/31/14	10/31/14 14:53	BMW	IC6	1	BXK0220

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**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425112-10	<b>Client Sample Name:</b> JPL-GW, MW-17-3, 10/22/2014 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
<b>Total Recoverable Chromium</b>	<b>0.70</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	ND	J	2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	10/23/14	10/23/14 07:06	BMW	KONE-1	1	BXJ2276
2	EPA-200.8	11/05/14	11/05/14 19:32	SRM	PE-EL2	1	BXK0339

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Reported: 11/07/2014 12:30  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425112-11	<b>Client Sample Name:</b> JPL-GW, MW-17-2, 10/22/2014 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

**BCL Sample ID:** 1425112-11      **Client Sample Name:** JPL-GW, MW-17-2, 10/22/2014 1:00:00PM, 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	V11	1

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425112-11	<b>Client Sample Name:</b> JPL-GW, MW-17-2, 10/22/2014 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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	V11	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)	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	10/23/14	10/24/14 01:48	MGC	MS-V5	1	BXJ2164

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Powell, OH 43065

**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425112-11	<b>Client Sample Name:</b> JPL-GW, MW-17-2, 10/22/2014 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/23/14	10/24/14 01:48	MGC	MS-V5	1	BXJ2164

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**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425112-11	<b>Client Sample Name:</b> JPL-GW, MW-17-2, 10/22/2014 1:00:00PM, Blaine Tech
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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	10/31/14	10/31/14 15:07	BMW	IC6	1	BXK0220

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Powell, OH 43065

**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425112-11	<b>Client Sample Name:</b> JPL-GW, MW-17-2, 10/22/2014 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0040	0.0014	EPA-7196	ND	A10	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	10/23/14	10/23/14 01:51	BMW	KONE-1	2	BXJ2276
2	EPA-200.8	11/05/14	11/05/14 18:36	SRM	PE-EL2	1	BXK0339

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Reported: 11/07/2014 12:30  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
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
<b>QC Batch ID: BXJ2164</b>						
Benzene	BXJ2164-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXJ2164-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXJ2164-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXJ2164-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXJ2164-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXJ2164-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXJ2164-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXJ2164-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXJ2164-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXJ2164-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXJ2164-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXJ2164-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXJ2164-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXJ2164-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXJ2164-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXJ2164-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BXJ2164-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXJ2164-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXJ2164-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXJ2164-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXJ2164-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXJ2164-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXJ2164-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXJ2164-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXJ2164-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXJ2164-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXJ2164-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXJ2164-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXJ2164-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXJ2164-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXJ2164-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXJ2164-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXJ2164-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXJ2164-BLK1	ND	ug/L	0.50	0.14	

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

Reported: 11/07/2014 12:30  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
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
<b>QC Batch ID: BXJ2164</b>						
trans-1,3-Dichloropropene	BXJ2164-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXJ2164-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXJ2164-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXJ2164-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXJ2164-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXJ2164-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXJ2164-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXJ2164-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXJ2164-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXJ2164-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXJ2164-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BXJ2164-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethane	BXJ2164-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXJ2164-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXJ2164-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXJ2164-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BXJ2164-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXJ2164-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXJ2164-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXJ2164-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXJ2164-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXJ2164-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXJ2164-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXJ2164-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXJ2164-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXJ2164-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXJ2164-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXJ2164-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXJ2164-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXJ2164-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXJ2164-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXJ2164-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXJ2164-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXJ2164-BLK1	ND	ug/L	4.0	0.97	

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

Reported: 11/07/2014 12:30  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
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
<b>QC Batch ID: BXJ2164</b>						
Ethyl t-butyl ether	BXJ2164-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXJ2164-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXJ2164-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXJ2164-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXJ2164-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXJ2164-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXJ2164-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXJ2164-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXJ2164-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXJ2164-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXJ2164-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXJ2164-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXJ2164-BLK1	ND	ug/L	0.50	0.082	
<b>1,2-Dichloroethane-d4 (Surrogate)</b>	<b>BXJ2164-BLK1</b>	<b>107</b>	<b>%</b>	<b>75 - 125 (LCL - UCL)</b>		
<b>Toluene-d8 (Surrogate)</b>	<b>BXJ2164-BLK1</b>	<b>99.0</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		
<b>4-Bromofluorobenzene (Surrogate)</b>	<b>BXJ2164-BLK1</b>	<b>90.6</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		

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Powell, OH 43065

**Reported:** 11/07/2014 12:30  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
<b>QC Batch ID: BXJ2164</b>										
Benzene	BXJ2164-BS1	LCS	24.750	25.000	ug/L	99.0		70 - 130		
Bromodichloromethane	BXJ2164-BS1	LCS	26.020	25.000	ug/L	104		70 - 130		
Chlorobenzene	BXJ2164-BS1	LCS	25.400	25.000	ug/L	102		70 - 130		
Chloroethane	BXJ2164-BS1	LCS	27.200	25.000	ug/L	109		70 - 130		
1,4-Dichlorobenzene	BXJ2164-BS1	LCS	28.160	25.000	ug/L	113		70 - 130		
1,1-Dichloroethane	BXJ2164-BS1	LCS	23.570	25.000	ug/L	94.3		70 - 130		
1,1-Dichloroethene	BXJ2164-BS1	LCS	24.290	25.000	ug/L	97.2		70 - 130		
Toluene	BXJ2164-BS1	LCS	26.590	25.000	ug/L	106		70 - 130		
Trichloroethene	BXJ2164-BS1	LCS	25.530	25.000	ug/L	102		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXJ2164-BS1	LCS	9.8500	10.000	ug/L	98.5		75 - 125		
Toluene-d8 (Surrogate)	BXJ2164-BS1	LCS	10.520	10.000	ug/L	105		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXJ2164-BS1	LCS	9.9700	10.000	ug/L	99.7		80 - 120		

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Reported: 11/07/2014 12:30  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery		Lab Quals
								RPD	Percent	
<b>QC Batch ID: BXJ2164</b>										
Used client sample: Y - Description: MW-17-2, 10/22/2014 13:00										
Benzene	MS	1425112-11	ND	24.510	25.000	ug/L		98.0		70 - 130
	MSD	1425112-11	ND	24.780	25.000	ug/L	1.1	99.1	20	70 - 130
Bromodichloromethane	MS	1425112-11	ND	25.450	25.000	ug/L		102		70 - 130
	MSD	1425112-11	ND	25.740	25.000	ug/L	1.1	103	20	70 - 130
Chlorobenzene	MS	1425112-11	ND	25.360	25.000	ug/L		101		70 - 130
	MSD	1425112-11	ND	25.020	25.000	ug/L	1.3	100	20	70 - 130
Chloroethane	MS	1425112-11	ND	25.880	25.000	ug/L		104		70 - 130
	MSD	1425112-11	ND	26.750	25.000	ug/L	3.3	107	20	70 - 130
1,4-Dichlorobenzene	MS	1425112-11	ND	27.970	25.000	ug/L		112		70 - 130
	MSD	1425112-11	ND	27.150	25.000	ug/L	3.0	109	20	70 - 130
1,1-Dichloroethane	MS	1425112-11	ND	23.270	25.000	ug/L		93.1		70 - 130
	MSD	1425112-11	ND	23.700	25.000	ug/L	1.8	94.8	20	70 - 130
1,1-Dichloroethene	MS	1425112-11	ND	23.880	25.000	ug/L		95.5		70 - 130
	MSD	1425112-11	ND	24.210	25.000	ug/L	1.4	96.8	20	70 - 130
Toluene	MS	1425112-11	ND	25.710	25.000	ug/L		103		70 - 130
	MSD	1425112-11	ND	25.550	25.000	ug/L	0.6	102	20	70 - 130
Trichloroethene	MS	1425112-11	ND	25.210	25.000	ug/L		101		70 - 130
	MSD	1425112-11	ND	25.210	25.000	ug/L	0	101	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1425112-11	ND	9.6500	10.000	ug/L		96.5		75 - 125
	MSD	1425112-11	ND	9.9600	10.000	ug/L	3.2	99.6		75 - 125
Toluene-d8 (Surrogate)	MS	1425112-11	ND	10.170	10.000	ug/L		102		80 - 120
	MSD	1425112-11	ND	10.030	10.000	ug/L	1.4	100		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1425112-11	ND	10.280	10.000	ug/L		103		80 - 120
	MSD	1425112-11	ND	10.180	10.000	ug/L	1.0	102		80 - 120

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Powell, OH 43065

**Reported:** 11/07/2014 12:30  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
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
<b>QC Batch ID: BXJ2164</b>						
Chloroacetonitrile	BXJ2164-BLK1	0	ug/L			
1-Chlorobutane	BXJ2164-BLK1	0	ug/L			
1,1-Dichloropropanone	BXJ2164-BLK1	0	ug/L			
Methyl acrylate	BXJ2164-BLK1	0	ug/L			
Nitrobenzene	BXJ2164-BLK1	0	ug/L			
2-Nitropropane	BXJ2164-BLK1	0	ug/L			

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Powell, OH 43065

**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**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
<b>QC Batch ID: BXJ2192</b>						
Chloride	BXJ2192-BLK1	ND	mg/L	0.50	0.067	
Nitrate as N	BXJ2192-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXJ2192-BLK1	ND	mg/L	1.0	0.18	
<b>QC Batch ID: BXJ2288</b>						
ortho-Phosphate as P	BXJ2288-BLK1	ND	mg/L	0.020	0.0057	
<b>QC Batch ID: BXJ2290</b>						
Nitrite as N	BXJ2290-BLK1	ND	mg/L	0.050	0.010	
<b>QC Batch ID: BXJ2852</b>						
Perchlorate	BXJ2852-BLK1	ND	ug/L	4.0	0.45	
<b>QC Batch ID: BXK0220</b>						
Perchlorate	BXK0220-BLK1	ND	ug/L	4.0	0.45	

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**Reported:** 11/07/2014 12:30  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

## Water Analysis (General Chemistry)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
<b>QC Batch ID: BXJ2192</b>										
Chloride	BXJ2192-BS1	LCS	51.344	50.000	mg/L	103		90 - 110		
Nitrate as N	BXJ2192-BS1	LCS	5.1630	5.0000	mg/L	103		90 - 110		
Sulfate	BXJ2192-BS1	LCS	101.97	100.00	mg/L	102		90 - 110		
<b>QC Batch ID: BXJ2288</b>										
ortho-Phosphate as P	BXJ2288-BS1	LCS	0.20214	0.20000	mg/L	101		90 - 110		
<b>QC Batch ID: BXJ2290</b>										
Nitrite as N	BXJ2290-BS1	LCS	0.50627	0.50000	mg/L	101		90 - 110		
<b>QC Batch ID: BXJ2852</b>										
Perchlorate	BXJ2852-BS1	LCS	9.8515	10.000	ug/L	98.5		85 - 115		
<b>QC Batch ID: BXK0220</b>										
Perchlorate	BXK0220-BS1	LCS	9.8823	10.000	ug/L	98.8		85 - 115		

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Powell, OH 43065

Reported: 11/07/2014 12:30
Project: JPL- GW Monitoring Wells
Project Number: 4th Quarter
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Control Limits Percent Recovery, Lab Quals. Includes QC Batch IDs: BXJ2192, BXJ2288, BXJ2290, BXJ2852, BXK0220.

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**Reported:** 11/07/2014 12:30  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: BXJ2276</b>						
Hexavalent Chromium	BXJ2276-BLK1	ND	mg/L	0.0020	0.00070	
<b>QC Batch ID: BXK0339</b>						
Total Recoverable Chromium	BXK0339-BLK1	ND	ug/L	3.0	0.50	

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**Reported:** 11/07/2014 12:30  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Metals Analysis

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
<b>QC Batch ID: BXJ2276</b>											
Hexavalent Chromium	BXJ2276-BS1	LCS	0.049276	0.050000	mg/L	98.6		85	115		
<b>QC Batch ID: BXK0339</b>											
Total Recoverable Chromium	BXK0339-BS1	LCS	40.169	40.000	ug/L	100		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	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: BXJ2276</b>		Used client sample: Y - Description: MW-17-2, 10/22/2014 13:00								
Hexavalent Chromium	DUP	1425112-11	ND	ND		mg/L			10	
	MS	1425112-11	ND	0.11130	0.10526	mg/L		106		85 - 115
	MSD	1425112-11	ND	0.11471	0.10526	mg/L	3.0	109	10	85 - 115
<b>QC Batch ID: BXK0339</b>		Used client sample: Y - Description: MW-17-2, 10/22/2014 13:00								
Total Recoverable Chromium	DUP	1425112-11	ND	ND		ug/L			20	
	MS	1425112-11	ND	35.179	40.000	ug/L		87.9		70 - 130
	MSD	1425112-11	ND	36.842	40.000	ug/L	4.6	92.1	20	70 - 130

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**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
- A10 PQL's and MDL's were raised due to matrix interference.
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.



Date of Report: 11/13/2014

David Conner

Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

Client Project: 4th Quarter  
BCL Project: JPL- GW Monitoring Wells  
BCL Work Order: 1425248  
Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 10/23/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton  
Client Service Rep

Authorized Signature

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

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Chain of Custody Form

Laboratories, Inc.

Page 1 of 2

\*Required Fields

<b>Report To:</b> Tidewater, Inc. <b>Client:</b> * Tidewater, Inc. (P.O. #1213-000-02) <b>Attn.:</b> * David Conner <b>Street Address:</b> * 3761 Attucks Drive <b>City:</b> * Powell <b>State:</b> * OH <b>Zip:</b> * 43065 <b>Phone:</b> * (614) 792 - 2897 <b>Fax:</b> * (614) 792 - 2897 <b>Email Address:</b> david.conner@tideh2o.net <b>Submission #:</b> 14-25248		<b>Project Description:</b> * JPL-GW Monitoring <b>Project Code:</b> * 4th Quarter <b>Sampler (s):</b> * Blaine Tech		<b>Billing</b> <b>Client:</b> * Tidewater, Inc. (P.O. #1213-000-02) <b>Attn.:</b> * As directed by Ben Headington <b>Address:</b> * 6625 Seltnick Drive, Suite A <b>City:</b> * Elkridge <b>State:</b> * MD <b>Zip:</b> * 21045 Are there any tests with holding times? less than or equal to 48 hours? <input checked="" type="checkbox"/> Yes <input type="checkbox"/> No *Standard Turnaround = 10	
<b>Analysis Requested</b> Hexavalent Cr (7196) <input type="checkbox"/> Nitrite (353.2) <input type="checkbox"/> Orthophosphate (365.1) <input type="checkbox"/> Chloride, Nitrate, Sulfate (300) <input type="checkbox"/> Perchlorate (EPA 314.0) <input type="checkbox"/> Total Cr (200.8) <input type="checkbox"/> VOCs EPA 524.2 <input checked="" type="checkbox"/>		<b>Matrix*</b> TB-4-10/23/14 AQ SB-2-10/23/14 EB-4-10/23/14 MW-22-5 MW-22-4 DOP-2-4/3/14 MW-22-3 MW-22-2 MW-22-1 MW-4-5 MW-4-4		<b>Date</b> <b>Time</b> 10-23-14 0600 0615 0620 0650 0730 0740 0810 0840 0910 1000 1040	
<b>Notes:</b> SHORT HOLDING TIME NO <sub>2</sub> NO <sub>3</sub> OP SS DO O <sub>2</sub> BOD MBAS COT Level IV CHECK BY: [Signature] SUB-OUT		<b>Matrix Types:</b> S = Soil   SL = Sludge   DW = Drinking Water   WW = Wastewater GW = Groundwater   L = Liquid   M = Miscellaneous   O = Other		<b>Turnaround # of working days:</b> * <input type="checkbox"/> 24 Hr Rush <input type="checkbox"/> 48 Hr Rush <input checked="" type="checkbox"/> 3-5 Day Rush <input type="checkbox"/> Normal (10 - Days) <b>Lab TAT Approval:</b>	
<b>Comments:</b> 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)		<b>Cost Center:</b> 1. Requisitioned By: [Signature]     Date: 10-23-14     Time: 1445 2. Requisitioned By: Nicole     Date: 10/23/14     Time: 1805 3. Requisitioned By: [Signature]     Date: 10-23-14     Time: 1750		<b>Global ID:</b> 1. Received By: Nicole     Date: 10/23/14     Time: 1805 2. Received By: [Signature]     Date: 10-23-14     Time: 1805 3. Received By: [Signature]     Date: 10-23-14     Time: 1750	

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



Page 2 of 2

**Report To:** Tidewater, Inc.  
**Client:** David Conner  
**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 #:** 1425248

**Project Description:** JPL-GW Monitoring  
**Project Code:** 4th Quarter  
**Sampler (s):** Blaine Tech

**Analysis Requested**

Sample #	Sample Description	Date	Time	Matrix*	VOCs EPA 524.2	Total Cr (200.8)	Perchlorate (EPA 314.0)	Chloride, Nitrate, Sulfate (300)	Orthophosphate (365.1)	Nitrite (353.2)	Hexavalent Cr (7196)	Notes
-12	MW-4-3	10-23-14	1130	AG	XX	XX	XX	XX				
-13	DUP-3-4014	10-23-14	1050		XX	XX	XX	XX				
-14	MW-4-2	10-23-14	1200		XX	XX	XX	XX				
-15	MW-4-1	10-23-14	1300		XX	XX	XX	XX				
-16												

**Billing**  
**Client:** Tidewater, Inc. (P.O. #1213-000-02)  
**Attn:** As directed by Ben Headington  
**Address:** 6625 Selhick 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

**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

**Cost Center:**  
 1. Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 2. Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_  
 3. Relinquished By: \_\_\_\_\_ Date: \_\_\_\_\_ Time: \_\_\_\_\_

**Global ID:** \_\_\_\_\_

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

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

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 Of 3

Submission #: 14-25248

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  Containers  None  Comments: \_\_\_\_\_

Intact? Yes  No  Intact? Yes  No

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

COC Received: YES  NO

Emissivity: 0.98 Container: PE Thermometer ID: 207 Date/Time: 10-23-14 1750

Temperature: (A) 0.8 °C (C) 0.9 °C Analyst Init: JJ

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL						D		D	D	
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS								E	E	E
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A									
40ml VOA VIAL		ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC
QT EPA 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										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber 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: 10-23-14 1810 [S:\WPDoc\WordPerfect\LAB\_DOCS\FORMS\SAMREC]

A = Actual / C = Corrected



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 2 Of 3

Submission #: 14-25248

SHIPPING INFORMATION: Federal Express, UPS, Hand Delivery, BC Lab Field Service, Other. SHIPPING CONTAINER: Ice Chest, None, Box, Other. FREE LIQUID: YES, NO.

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

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

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

COC Received: YES, NO. Emissivity: 0.98, Container: PE, Thermometer ID: 207, Date/Time: 10/23/14, Analyst Init: JF.

Table with columns for SAMPLE CONTAINERS and SAMPLE NUMBERS (1-10). Rows include various sample types like QT GENERAL MINERAL, PT PE UNPRESERVED, etc.

Comments: Sample Numbering Completed By: [Signature] Date/Time: 10-23-14 18:15



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 3 of 3

Submission #: 14-25248

**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  Containers  None  Comments: \_\_\_\_\_  
 Intact? Yes  No  Intact? Yes  No

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

**COC Received**  
 YES  NO

Emissivity: 0.98 Container: PE Thermometer ID: 207 Date/Time 10-23-14 170  
 Temperature: (A) 2.2 °C (C) 1.8 °C Analyst Init J

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	h	h	h	h	h	h	h	h	h	h
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS	E	E	E	E	E	E	E	E	E	E
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE /NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
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										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber 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: J Date/Time: 10/23/14 1825 (S:\WPDoc\WordPerfect\LAB\_DOCS\FORMS\SAMREC)  
 A = Actual / C = Corrected



Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

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

<b>1425248-01</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> TB-4-10/23/14 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/23/2014 17:50 <b>Sampling Date:</b> 10/23/2014 06:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-4-10/23/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1425248-02</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> SB-2-10/23/14 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/23/2014 17:50 <b>Sampling Date:</b> 10/23/2014 06:15 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): SB-2-10/23/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1425248-03</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> EB-4-10/23/14 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/23/2014 17:50 <b>Sampling Date:</b> 10/23/2014 06:20 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-4-10/23/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

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

<b>1425248-04</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-22-5 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/23/2014 17:50 <b>Sampling Date:</b> 10/23/2014 06:50 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-22-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1425248-05</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-22-4 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/23/2014 17:50 <b>Sampling Date:</b> 10/23/2014 07:30 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-22-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1425248-06</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> Dup-2-4Q14 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/23/2014 17:50 <b>Sampling Date:</b> 10/23/2014 07:40 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): Dup-2-4Q14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

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

<b>1425248-07</b>	<b>COC Number:</b> ---	<b>Receive Date:</b> 10/23/2014 17:50
	<b>Project Number:</b> JPL-GW	<b>Sampling Date:</b> 10/23/2014 08:10
	<b>Sampling Location:</b> ---	<b>Sample Depth:</b> ---
	<b>Sampling Point:</b> MW-22-3	<b>Lab Matrix:</b> Water
	<b>Sampled By:</b> Blaine Tech of BAT	<b>Sample Type:</b> Water
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-22-3
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

<b>1425248-08</b>	<b>COC Number:</b> ---	<b>Receive Date:</b> 10/23/2014 17:50
	<b>Project Number:</b> JPL-GW	<b>Sampling Date:</b> 10/23/2014 08:40
	<b>Sampling Location:</b> ---	<b>Sample Depth:</b> ---
	<b>Sampling Point:</b> MW-22-2	<b>Lab Matrix:</b> Water
	<b>Sampled By:</b> Blaine Tech of BAT	<b>Sample Type:</b> Water
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-22-2
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

<b>1425248-09</b>	<b>COC Number:</b> ---	<b>Receive Date:</b> 10/23/2014 17:50
	<b>Project Number:</b> JPL-GW	<b>Sampling Date:</b> 10/23/2014 09:10
	<b>Sampling Location:</b> ---	<b>Sample Depth:</b> ---
	<b>Sampling Point:</b> MW-22-1	<b>Lab Matrix:</b> Water
	<b>Sampled By:</b> Blaine Tech of BAT	<b>Sample Type:</b> Water
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-22-1
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

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

<b>1425248-10</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-4-5 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/23/2014 17:50 <b>Sampling Date:</b> 10/23/2014 10:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-4-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1425248-11</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-4-4 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/23/2014 17:50 <b>Sampling Date:</b> 10/23/2014 10:40 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-4-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1425248-12</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-4-3 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/23/2014 17:50 <b>Sampling Date:</b> 10/23/2014 11:30 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-4-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

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

<b>1425248-13</b>	<b>COC Number:</b> ---	<b>Receive Date:</b> 10/23/2014 17:50
	<b>Project Number:</b> JPL-GW	<b>Sampling Date:</b> 10/23/2014 10:50
	<b>Sampling Location:</b> ---	<b>Sample Depth:</b> ---
	<b>Sampling Point:</b> Dup-3-4Q14	<b>Lab Matrix:</b> Water
	<b>Sampled By:</b> Blaine Tech of BAT	<b>Sample Type:</b> Water
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): Dup-3-4Q14
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

<b>1425248-14</b>	<b>COC Number:</b> ---	<b>Receive Date:</b> 10/23/2014 17:50
	<b>Project Number:</b> JPL-GW	<b>Sampling Date:</b> 10/23/2014 12:00
	<b>Sampling Location:</b> ---	<b>Sample Depth:</b> ---
	<b>Sampling Point:</b> MW-4-2	<b>Lab Matrix:</b> Water
	<b>Sampled By:</b> Blaine Tech of BAT	<b>Sample Type:</b> Water
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-4-2
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

<b>1425248-15</b>	<b>COC Number:</b> ---	<b>Receive Date:</b> 10/23/2014 17:50
	<b>Project Number:</b> JPL-GW	<b>Sampling Date:</b> 10/23/2014 13:00
	<b>Sampling Location:</b> ---	<b>Sample Depth:</b> ---
	<b>Sampling Point:</b> MW-4-1	<b>Lab Matrix:</b> Water
	<b>Sampled By:</b> Blaine Tech of BAT	<b>Sample Type:</b> Water
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-4-1
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

Reported: 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-01	<b>Client Sample Name:</b> JPL-GW, TB-4-10/23/14, 10/23/2014 6:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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: 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

**BCL Sample ID:** 1425248-01      **Client Sample Name:** JPL-GW, TB-4-10/23/14, 10/23/2014 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	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:** 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-01	<b>Client Sample Name:</b> JPL-GW, TB-4-10/23/14, 10/23/2014 6:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	99.0	%	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	10/24/14	10/24/14 13:09	MGC	MS-V5	1	BXJ2259

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425248-01	<b>Client Sample Name:</b> JPL-GW, TB-4-10/23/14, 10/23/2014 6:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/24/14	10/24/14 13:09	MGC	MS-V5	1	BXJ2259

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

Reported: 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1425248-02 Client Sample Name: JPL-GW, SB-2-10/23/14, 10/23/2014 6:15:00AM, 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	V11	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: 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-02	<b>Client Sample Name:</b> JPL-GW, SB-2-10/23/14, 10/23/2014 6:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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: 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-02	<b>Client Sample Name:</b> JPL-GW, SB-2-10/23/14, 10/23/2014 6:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	100	%	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	10/24/14	10/24/14 15:47	MGC	MS-V5	1	BXJ2259

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425248-02	<b>Client Sample Name:</b> JPL-GW, SB-2-10/23/14, 10/23/2014 6:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/24/14	10/24/14 15:47	MGC	MS-V5	1	BXJ2259

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**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425248-02	<b>Client Sample Name:</b> JPL-GW, SB-2-10/23/14, 10/23/2014 6:15:00AM, Blaine Tech
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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	11/04/14	11/04/14 17:28	BMW	IC6	1	BXK0360

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**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425248-02	<b>Client Sample Name:</b> JPL-GW, SB-2-10/23/14, 10/23/2014 6:15:00AM, Blaine Tech
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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		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	10/23/14	10/23/14 19:12	BMW	KONE-1	1	BXJ2283
2	EPA-200.8	11/10/14	11/10/14 18:53	SRM	PE-EL2	1	BXK0770

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Reported: 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-03	<b>Client Sample Name:</b> JPL-GW, EB-4-10/23/14, 10/23/2014 6:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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: 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-03	<b>Client Sample Name:</b> JPL-GW, EB-4-10/23/14, 10/23/2014 6:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-03	<b>Client Sample Name:</b> JPL-GW, EB-4-10/23/14, 10/23/2014 6:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.9	%	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	10/24/14	10/24/14 16:10	MGC	MS-V5	1	BXJ2259

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

**BCL Sample ID:** 1425248-03      **Client Sample Name:** JPL-GW, EB-4-10/23/14, 10/23/2014 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	10/24/14	10/24/14 16:10	MGC	MS-V5	1	BXJ2259

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Powell, OH 43065

**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425248-03	<b>Client Sample Name:</b> JPL-GW, EB-4-10/23/14, 10/23/2014 6:20:00AM, Blaine Tech
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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	11/04/14	11/04/14 17:42	BMW	IC6	1	BXK0360

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**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425248-03	<b>Client Sample Name:</b> JPL-GW, EB-4-10/23/14, 10/23/2014 6:20:00AM, Blaine Tech
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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		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	10/23/14	10/23/14	19:12	BMW	KONE-1	1	BXJ2283
2	EPA-200.8	11/10/14	11/10/14	19:41	SRM	PE-EL2	1	BXK0770

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Reported: 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-04	<b>Client Sample Name:</b> JPL-GW, MW-22-5, 10/23/2014 6:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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: 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-04	<b>Client Sample Name:</b> JPL-GW, MW-22-5, 10/23/2014 6:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-04	<b>Client Sample Name:</b> JPL-GW, MW-22-5, 10/23/2014 6:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	104	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.1	%	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	10/24/14	10/24/14 16:32	MGC	MS-V5	1	BXJ2259

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Powell, OH 43065

**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

**BCL Sample ID:** 1425248-04      **Client Sample Name:** JPL-GW, MW-22-5, 10/23/2014 6:50:00AM, 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	10/24/14	10/24/14 16:32	MGC	MS-V5	1	BXJ2259

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**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425248-04	<b>Client Sample Name:</b> JPL-GW, MW-22-5, 10/23/2014 6:50:00AM, Blaine Tech
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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	11/04/14	11/04/14 17:56	BMW	IC6	1	BXK0360

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**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425248-04	<b>Client Sample Name:</b> JPL-GW, MW-22-5, 10/23/2014 6:50:00AM, Blaine Tech
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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		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	10/23/14	10/23/14	19:12	BMW	KONE-1	1	BXJ2283
2	EPA-200.8	11/10/14	11/10/14	19:45	SRM	PE-EL2	1	BXK0770

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Reported: 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-05	<b>Client Sample Name:</b> JPL-GW, MW-22-4, 10/23/2014 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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: 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-05	<b>Client Sample Name:</b> JPL-GW, MW-22-4, 10/23/2014 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-05	<b>Client Sample Name:</b> JPL-GW, MW-22-4, 10/23/2014 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	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	10/24/14	10/24/14 16:55	MGC	MS-V5	1	BXJ2259

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**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425248-05	<b>Client Sample Name:</b> JPL-GW, MW-22-4, 10/23/2014 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	10/24/14	10/24/14 16:55	MGC	MS-V5	1	BXJ2259

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**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425248-05	<b>Client Sample Name:</b> JPL-GW, MW-22-4, 10/23/2014 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.1	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	11/04/14	11/04/14 18:10	BMW	IC6	1	BXK0360

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Powell, OH 43065

**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425248-05	<b>Client Sample Name:</b> JPL-GW, MW-22-4, 10/23/2014 7:30:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0019	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	2.3	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	10/23/14	10/23/14 19:12	BMW	KONE-1	1	BXJ2283
2	EPA-200.8	11/10/14	11/10/14 19:54	SRM	PE-EL2	1	BXK0770

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

Reported: 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-06	<b>Client Sample Name:</b> JPL-GW, Dup-2-4Q14, 10/23/2014 7:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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: 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-06	<b>Client Sample Name:</b> JPL-GW, Dup-2-4Q14, 10/23/2014 7:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-06	<b>Client Sample Name:</b> JPL-GW, Dup-2-4Q14, 10/23/2014 7:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	107	%	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	10/24/14	10/24/14 17:18	MGC	MS-V5	1	BXJ2259

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Powell, OH 43065

**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425248-06	<b>Client Sample Name:</b> JPL-GW, Dup-2-4Q14, 10/23/2014 7:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/24/14	10/24/14 17:18	MGC	MS-V5	1	BXJ2259

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425248-06	<b>Client Sample Name:</b> JPL-GW, Dup-2-4Q14, 10/23/2014 7:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.1	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	11/04/14	11/04/14 19:33	BMW	IC6	1	BXK0360

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Powell, OH 43065

**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425248-06	<b>Client Sample Name:</b> JPL-GW, Dup-2-4Q14, 10/23/2014 7:40:00AM, Blaine Tech
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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	2.2	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	10/23/14	10/23/14 19:12	BMW	KONE-1	1	BXJ2283
2	EPA-200.8	11/11/14	11/11/14 21:00	EAR	PE-EL2	1	BXK0892

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Powell, OH 43065

Reported: 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-07	<b>Client Sample Name:</b> JPL-GW, MW-22-3, 10/23/2014 8:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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: 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-07	<b>Client Sample Name:</b> JPL-GW, MW-22-3, 10/23/2014 8:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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: 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-07	<b>Client Sample Name:</b> JPL-GW, MW-22-3, 10/23/2014 8:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	110	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.5	%	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	10/24/14	10/24/14 17:41	MGC	MS-V5	1	BXJ2259

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425248-07	<b>Client Sample Name:</b> JPL-GW, MW-22-3, 10/23/2014 8:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/24/14	10/24/14 17:41	MGC	MS-V5	1	BXJ2259

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Powell, OH 43065

**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425248-07	<b>Client Sample Name:</b> JPL-GW, MW-22-3, 10/23/2014 8:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.2	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	11/04/14	11/04/14 20:01	BMW	IC6	1	BXK0360

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**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425248-07	<b>Client Sample Name:</b> JPL-GW, MW-22-3, 10/23/2014 8:10:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0019	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	2.5	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	10/23/14	10/23/14 19:41	BMW	KONE-1	1	BXJ2283
2	EPA-200.8	11/11/14	11/11/14 21:03	EAR	PE-EL2	1	BXK0892

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Reported: 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-08	<b>Client Sample Name:</b> JPL-GW, MW-22-2, 10/23/2014 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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
<b>Chloroform</b>	<b>0.15</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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: 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-08	<b>Client Sample Name:</b> JPL-GW, MW-22-2, 10/23/2014 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Tetrachloroethene</b>	<b>0.13</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.13</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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: 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-08	<b>Client Sample Name:</b> JPL-GW, MW-22-2, 10/23/2014 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	108	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/24/14	10/24/14 18:04	MGC	MS-V5	1	BXJ2259

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425248-08	<b>Client Sample Name:</b> JPL-GW, MW-22-2, 10/23/2014 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/24/14	10/24/14 18:04	MGC	MS-V5	1	BXJ2259

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**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425248-08	<b>Client Sample Name:</b> JPL-GW, MW-22-2, 10/23/2014 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	3.2	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	11/04/14	11/04/14 20:28	BMW	IC6	1	BXK0360

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Powell, OH 43065

**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425248-08	<b>Client Sample Name:</b> JPL-GW, MW-22-2, 10/23/2014 8:40:00AM, Blaine Tech
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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	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	10/23/14	10/23/14 19:19	BMW	KONE-1	1	BXJ2283
2	EPA-200.8	11/11/14	11/11/14 21:07	EAR	PE-EL2	1	BXK0892

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Reported: 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

**BCL Sample ID:** 1425248-09      **Client Sample Name:** JPL-GW, MW-22-1, 10/23/2014 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	V11	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
<b>Chloroform</b>	<b>0.55</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	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
<b>1,1-Dichloroethane</b>	<b>0.13</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.11</b>	<b>EPA-524.2</b>	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: 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-09	<b>Client Sample Name:</b> JPL-GW, MW-22-1, 10/23/2014 9:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Tetrachloroethene</b>	<b>0.55</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.13</b>	<b>EPA-524.2</b>	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
<b>Trichloroethene</b>	<b>2.0</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	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: 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-09	<b>Client Sample Name:</b> JPL-GW, MW-22-1, 10/23/2014 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	V11	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	V11	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)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.0	%	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	10/24/14	10/25/14 00:07	MGC	MS-V5	1	BXJ2259

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Powell, OH 43065

**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425248-09	<b>Client Sample Name:</b> JPL-GW, MW-22-1, 10/23/2014 9:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/24/14	10/25/14 00:07	MGC	MS-V5	1	BXJ2259

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Powell, OH 43065

**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425248-09	<b>Client Sample Name:</b> JPL-GW, MW-22-1, 10/23/2014 9:10:00AM, Blaine Tech
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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	11/04/14	11/04/14 20:56	BMW	IC6	1	BXK0360

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**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425248-09	<b>Client Sample Name:</b> JPL-GW, MW-22-1, 10/23/2014 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
<b>Total Recoverable Chromium</b>	<b>1.3</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	10/23/14	10/23/14 19:19	BMW	KONE-1	1	BXJ2283
2	EPA-200.8	11/11/14	11/11/14 21:10	EAR	PE-EL2	1	BXK0892

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Reported: 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-10	<b>Client Sample Name:</b> JPL-GW, MW-4-5, 10/23/2014 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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: 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-10	<b>Client Sample Name:</b> JPL-GW, MW-4-5, 10/23/2014 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Styrene</b>	<b>0.14</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.068</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-10	<b>Client Sample Name:</b> JPL-GW, MW-4-5, 10/23/2014 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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	V11	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)	108	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	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	10/24/14	10/25/14 00:29	MGC	MS-V5	1	BXJ2259

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Powell, OH 43065

**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425248-10	<b>Client Sample Name:</b> JPL-GW, MW-4-5, 10/23/2014 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/24/14	10/25/14 00:29	MGC	MS-V5	1	BXJ2259

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425248-10	<b>Client Sample Name:</b> JPL-GW, MW-4-5, 10/23/2014 10:00:00AM, Blaine Tech
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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	11/04/14	11/04/14 21:24	BMW	IC6	1	BXK0360

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**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425248-10	<b>Client Sample Name:</b> JPL-GW, MW-4-5, 10/23/2014 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00092	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		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	10/23/14	10/23/14 19:19	BMW	KONE-1	1	BXJ2283
2	EPA-200.8	11/11/14	11/11/14 21:14	EAR	PE-EL2	1	BXK0892

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Reported: 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-11	<b>Client Sample Name:</b> JPL-GW, MW-4-4, 10/23/2014 10:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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: 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-11	<b>Client Sample Name:</b> JPL-GW, MW-4-4, 10/23/2014 10:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Styrene</b>	<b>0.070</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.068</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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: 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-11	<b>Client Sample Name:</b> JPL-GW, MW-4-4, 10/23/2014 10:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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	V11	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)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/24/14	10/25/14 00:52	MGC	MS-V5	1	BXJ2259

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425248-11	<b>Client Sample Name:</b> JPL-GW, MW-4-4, 10/23/2014 10:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/24/14	10/25/14 00:52	MGC	MS-V5	1	BXJ2259

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**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425248-11	<b>Client Sample Name:</b> JPL-GW, MW-4-4, 10/23/2014 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	11/04/14	11/05/14 05:28	OLH	IC6	1	BXK0360

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**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425248-11	<b>Client Sample Name:</b> JPL-GW, MW-4-4, 10/23/2014 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
<b>Total Recoverable Chromium</b>	<b>0.87</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	10/23/14	10/23/14 19:25	BMW	KONE-1	1	BXJ2284
2	EPA-200.8	11/11/14	11/11/14 21:17	EAR	PE-EL2	1	BXK0892

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Reported: 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-12	<b>Client Sample Name:</b> JPL-GW, MW-4-3, 10/23/2014 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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: 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-12	<b>Client Sample Name:</b> JPL-GW, MW-4-3, 10/23/2014 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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: 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-12	<b>Client Sample Name:</b> JPL-GW, MW-4-3, 10/23/2014 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	V11	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	V11	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)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	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	10/24/14	10/25/14 01:15	MGC	MS-V5	1	BXJ2259

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Powell, OH 43065

**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425248-12	<b>Client Sample Name:</b> JPL-GW, MW-4-3, 10/23/2014 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	10/24/14	10/25/14 01:15	MGC	MS-V5	1	BXJ2259

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**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425248-12	<b>Client Sample Name:</b> JPL-GW, MW-4-3, 10/23/2014 11:30:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.2	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	11/04/14	11/05/14 06:37	OLH	IC6	1	BXK0361

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**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425248-12	<b>Client Sample Name:</b> JPL-GW, MW-4-3, 10/23/2014 11:30:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0040	0.0014	EPA-7196	ND	A10	1
<b>Total Recoverable Chromium</b>	<b>0.95</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	10/23/14	10/23/14 20:07	BMW	KONE-1	2	BXJ2284
2	EPA-200.8	11/11/14	11/11/14 21:20	EAR	PE-EL2	1	BXK0892

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Reported: 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-13	<b>Client Sample Name:</b> JPL-GW, Dup-3-4Q14, 10/23/2014 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	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	V11	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: 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-13	<b>Client Sample Name:</b> JPL-GW, Dup-3-4Q14, 10/23/2014 10:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-13	<b>Client Sample Name:</b> JPL-GW, Dup-3-4Q14, 10/23/2014 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	V11	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	V11	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)	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	10/24/14	10/25/14 01:37	MGC	MS-V5	1	BXJ2259

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Powell, OH 43065

**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425248-13	<b>Client Sample Name:</b> JPL-GW, Dup-3-4Q14, 10/23/2014 10:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/24/14	10/25/14 01:37	MGC	MS-V5	1	BXJ2259

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**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425248-13	<b>Client Sample Name:</b> JPL-GW, Dup-3-4Q14, 10/23/2014 10:50:00AM, Blaine Tech
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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	11/04/14	11/05/14 06:51	OLH	IC6	1	BXK0361

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**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425248-13	<b>Client Sample Name:</b> JPL-GW, Dup-3-4Q14, 10/23/2014 10:50:00AM, 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
<b>Total Recoverable Chromium</b>	<b>0.80</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	10/23/14	10/23/14 19:25	BMW	KONE-1	1	BXJ2284
2	EPA-200.8	11/11/14	11/11/14 21:24	EAR	PE-EL2	1	BXK0892

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Powell, OH 43065

Reported: 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-14	<b>Client Sample Name:</b> JPL-GW, MW-4-2, 10/23/2014 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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
<b>Bromodichloromethane</b>	<b>0.46</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	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	V11	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
<b>Chloroform</b>	<b>0.91</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	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
<b>1,1-Dichloroethane</b>	<b>0.21</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.11</b>	<b>EPA-524.2</b>	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: 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-14	<b>Client Sample Name:</b> JPL-GW, MW-4-2, 10/23/2014 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Tetrachloroethene</b>	<b>0.71</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.13</b>	<b>EPA-524.2</b>	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
<b>Trichloroethene</b>	<b>1.1</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	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:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-14	<b>Client Sample Name:</b> JPL-GW, MW-4-2, 10/23/2014 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	99.9	%	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	10/24/14	10/24/14 18:26	MGC	MS-V5	1	BXJ2259

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Powell, OH 43065

**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425248-14	<b>Client Sample Name:</b> JPL-GW, MW-4-2, 10/23/2014 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/24/14	10/24/14 18:26	MGC	MS-V5	1	BXJ2259

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Powell, OH 43065

**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425248-14	<b>Client Sample Name:</b> JPL-GW, MW-4-2, 10/23/2014 12:00:00PM, Blaine Tech
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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	11/04/14	11/05/14 07:05	OLH	IC6	1	BXK0361

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Powell, OH 43065

**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425248-14	<b>Client Sample Name:</b> JPL-GW, MW-4-2, 10/23/2014 12:00:00PM, 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
<b>Total Recoverable Chromium</b>	<b>3.9</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	10/23/14	10/23/14 19:19	BMW	KONE-1	1	BXJ2284
2	EPA-200.8	11/11/14	11/11/14 20:32	EAR	PE-EL2	1	BXK0892

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Reported: 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-15	<b>Client Sample Name:</b> JPL-GW, MW-4-1, 10/23/2014 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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: 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-15	<b>Client Sample Name:</b> JPL-GW, MW-4-1, 10/23/2014 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425248-15	<b>Client Sample Name:</b> JPL-GW, MW-4-1, 10/23/2014 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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	V11	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)	101	%	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	10/24/14	10/25/14 02:00	MGC	MS-V5	1	BXJ2259

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425248-15	<b>Client Sample Name:</b> JPL-GW, MW-4-1, 10/23/2014 1:00:00PM, 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	10/24/14	10/25/14 02:00	MGC	MS-V5	1	BXJ2259

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Powell, OH 43065

**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425248-15	<b>Client Sample Name:</b> JPL-GW, MW-4-1, 10/23/2014 1:00:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.2	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	11/04/14	11/05/14 08:00	OLH	IC6	1	BXK0361

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**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425248-15	<b>Client Sample Name:</b> JPL-GW, MW-4-1, 10/23/2014 1:00:00PM, 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		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	10/23/14	10/23/14 19:25	BMW	KONE-1	1	BXJ2284
2	EPA-200.8	11/11/14	11/11/14 21:27	EAR	PE-EL2	1	BXK0892

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**Reported:** 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
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
<b>QC Batch ID: BXJ2259</b>						
Benzene	BXJ2259-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXJ2259-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXJ2259-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXJ2259-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXJ2259-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXJ2259-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXJ2259-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXJ2259-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXJ2259-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXJ2259-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXJ2259-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXJ2259-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXJ2259-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXJ2259-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXJ2259-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXJ2259-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BXJ2259-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXJ2259-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXJ2259-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXJ2259-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXJ2259-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXJ2259-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXJ2259-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXJ2259-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXJ2259-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXJ2259-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXJ2259-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXJ2259-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXJ2259-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXJ2259-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXJ2259-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXJ2259-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXJ2259-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXJ2259-BLK1	ND	ug/L	0.50	0.14	

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Powell, OH 43065

Reported: 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
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
<b>QC Batch ID: BXJ2259</b>						
trans-1,3-Dichloropropene	BXJ2259-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXJ2259-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXJ2259-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXJ2259-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXJ2259-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXJ2259-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXJ2259-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXJ2259-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXJ2259-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXJ2259-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXJ2259-BLK1	ND	ug/L	0.50	0.18	
1,1,1,2,2-Tetrachloroethane	BXJ2259-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethane	BXJ2259-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXJ2259-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXJ2259-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXJ2259-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BXJ2259-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXJ2259-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXJ2259-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXJ2259-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXJ2259-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXJ2259-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXJ2259-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXJ2259-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXJ2259-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXJ2259-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXJ2259-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXJ2259-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXJ2259-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXJ2259-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXJ2259-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXJ2259-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXJ2259-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXJ2259-BLK1	ND	ug/L	4.0	0.97	

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
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
<b>QC Batch ID: BXJ2259</b>						
Ethyl t-butyl ether	BXJ2259-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXJ2259-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXJ2259-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXJ2259-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXJ2259-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXJ2259-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXJ2259-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXJ2259-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXJ2259-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXJ2259-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXJ2259-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXJ2259-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXJ2259-BLK1	ND	ug/L	0.50	0.082	
<b>1,2-Dichloroethane-d4 (Surrogate)</b>	<b>BXJ2259-BLK1</b>	<b>105</b>	<b>%</b>	<b>75 - 125 (LCL - UCL)</b>		
<b>Toluene-d8 (Surrogate)</b>	<b>BXJ2259-BLK1</b>	<b>103</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		
<b>4-Bromofluorobenzene (Surrogate)</b>	<b>BXJ2259-BLK1</b>	<b>94.6</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		

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**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: BXJ2259</b>										
Benzene	BXJ2259-BS1	LCS	26.740	25.000	ug/L	107		70 - 130		
Bromodichloromethane	BXJ2259-BS1	LCS	27.510	25.000	ug/L	110		70 - 130		
Chlorobenzene	BXJ2259-BS1	LCS	27.520	25.000	ug/L	110		70 - 130		
Chloroethane	BXJ2259-BS1	LCS	29.530	25.000	ug/L	118		70 - 130		
1,4-Dichlorobenzene	BXJ2259-BS1	LCS	29.070	25.000	ug/L	116		70 - 130		
1,1-Dichloroethane	BXJ2259-BS1	LCS	26.120	25.000	ug/L	104		70 - 130		
1,1-Dichloroethene	BXJ2259-BS1	LCS	26.410	25.000	ug/L	106		70 - 130		
Toluene	BXJ2259-BS1	LCS	27.600	25.000	ug/L	110		70 - 130		
Trichloroethene	BXJ2259-BS1	LCS	26.770	25.000	ug/L	107		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXJ2259-BS1	LCS	10.030	10.000	ug/L	100		75 - 125		
Toluene-d8 (Surrogate)	BXJ2259-BS1	LCS	10.160	10.000	ug/L	102		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXJ2259-BS1	LCS	10.050	10.000	ug/L	100		80 - 120		

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Reported: 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
<b>QC Batch ID: BXJ2259</b>		Used client sample: Y - Description: MW-4-2, 10/23/2014 12:00								
Benzene	MS	1425248-14	ND	24.920	25.000	ug/L		99.7		70 - 130
	MSD	1425248-14	ND	26.680	25.000	ug/L	6.8	107	20	70 - 130
Bromodichloromethane	MS	1425248-14	0.46000	26.570	25.000	ug/L		104		70 - 130
	MSD	1425248-14	0.46000	26.480	25.000	ug/L	0.3	104	20	70 - 130
Chlorobenzene	MS	1425248-14	ND	25.750	25.000	ug/L		103		70 - 130
	MSD	1425248-14	ND	26.510	25.000	ug/L	2.9	106	20	70 - 130
Chloroethane	MS	1425248-14	ND	27.380	25.000	ug/L		110		70 - 130
	MSD	1425248-14	ND	29.340	25.000	ug/L	6.9	117	20	70 - 130
1,4-Dichlorobenzene	MS	1425248-14	ND	26.870	25.000	ug/L		107		70 - 130
	MSD	1425248-14	ND	28.600	25.000	ug/L	6.2	114	20	70 - 130
1,1-Dichloroethane	MS	1425248-14	0.21000	24.620	25.000	ug/L		97.6		70 - 130
	MSD	1425248-14	0.21000	26.910	25.000	ug/L	8.9	107	20	70 - 130
1,1-Dichloroethene	MS	1425248-14	ND	24.270	25.000	ug/L		97.1		70 - 130
	MSD	1425248-14	ND	26.670	25.000	ug/L	9.4	107	20	70 - 130
Toluene	MS	1425248-14	ND	26.260	25.000	ug/L		105		70 - 130
	MSD	1425248-14	ND	26.030	25.000	ug/L	0.9	104	20	70 - 130
Trichloroethene	MS	1425248-14	1.1200	26.270	25.000	ug/L		101		70 - 130
	MSD	1425248-14	1.1200	26.360	25.000	ug/L	0.3	101	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1425248-14	ND	9.9500	10.000	ug/L		99.5		75 - 125
	MSD	1425248-14	ND	10.660	10.000	ug/L	6.9	107		75 - 125
Toluene-d8 (Surrogate)	MS	1425248-14	ND	10.150	10.000	ug/L		102		80 - 120
	MSD	1425248-14	ND	10.010	10.000	ug/L	1.4	100		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1425248-14	ND	10.230	10.000	ug/L		102		80 - 120
	MSD	1425248-14	ND	10.120	10.000	ug/L	1.1	101		80 - 120

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**Reported:** 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
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
<b>QC Batch ID: BXJ2259</b>						
Chloroacetonitrile	BXJ2259-BLK1	0	ug/L			
1-Chlorobutane	BXJ2259-BLK1	0	ug/L			
1,1-Dichloropropanone	BXJ2259-BLK1	0	ug/L			
Methyl acrylate	BXJ2259-BLK1	0	ug/L			
Nitrobenzene	BXJ2259-BLK1	0	ug/L			
2-Nitropropane	BXJ2259-BLK1	0	ug/L			

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Powell, OH 43065

**Reported:** 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
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
<b>QC Batch ID: BXK0360</b>						
Perchlorate	BXK0360-BLK1	ND	ug/L	4.0	0.45	
<b>QC Batch ID: BXK0361</b>						
Perchlorate	BXK0361-BLK1	ND	ug/L	4.0	0.45	

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Powell, OH 43065

**Reported:** 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Water Analysis (General Chemistry)

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: BXK0360</b>										
Perchlorate	BXK0360-BS1	LCS	9.5795	10.000	ug/L	95.8		85	115	
<b>QC Batch ID: BXK0361</b>										
Perchlorate	BXK0361-BS1	LCS	9.8600	10.000	ug/L	98.6		85	115	

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
<b>QC Batch ID: BXK0360</b>		Used client sample: Y - Description: MW-22-4, 10/23/2014 07:30								
Perchlorate	DUP	1425248-05	1.1483	1.4180		ug/L	21.0		15	J,A02
	MS	1425248-05	1.1483	8.7365	10.101	ug/L		75.1	80 - 120	Q03
	MSD	1425248-05	1.1483	8.6763	10.101	ug/L	0.7	74.5	15 80 - 120	Q03
<b>QC Batch ID: BXK0361</b>		Used client sample: Y - Description: MW-4-2, 10/23/2014 12:00								
Perchlorate	DUP	1425248-14	18.003	18.320		ug/L	1.7		15	
	MS	1425248-14	18.003	26.884	10.101	ug/L		87.9	80 - 120	
	MSD	1425248-14	18.003	26.497	10.101	ug/L	1.5	84.1	15 80 - 120	

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: BXJ2283</b>						
Hexavalent Chromium	BXJ2283-BLK1	ND	mg/L	0.0020	0.00070	
<b>QC Batch ID: BXJ2284</b>						
Hexavalent Chromium	BXJ2284-BLK1	ND	mg/L	0.0020	0.00070	
<b>QC Batch ID: BXK0770</b>						
Total Recoverable Chromium	BXK0770-BLK1	ND	ug/L	3.0	0.50	
<b>QC Batch ID: BXK0892</b>						
Total Recoverable Chromium	BXK0892-BLK1	ND	ug/L	3.0	0.50	

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: BXJ2283</b>										
Hexavalent Chromium	BXJ2283-BS1	LCS	0.048597	0.050000	mg/L	97.2		85	115	
<b>QC Batch ID: BXJ2284</b>										
Hexavalent Chromium	BXJ2284-BS1	LCS	0.050121	0.050000	mg/L	100		85	115	
<b>QC Batch ID: BXK0770</b>										
Total Recoverable Chromium	BXK0770-BS1	LCS	41.320	40.000	ug/L	103		85	115	
<b>QC Batch ID: BXK0892</b>										
Total Recoverable Chromium	BXK0892-BS1	LCS	41.640	40.000	ug/L	104		85	115	

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

Reported: 11/13/2014 10:07  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Metals Analysis

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
<b>QC Batch ID: BXJ2283</b>		Used client sample: Y - Description: SB-2-10/23/14, 10/23/2014 06:15								
Hexavalent Chromium	DUP	1425248-02	ND	ND		mg/L			10	
	MS	1425248-02	ND	0.054151	0.052632	mg/L		103		85 - 115
	MSD	1425248-02	ND	0.054019	0.052632	mg/L	0.2	103	10	85 - 115
<b>QC Batch ID: BXJ2284</b>		Used client sample: Y - Description: MW-4-2, 10/23/2014 12:00								
Hexavalent Chromium	DUP	1425248-14	ND	ND		mg/L			10	
	MS	1425248-14	ND	0.052955	0.052632	mg/L		101		85 - 115
	MSD	1425248-14	ND	0.052437	0.052632	mg/L	1.0	99.6	10	85 - 115
<b>QC Batch ID: BXK0770</b>		Used client sample: Y - Description: SB-2-10/23/14, 10/23/2014 06:15								
Total Recoverable Chromium	DUP	1425248-02	ND	3.9720		ug/L			20	
	MS	1425248-02	ND	39.814	40.000	ug/L		99.5		70 - 130
	MSD	1425248-02	ND	39.602	40.000	ug/L	0.5	99.0	20	70 - 130
<b>QC Batch ID: BXK0892</b>		Used client sample: Y - Description: MW-4-2, 10/23/2014 12:00								
Total Recoverable Chromium	DUP	1425248-14	3.9360	4.0230		ug/L	2.2		20	
	MS	1425248-14	3.9360	40.545	40.000	ug/L		91.5		70 - 130
	MSD	1425248-14	3.9360	40.588	40.000	ug/L	0.1	91.6	20	70 - 130

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/13/2014 10:07  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**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.
- A10 PQL's and MDL's were raised due to matrix interference.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.



Date of Report: 11/14/2014

David Conner

Tidewater Inc.

3761 Attucks Drive  
Powell, OH 43065

Client Project: 4th Quarter  
BCL Project: JPL- GW Monitoring Wells  
BCL Work Order: 1425355  
Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 10/24/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton  
Client Service Rep

Authorized Signature

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

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Chain of Custody Form

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**Report To:** Tidewater, Inc.  
**Client:** Tidewater, Inc. (P.O. #1213-000-02)  
**Attn:** David Conner  
**Street Address:** 3761 Atluks Drive  
**City:** Powell State: OH Zip: 43065  
**Phone#:** (614) 792-2897 **Fax#:** (614) 792-2897  
**Email Address:** david.conner@tideh2o.net  
**Submission #:** 14-25355

**Project Description:** JPL-GW Monitoring  
**Project Code:** 4th Quarter  
**Sampler (s):** Blaine Tech

**Analysis Requested:**  
 VOCs EPA 524.2  
 Total Cr (200.8)  
 Perchlorate (EPA 314.0)  
 Chloride, Nitrate, Sulfate (300)  
 Orthophosphate (365.1)  
 Nitrite (353.2)  
 Hexavalent Cr (7196)

**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: 21035  
 Are there any tests with holding times? less than or equal to 48 hours?  
 Yes  NO  
 \*Standard Turnaround = 10

Sample #	Sample Description	Date	Time	Matrix*
1	IB-5-10/24/14	10-24-14	0645	AG
2	EB-5-10/24/14		0700	
3	MW-23-5		0805	
4	MW-23-4		0835	
5	MW-23-3		0910	
6	MW-23-2		0935	
7	MW-23-1		1040	
8	MW-25-5		1120	
9	MW-25-4		1200	
10	MW-25-3		1300	
11	MW-25-2			

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

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

**Lab TAT Approval:** \_\_\_\_\_ \*Additional Charges May Apply

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

**Cost Center:**  
 1. Relinquished By: [Signature] Date: 10-24-14 Time: 1530  
 2. Relinquished By: [Signature] Date: 10-24-14 Time: 1550  
 3. Relinquished By: [Signature] Date: 10-24-14 Time: 1850

**Global ID:**  
 1. Received By: [Signature] Date: 10-24-14 Time: 1530  
 2. Received By: [Signature] Date: 10-24-14 Time: 1550  
 3. Received By: [Signature] Date: 10-24-14 Time: 1850

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

Laboratories, Inc.

Page 2 of 2

**\*Required Fields**

Report To: Tidewater, Inc.  
 Client: David Conner  
 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 #: 14-25355

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

Analysis Requested:  
 VOCs EPA 524.2  
 Total Cr (200.8)  
 Perchlorate (EPA 314.0)  
 Chloride, Nitrate, Sulfate (300)  
 Orthophosphate (365.1)  
 Nitrite (353.2)  
 Hexavalent Cr (7196)

Sample #	Sample Description	Date	Time	Matrix*
-12	MW-25-1	10-24-14	1330	AG
-13	DUR-4-4614	10-24-14	1340	↓

Notes:  
 SHORT HOLDING TIME  
 DO CL, BOD MBAS COT  
 CHK BY: DISTRIBUTION  
 MWL MARKING  
 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  Normal (10 - Days)

Lab TAT Approval: \_\_\_\_\_

Global ID: \_\_\_\_\_

Cost Center:  
 1. Relinquished By: [Signature] Date: 10-24-14 Time: 1320  
 2. Relinquished By: [Signature] Date: 10-24-14 Time: 1550  
 3. Relinquished By: [Signature] Date: 10-29-14 Time: 1850

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

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



BC LABORATORIES INC. *MW 10/24/14* COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 Of 4  
 Submission #: 14-25355 14-25355 *MW 10/24/14* 24

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  Containers  None  Comments:

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

COC Received YES  NO  Emissivity: 0.98 Container: PE Thermometer ID: 207 Date/Time: 10/24/14 1850  
 Temperature: (A) 1.1 °C (C) 0.7 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE /NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	<u>A</u>	<u>ABC</u>	<u>ABC</u>	<u>ABC</u>	<u>ABC</u>	<u>ABL</u>	<u>ABC</u>	<u>ABC</u>	<u>ABC</u>	<u>ABC</u>
40ml VOA VIAL										
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										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber 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: \_\_\_\_\_ Date/Time: 10/24/14 @ 19:10 (S:\WPDoc\WordPerfect\LAB\_DOCS\FORMS\SAMREC)  
 Sample Numbering Completed By: AMA  
 A = Actual / C = Corrected



BC LABORATORIES INC. *MW 10/29/14* COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 Of 4  
 Submission #: 1425355 14-25355 *MW 10/29/14 2 of 4*

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  Containers   
 Intact? Yes  No  Intact? Yes  No  None  Comments: \_\_\_\_\_

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

COC Received  
 YES  NO

Emissivity: 0.95 Container: PE Thermometer ID: 207 Date/Time 10/29/14 1850  
 Temperature: (A) 11 °C (C) 0-7 °C Analyst Init M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL										
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE /NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	ABC	ABC	ABC							
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										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber 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: \_\_\_\_\_ Date/Time: 10/29/14 @ 1910 [S:\WPDoc\WordPerfect\LAB\_DOCS\FORMS\AMREC]  
 Sample Numbering Completed By: MM  
 A - Actual / C = Corrected



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 5 Of 7

Submission #: 14-25355 Nov 10 12 41 PM 3 of 4

**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  Containers  None  Comments: \_\_\_\_\_  
 Intact? Yes  No  Intact? Yes  No

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

COC Received  YES  NO  
 Emissivity: 0.98 Container: PE Thermometer ID: 207 Date/Time 10/24/14 1850  
 Temperature: (A) 0.7 °C (C) 0.3 °C Analyst Init M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL		D	D	D	D	D	D	D	D	D
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS		E	E	E	E	E	E	E	E	E
PT INORGANIC CHEMICAL METALS										
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
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										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber 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: \_\_\_\_\_ Date/Time: 10/24/14 @ 1910 [S:\WPDoc\WordPerfect\LAB\_DOCS\FORMS\SAMREC]  
 Sample Numbering Completed By: AWL  
 A = Actual / C = Corrected



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 7 Of 8  
 Submission #: 14-25355 Nov 12/24/14 4 of 4

**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  Containers  None  Comments: \_\_\_\_\_  
 Intact? Yes  No  Intact? Yes  No

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

COC Received  YES  NO  
 Emissivity: 0.98 Container: PE Thermometer ID: 207 Date/Time: 10/29/14 1850  
 Temperature: (A) 0.7 °C (C) 0.3 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	D	D	D							
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS	E	E	E							
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL										
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										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber 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: MW Date/Time: 10/29/14 @ 1910 (S:\WPDoc\WordPerfect\LAB\_DOCS\FORMS\SAMREC)  
 A = Actual / C = Corrected



Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

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

<b>1425355-01</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> TB-5-10/24/14 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/24/2014 18:50 <b>Sampling Date:</b> 10/24/2014 06:45 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Trip Blank Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-5-10/24/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1425355-02</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> EB-5-10/24/14 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/24/2014 18:50 <b>Sampling Date:</b> 10/24/2014 07:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-5-10/24/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1425355-03</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-23-5 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/24/2014 18:50 <b>Sampling Date:</b> 10/24/2014 07:25 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-23-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

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

<b>1425355-04</b>	<b>COC Number:</b> ---	<b>Receive Date:</b> 10/24/2014 18:50
	<b>Project Number:</b> JPL-GW	<b>Sampling Date:</b> 10/24/2014 08:05
	<b>Sampling Location:</b> ---	<b>Sample Depth:</b> ---
	<b>Sampling Point:</b> MW-23-4	<b>Lab Matrix:</b> Water
	<b>Sampled By:</b> Blaine Tech of BAT	<b>Sample Type:</b> Water
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-23-4
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

<b>1425355-05</b>	<b>COC Number:</b> ---	<b>Receive Date:</b> 10/24/2014 18:50
	<b>Project Number:</b> JPL-GW	<b>Sampling Date:</b> 10/24/2014 08:35
	<b>Sampling Location:</b> ---	<b>Sample Depth:</b> ---
	<b>Sampling Point:</b> MW-23-3	<b>Lab Matrix:</b> Water
	<b>Sampled By:</b> Blaine Tech of BAT	<b>Sample Type:</b> Water
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-23-3
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

<b>1425355-06</b>	<b>COC Number:</b> ---	<b>Receive Date:</b> 10/24/2014 18:50
	<b>Project Number:</b> JPL-GW	<b>Sampling Date:</b> 10/24/2014 09:10
	<b>Sampling Location:</b> ---	<b>Sample Depth:</b> ---
	<b>Sampling Point:</b> MW-23-2	<b>Lab Matrix:</b> Water
	<b>Sampled By:</b> Blaine Tech of BAT	<b>Sample Type:</b> 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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**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

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

<b>1425355-07</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-23-1 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/24/2014 18:50 <b>Sampling Date:</b> 10/24/2014 09:35 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-23-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1425355-08</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-25-5 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/24/2014 18:50 <b>Sampling Date:</b> 10/24/2014 10:40 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-25-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1425355-09</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-25-4 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/24/2014 18:50 <b>Sampling Date:</b> 10/24/2014 11:20 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-25-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Powell, OH 43065

**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>1425355-10</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-25-3 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/24/2014 18:50 <b>Sampling Date:</b> 10/24/2014 12:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-25-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1425355-11</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-25-2 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/24/2014 18:50 <b>Sampling Date:</b> 10/24/2014 13:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-25-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1425355-12</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-25-1 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/24/2014 18:50 <b>Sampling Date:</b> 10/24/2014 13:30 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-25-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>1425355-13</b>	<b>COC Number:</b> ---	<b>Receive Date:</b> 10/24/2014 18:50
	<b>Project Number:</b> JPL-GW	<b>Sampling Date:</b> 10/24/2014 13:40
	<b>Sampling Location:</b> ---	<b>Sample Depth:</b> ---
	<b>Sampling Point:</b> DUP-4-4Q14	<b>Lab Matrix:</b> Water
	<b>Sampled By:</b> Blaine Tech of BAT	<b>Sample Type:</b> Water
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): DUP-4-4Q14
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

Reported: 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425355-01	<b>Client Sample Name:</b> JPL-GW, TB-5-10/24/14, 10/24/2014 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	V11	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: 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425355-01	<b>Client Sample Name:</b> JPL-GW, TB-5-10/24/14, 10/24/2014 6:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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:** 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425355-01	<b>Client Sample Name:</b> JPL-GW, TB-5-10/24/14, 10/24/2014 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	V11	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)	98.4	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	85.3	%	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	10/27/14	10/27/14 12:28	MGC	MS-V5	1	BXJ2413

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Powell, OH 43065

**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425355-01	<b>Client Sample Name:</b> JPL-GW, TB-5-10/24/14, 10/24/2014 6:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/27/14	10/27/14 12:28	MGC	MS-V5	1	BXJ2413

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

Reported: 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425355-02	<b>Client Sample Name:</b> JPL-GW, EB-5-10/24/14, 10/24/2014 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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: 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

**BCL Sample ID:** 1425355-02      **Client Sample Name:** JPL-GW, EB-5-10/24/14, 10/24/2014 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	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:** 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425355-02	<b>Client Sample Name:</b> JPL-GW, EB-5-10/24/14, 10/24/2014 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	96.9	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	82.6	%	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	10/27/14	10/27/14 12:05	MGC	MS-V5	1	BXJ2413

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425355-02	<b>Client Sample Name:</b> JPL-GW, EB-5-10/24/14, 10/24/2014 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/27/14	10/27/14 12:05	MGC	MS-V5	1	BXJ2413

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425355-02	<b>Client Sample Name:</b> JPL-GW, EB-5-10/24/14, 10/24/2014 7:00:00AM, Blaine Tech
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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	11/12/14	11/12/14 18:47	BMW	IC6	1	BXK1130

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Powell, OH 43065

**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425355-02	<b>Client Sample Name:</b> JPL-GW, EB-5-10/24/14, 10/24/2014 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	10/24/14	10/24/14 23:29	TDC	KONE-1	1	BXJ2372
2	EPA-200.8	11/12/14	11/12/14 18:56	EAR	PE-EL2	1	BXK1001

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Powell, OH 43065

Reported: 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425355-03	<b>Client Sample Name:</b> JPL-GW, MW-23-5, 10/24/2014 7:25:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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: 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425355-03	<b>Client Sample Name:</b> JPL-GW, MW-23-5, 10/24/2014 7:25:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
<b>Ethylbenzene</b>	<b>0.12</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.098</b>	<b>EPA-524.2</b>	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
<b>Styrene</b>	<b>0.30</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.068</b>	<b>EPA-524.2</b>	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:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425355-03	<b>Client Sample Name:</b> JPL-GW, MW-23-5, 10/24/2014 7:25:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	98.7	%	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	10/27/14	10/27/14 14:44	MGC	MS-V5	1	BXJ2413

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425355-03	<b>Client Sample Name:</b> JPL-GW, MW-23-5, 10/24/2014 7:25:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/27/14	10/27/14 14:44	MGC	MS-V5	1	BXJ2413

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**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425355-03	<b>Client Sample Name:</b> JPL-GW, MW-23-5, 10/24/2014 7:25:00AM, Blaine Tech
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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	11/12/14	11/12/14 19:43	BMW	IC6	1	BXK1130

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**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425355-03	<b>Client Sample Name:</b> JPL-GW, MW-23-5, 10/24/2014 7:25:00AM, Blaine Tech
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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		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	10/24/14	10/24/14	23:29	TDC	KONE-1	1	BXJ2372
2	EPA-200.8	11/12/14	11/12/14	19:24	EAR	PE-EL2	1	BXK1001

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Reported: 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1425355-04 Client Sample Name: JPL-GW, MW-23-4, 10/24/2014 8:05:00AM, 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	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	V11	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: 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425355-04	<b>Client Sample Name:</b> JPL-GW, MW-23-4, 10/24/2014 8:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425355-04	<b>Client Sample Name:</b> JPL-GW, MW-23-4, 10/24/2014 8:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	83.5	%	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	10/27/14	10/27/14 15:06	MGC	MS-V5	1	BXJ2413

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Powell, OH 43065

**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425355-04	<b>Client Sample Name:</b> JPL-GW, MW-23-4, 10/24/2014 8:05:00AM, 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	10/27/14	10/27/14 15:06	MGC	MS-V5	1	BXJ2413

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Powell, OH 43065

**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425355-04	<b>Client Sample Name:</b> JPL-GW, MW-23-4, 10/24/2014 8:05:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.1	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	11/12/14	11/12/14 19:56	BMW	IC6	1	BXK1130

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Powell, OH 43065

**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425355-04	<b>Client Sample Name:</b> JPL-GW, MW-23-4, 10/24/2014 8:05:00AM, 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	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	10/24/14	10/24/14 23:29	TDC	KONE-1	1	BXJ2372
2	EPA-200.8	11/12/14	11/12/14 19:27	EAR	PE-EL2	1	BXK1001

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Reported: 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425355-05	<b>Client Sample Name:</b> JPL-GW, MW-23-3, 10/24/2014 8:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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: 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425355-05	<b>Client Sample Name:</b> JPL-GW, MW-23-3, 10/24/2014 8:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425355-05	<b>Client Sample Name:</b> JPL-GW, MW-23-3, 10/24/2014 8:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	85.1	%	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	10/27/14	10/27/14 15:29	MGC	MS-V5	1	BXJ2413

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Powell, OH 43065

**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425355-05	<b>Client Sample Name:</b> JPL-GW, MW-23-3, 10/24/2014 8:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/27/14	10/27/14 15:29	MGC	MS-V5	1	BXJ2413

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Powell, OH 43065

**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425355-05	<b>Client Sample Name:</b> JPL-GW, MW-23-3, 10/24/2014 8:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	3.6	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	11/12/14	11/12/14 20:10	BMW	IC6	1	BXK1130

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**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425355-05	<b>Client Sample Name:</b> JPL-GW, MW-23-3, 10/24/2014 8:35:00AM, 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
<b>Total Recoverable Chromium</b>	<b>2.9</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	<b>ND</b>	<b>J</b>	<b>2</b>

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	10/24/14	10/24/14 23:29	TDC	KONE-1	1	BXJ2372
2	EPA-200.8	11/12/14	11/12/14 19:30	EAR	PE-EL2	1	BXK1001

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Reported: 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425355-06	<b>Client Sample Name:</b> JPL-GW, MW-23-2, 10/24/2014 9:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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
<b>Chloroform</b>	<b>0.49</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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
<b>1,1-Dichloroethane</b>	<b>0.14</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.11</b>	<b>EPA-524.2</b>	ND	<b>J</b>	1
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: 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425355-06	<b>Client Sample Name:</b> JPL-GW, MW-23-2, 10/24/2014 9:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Tetrachloroethene</b>	<b>0.34</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.13</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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
<b>Trichloroethene</b>	<b>1.3</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	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:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425355-06	<b>Client Sample Name:</b> JPL-GW, MW-23-2, 10/24/2014 9:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	99.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	86.6	%	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	10/27/14	10/27/14 15:52	MGC	MS-V5	1	BXJ2413

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**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425355-06	<b>Client Sample Name:</b> JPL-GW, MW-23-2, 10/24/2014 9:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/27/14	10/27/14 15:52	MGC	MS-V5	1	BXJ2413

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425355-06	<b>Client Sample Name:</b> JPL-GW, MW-23-2, 10/24/2014 9:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	4.1	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	11/12/14	11/12/14 20:24	BMW	IC6	1	BXK1130

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Powell, OH 43065

**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425355-06	<b>Client Sample Name:</b> JPL-GW, MW-23-2, 10/24/2014 9:10:00AM, Blaine Tech
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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	0.70	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	10/24/14	10/24/14	23:29	TDC	KONE-1	1	BXJ2372
2	EPA-200.8	11/12/14	11/12/14	19:34	EAR	PE-EL2	1	BXK1001

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Powell, OH 43065

Reported: 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425355-07	<b>Client Sample Name:</b> JPL-GW, MW-23-1, 10/24/2014 9:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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
<b>Chloroform</b>	<b>0.59</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	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
<b>1,1-Dichloroethane</b>	<b>0.12</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.11</b>	<b>EPA-524.2</b>	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
<b>cis-1,2-Dichloroethene</b>	<b>0.13</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	ND	J	1
<b>trans-1,2-Dichloroethene</b>	<b>0.19</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.15</b>	<b>EPA-524.2</b>	ND	J	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: 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425355-07	<b>Client Sample Name:</b> JPL-GW, MW-23-1, 10/24/2014 9:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Methyl t-butyl ether</b>	<b>0.13</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.11</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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
<b>Tetrachloroethene</b>	<b>0.48</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.13</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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
<b>Trichloroethene</b>	<b>3.9</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	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:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425355-07	<b>Client Sample Name:</b> JPL-GW, MW-23-1, 10/24/2014 9:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	81.7	%	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	10/27/14	10/27/14 16:14	MGC	MS-V5	1	BXJ2413

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425355-07	<b>Client Sample Name:</b> JPL-GW, MW-23-1, 10/24/2014 9:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/27/14	10/27/14 16:14	MGC	MS-V5	1	BXJ2413

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**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425355-07	<b>Client Sample Name:</b> JPL-GW, MW-23-1, 10/24/2014 9:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	3.8	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	11/12/14	11/12/14 20:38	BMW	IC6	1	BXK1130

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Powell, OH 43065

**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425355-07	<b>Client Sample Name:</b> JPL-GW, MW-23-1, 10/24/2014 9:35:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00080	mg/L	0.0020	0.00070	EPA-7196	ND	J	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	10/24/14	10/24/14 23:36	TDC	KONE-1	1	BXJ2372
2	EPA-200.8	11/12/14	11/12/14 19:37	EAR	PE-EL2	1	BXK1001

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Reported: 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425355-08	<b>Client Sample Name:</b> JPL-GW, MW-25-5, 10/24/2014 10:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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: 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425355-08	<b>Client Sample Name:</b> JPL-GW, MW-25-5, 10/24/2014 10:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425355-08	<b>Client Sample Name:</b> JPL-GW, MW-25-5, 10/24/2014 10:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	84.6	%	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	10/27/14	10/27/14 16:37	MGC	MS-V5	1	BXJ2413

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Powell, OH 43065

**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425355-08	<b>Client Sample Name:</b> JPL-GW, MW-25-5, 10/24/2014 10:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/27/14	10/27/14 16:37	MGC	MS-V5	1	BXJ2413

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**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425355-08	<b>Client Sample Name:</b> JPL-GW, MW-25-5, 10/24/2014 10:40:00AM, Blaine Tech
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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	11/12/14	11/12/14 21:33	BMW	IC6	1	BXK1130

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Powell, OH 43065

**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425355-08	<b>Client Sample Name:</b> JPL-GW, MW-25-5, 10/24/2014 10:40:00AM, Blaine Tech
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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		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	10/24/14	10/24/14	23:36	TDC	KONE-1	1	BXJ2372
2	EPA-200.8	11/12/14	11/12/14	19:41	EAR	PE-EL2	1	BXK1001

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Reported: 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425355-09	<b>Client Sample Name:</b> JPL-GW, MW-25-4, 10/24/2014 11:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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: 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425355-09	<b>Client Sample Name:</b> JPL-GW, MW-25-4, 10/24/2014 11:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425355-09	<b>Client Sample Name:</b> JPL-GW, MW-25-4, 10/24/2014 11:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	82.4	%	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	10/27/14	10/27/14 16:59	MGC	MS-V5	1	BXJ2413

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Powell, OH 43065

**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425355-09	<b>Client Sample Name:</b> JPL-GW, MW-25-4, 10/24/2014 11:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/27/14	10/27/14 16:59	MGC	MS-V5	1	BXJ2413

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**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425355-09	<b>Client Sample Name:</b> JPL-GW, MW-25-4, 10/24/2014 11:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	9.1	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	11/12/14	11/12/14 21:47	BMW	IC6	1	BXK1130

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Powell, OH 43065

**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425355-09	<b>Client Sample Name:</b> JPL-GW, MW-25-4, 10/24/2014 11:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00080	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
<b>Total Recoverable Chromium</b>	<b>0.88</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	<b>ND</b>	<b>J</b>	<b>2</b>

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	10/24/14	10/24/14	23:36	TDC	KONE-1	1	BXJ2372
2	EPA-200.8	11/12/14	11/12/14	19:44	EAR	PE-EL2	1	BXK1001

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Reported: 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425355-10	<b>Client Sample Name:</b> JPL-GW, MW-25-3, 10/24/2014 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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
<b>Chloroform</b>	<b>0.59</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	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: 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425355-10	<b>Client Sample Name:</b> JPL-GW, MW-25-3, 10/24/2014 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Tetrachloroethene</b>	<b>0.28</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.13</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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:** 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425355-10	<b>Client Sample Name:</b> JPL-GW, MW-25-3, 10/24/2014 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	103	%	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	10/27/14	10/27/14 20:01	MGC	MS-V5	1	BXJ2413

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Powell, OH 43065

**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425355-10	<b>Client Sample Name:</b> JPL-GW, MW-25-3, 10/24/2014 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/27/14	10/27/14 20:01	MGC	MS-V5	1	BXJ2413

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Powell, OH 43065

**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425355-10	<b>Client Sample Name:</b> JPL-GW, MW-25-3, 10/24/2014 12:00:00PM, Blaine Tech
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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	11/12/14	11/12/14 22:01	BMW	IC6	1	BXK1130

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Powell, OH 43065

**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425355-10	<b>Client Sample Name:</b> JPL-GW, MW-25-3, 10/24/2014 12:00:00PM, Blaine Tech
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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
<b>Total Recoverable Chromium</b>	<b>2.6</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	<b>ND</b>	<b>J</b>	<b>2</b>

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	10/24/14	10/24/14	23:57	TDC	KONE-1	1	BXJ2372
2	EPA-200.8	11/12/14	11/12/14	19:48	EAR	PE-EL2	1	BXK1001

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Reported: 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425355-11	<b>Client Sample Name:</b> JPL-GW, MW-25-2, 10/24/2014 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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
<b>Chloroform</b>	<b>0.15</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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: 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425355-11	<b>Client Sample Name:</b> JPL-GW, MW-25-2, 10/24/2014 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Trichloroethene</b>	<b>0.28</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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:** 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425355-11	<b>Client Sample Name:</b> JPL-GW, MW-25-2, 10/24/2014 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	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	10/27/14	10/27/14 20:23	MGC	MS-V5	1	BXJ2413

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425355-11	<b>Client Sample Name:</b> JPL-GW, MW-25-2, 10/24/2014 1:00:00PM, 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	10/27/14	10/27/14 20:23	MGC	MS-V5	1	BXJ2413

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**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425355-11	<b>Client Sample Name:</b> JPL-GW, MW-25-2, 10/24/2014 1:00:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	14	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	11/12/14	11/12/14 22:15	BMW	IC6	1	BXK1130

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**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425355-11	<b>Client Sample Name:</b> JPL-GW, MW-25-2, 10/24/2014 1:00:00PM, Blaine Tech
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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
<b>Total Recoverable Chromium</b>	<b>2.3</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	<b>ND</b>	<b>J</b>	<b>2</b>

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	10/24/14	10/24/14 23:57	TDC	KONE-1	1	BXJ2372
2	EPA-200.8	11/12/14	11/12/14 19:51	EAR	PE-EL2	1	BXK1001

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Powell, OH 43065

Reported: 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425355-12	<b>Client Sample Name:</b> JPL-GW, MW-25-1, 10/24/2014 1:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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
<b>Chloroform</b>	<b>0.61</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	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: 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425355-12	<b>Client Sample Name:</b> JPL-GW, MW-25-1, 10/24/2014 1:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Methyl t-butyl ether</b>	<b>0.40</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.11</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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
<b>Trichloroethene</b>	<b>1.3</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	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: 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425355-12	<b>Client Sample Name:</b> JPL-GW, MW-25-1, 10/24/2014 1:30:00PM, 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	V11	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)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	98.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/27/14	10/27/14 20:46	MGC	MS-V5	1	BXJ2413

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Powell, OH 43065

**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425355-12	<b>Client Sample Name:</b> JPL-GW, MW-25-1, 10/24/2014 1:30:00PM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/27/14	10/27/14 20:46	MGC	MS-V5	1	BXJ2413

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**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425355-12	<b>Client Sample Name:</b> JPL-GW, MW-25-1, 10/24/2014 1:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	9.5	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	11/07/14	11/07/14 20:43	ZZZ	IC6	1	BXK0895

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425355-12	<b>Client Sample Name:</b> JPL-GW, MW-25-1, 10/24/2014 1:30:00PM, 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
<b>Total Recoverable Chromium</b>	<b>1.4</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	10/24/14	10/24/14 23:36	TDC	KONE-1	1	BXJ2374
2	EPA-200.8	11/12/14	11/12/14 22:23	EAR	PE-EL2	1	BXK1002

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Powell, OH 43065

Reported: 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425355-13	<b>Client Sample Name:</b> JPL-GW, DUP-4-4Q14, 10/24/2014 1:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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
<b>Chloroform</b>	<b>0.72</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	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: 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425355-13	<b>Client Sample Name:</b> JPL-GW, DUP-4-4Q14, 10/24/2014 1:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Methyl t-butyl ether</b>	<b>0.44</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.11</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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
<b>Trichloroethene</b>	<b>1.6</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	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: 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425355-13	<b>Client Sample Name:</b> JPL-GW, DUP-4-4Q14, 10/24/2014 1:40:00PM, 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	V11	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)	98.8	%	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	10/27/14	10/27/14 21:08	MGC	MS-V5	1	BXJ2413

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Powell, OH 43065

**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425355-13	<b>Client Sample Name:</b> JPL-GW, DUP-4-4Q14, 10/24/2014 1:40:00PM, 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	10/27/14	10/27/14 21:08	MGC	MS-V5	1	BXJ2413

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Powell, OH 43065

**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425355-13	<b>Client Sample Name:</b> JPL-GW, DUP-4-4Q14, 10/24/2014 1:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	9.3	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	11/07/14	11/07/14 20:57	BMW	IC6	1	BXK0895

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**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425355-13	<b>Client Sample Name:</b> JPL-GW, DUP-4-4Q14, 10/24/2014 1:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
<b>Total Recoverable Chromium</b>	<b>1.5</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	ND	J	2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	10/24/14	10/24/14	23:39	TDC	KONE-1	1	BXJ2374
2	EPA-200.8	11/12/14	11/12/14	22:26	EAR	PE-EL2	1	BXK1002

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Powell, OH 43065

Reported: 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
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
<b>QC Batch ID: BXJ2413</b>						
Benzene	BXJ2413-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXJ2413-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXJ2413-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXJ2413-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXJ2413-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXJ2413-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXJ2413-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXJ2413-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXJ2413-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXJ2413-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXJ2413-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXJ2413-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXJ2413-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXJ2413-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXJ2413-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXJ2413-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BXJ2413-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXJ2413-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXJ2413-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXJ2413-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXJ2413-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXJ2413-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXJ2413-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXJ2413-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXJ2413-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXJ2413-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXJ2413-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXJ2413-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXJ2413-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXJ2413-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXJ2413-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXJ2413-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXJ2413-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXJ2413-BLK1	ND	ug/L	0.50	0.14	

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Powell, OH 43065

Reported: 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
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
<b>QC Batch ID: BXJ2413</b>						
trans-1,3-Dichloropropene	BXJ2413-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXJ2413-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXJ2413-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXJ2413-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXJ2413-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXJ2413-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXJ2413-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXJ2413-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXJ2413-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXJ2413-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXJ2413-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BXJ2413-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethane	BXJ2413-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXJ2413-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXJ2413-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXJ2413-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BXJ2413-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXJ2413-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXJ2413-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXJ2413-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXJ2413-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXJ2413-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXJ2413-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXJ2413-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXJ2413-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXJ2413-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXJ2413-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXJ2413-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXJ2413-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXJ2413-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXJ2413-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXJ2413-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXJ2413-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXJ2413-BLK1	ND	ug/L	4.0	0.97	

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Powell, OH 43065

Reported: 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
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
<b>QC Batch ID: BXJ2413</b>						
Ethyl t-butyl ether	BXJ2413-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXJ2413-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXJ2413-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXJ2413-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXJ2413-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXJ2413-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXJ2413-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXJ2413-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXJ2413-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXJ2413-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXJ2413-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXJ2413-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXJ2413-BLK1	ND	ug/L	0.50	0.082	
<b>1,2-Dichloroethane-d4 (Surrogate)</b>	<b>BXJ2413-BLK1</b>	<b>103</b>	<b>%</b>	<b>75 - 125 (LCL - UCL)</b>		
<b>Toluene-d8 (Surrogate)</b>	<b>BXJ2413-BLK1</b>	<b>100</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		
<b>4-Bromofluorobenzene (Surrogate)</b>	<b>BXJ2413-BLK1</b>	<b>85.4</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		

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**Reported:** 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: BXJ2413</b>										
Benzene	BXJ2413-BS1	LCS	23.860	25.000	ug/L	95.4		70 - 130		
Bromodichloromethane	BXJ2413-BS1	LCS	24.500	25.000	ug/L	98.0		70 - 130		
Chlorobenzene	BXJ2413-BS1	LCS	24.260	25.000	ug/L	97.0		70 - 130		
Chloroethane	BXJ2413-BS1	LCS	26.300	25.000	ug/L	105		70 - 130		
1,4-Dichlorobenzene	BXJ2413-BS1	LCS	25.510	25.000	ug/L	102		70 - 130		
1,1-Dichloroethane	BXJ2413-BS1	LCS	23.210	25.000	ug/L	92.8		70 - 130		
1,1-Dichloroethene	BXJ2413-BS1	LCS	23.580	25.000	ug/L	94.3		70 - 130		
Toluene	BXJ2413-BS1	LCS	24.020	25.000	ug/L	96.1		70 - 130		
Trichloroethene	BXJ2413-BS1	LCS	23.760	25.000	ug/L	95.0		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXJ2413-BS1	LCS	9.9300	10.000	ug/L	99.3		75 - 125		
Toluene-d8 (Surrogate)	BXJ2413-BS1	LCS	9.9700	10.000	ug/L	99.7		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXJ2413-BS1	LCS	10.090	10.000	ug/L	101		80 - 120		

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

Reported: 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
<b>QC Batch ID: BXJ2413</b>		Used client sample: Y - Description: EB-5-10/24/14, 10/24/2014 07:00								
Benzene	MS	1425355-02	ND	24.460	25.000	ug/L		97.8		70 - 130
	MSD	1425355-02	ND	25.090	25.000	ug/L	2.5	100	20	70 - 130
Bromodichloromethane	MS	1425355-02	ND	24.850	25.000	ug/L		99.4		70 - 130
	MSD	1425355-02	ND	24.710	25.000	ug/L	0.6	98.8	20	70 - 130
Chlorobenzene	MS	1425355-02	ND	25.500	25.000	ug/L		102		70 - 130
	MSD	1425355-02	ND	25.600	25.000	ug/L	0.4	102	20	70 - 130
Chloroethane	MS	1425355-02	ND	26.880	25.000	ug/L		108		70 - 130
	MSD	1425355-02	ND	27.410	25.000	ug/L	2.0	110	20	70 - 130
1,4-Dichlorobenzene	MS	1425355-02	ND	27.240	25.000	ug/L		109		70 - 130
	MSD	1425355-02	ND	27.750	25.000	ug/L	1.9	111	20	70 - 130
1,1-Dichloroethane	MS	1425355-02	ND	23.890	25.000	ug/L		95.6		70 - 130
	MSD	1425355-02	ND	24.450	25.000	ug/L	2.3	97.8	20	70 - 130
1,1-Dichloroethene	MS	1425355-02	ND	24.390	25.000	ug/L		97.6		70 - 130
	MSD	1425355-02	ND	24.420	25.000	ug/L	0.1	97.7	20	70 - 130
Toluene	MS	1425355-02	ND	25.070	25.000	ug/L		100		70 - 130
	MSD	1425355-02	ND	25.050	25.000	ug/L	0.1	100	20	70 - 130
Trichloroethene	MS	1425355-02	ND	24.950	25.000	ug/L		99.8		70 - 130
	MSD	1425355-02	ND	25.280	25.000	ug/L	1.3	101	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1425355-02	ND	9.6800	10.000	ug/L		96.8		75 - 125
	MSD	1425355-02	ND	9.5100	10.000	ug/L	1.8	95.1		75 - 125
Toluene-d8 (Surrogate)	MS	1425355-02	ND	9.8800	10.000	ug/L		98.8		80 - 120
	MSD	1425355-02	ND	9.7800	10.000	ug/L	1.0	97.8		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1425355-02	ND	10.460	10.000	ug/L		105		80 - 120
	MSD	1425355-02	ND	10.250	10.000	ug/L	2.0	102		80 - 120

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
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
<b>QC Batch ID: BXJ2413</b>						
Chloroacetonitrile	BXJ2413-BLK1	0	ug/L			
1-Chlorobutane	BXJ2413-BLK1	0	ug/L			
1,1-Dichloropropanone	BXJ2413-BLK1	0	ug/L			
Methyl acrylate	BXJ2413-BLK1	0	ug/L			
Nitrobenzene	BXJ2413-BLK1	0	ug/L			
2-Nitropropane	BXJ2413-BLK1	0	ug/L			

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
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
<b>QC Batch ID: BXK0895</b>						
Perchlorate	BXK0895-BLK1	ND	ug/L	4.0	0.45	
<b>QC Batch ID: BXK1130</b>						
Perchlorate	BXK1130-BLK1	ND	ug/L	4.0	0.45	

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Water Analysis (General Chemistry)

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
<b>QC Batch ID: BXK0895</b>											
Perchlorate	BXK0895-BS1	LCS	10.001	1.0000	ug/L	1000		85	115		
<b>QC Batch ID: BXK1130</b>											
Perchlorate	BXK1130-BS1	LCS	9.4676	10.000	ug/L	94.7		85	115		

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
<b>QC Batch ID: BXK0895</b>		Used client sample: Y - Description: MW-18-4, 10/27/2014 08:00								
Perchlorate	DUP	1425441-04	15.089	15.504		ug/L	2.7		15	
	MS	1425441-04	15.089	23.517	1.0101	ug/L		834		80 - 120
	MSD	1425441-04	15.089	23.698	1.0101	ug/L	0.8	852	15	80 - 120
<b>QC Batch ID: BXK1130</b>		Used client sample: Y - Description: EB-5-10/24/14, 10/24/2014 07:00								
Perchlorate	DUP	425355-02RE'	ND	ND		ug/L			15	
	MS	425355-02RE'	ND	9.6079	10.101	ug/L		95.1		80 - 120
	MSD	425355-02RE'	ND	9.6435	10.101	ug/L	0.4	95.5	15	80 - 120

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: BXJ2372</b>						
Hexavalent Chromium	BXJ2372-BLK1	ND	mg/L	0.0020	0.00070	
<b>QC Batch ID: BXJ2374</b>						
Hexavalent Chromium	BXJ2374-BLK1	ND	mg/L	0.0020	0.00070	
<b>QC Batch ID: BXK1001</b>						
Total Recoverable Chromium	BXK1001-BLK1	ND	ug/L	3.0	0.50	
<b>QC Batch ID: BXK1002</b>						
Total Recoverable Chromium	BXK1002-BLK1	ND	ug/L	3.0	0.50	

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Metals Analysis

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: BXJ2372</b>										
Hexavalent Chromium	BXJ2372-BS1	LCS	0.050793	0.050000	mg/L	102		85 - 115		
<b>QC Batch ID: BXJ2374</b>										
Hexavalent Chromium	BXJ2374-BS1	LCS	0.048839	0.050000	mg/L	97.7		85 - 115		
<b>QC Batch ID: BXK1001</b>										
Total Recoverable Chromium	BXK1001-BS1	LCS	39.815	40.000	ug/L	99.5		85 - 115		
<b>QC Batch ID: BXK1002</b>										
Total Recoverable Chromium	BXK1002-BS1	LCS	39.182	40.000	ug/L	98.0		85 - 115		

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

Reported: 11/14/2014 17:00  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Metals Analysis

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
<b>QC Batch ID: BXJ2372</b>		Used client sample: Y - Description: EB-5-10/24/14, 10/24/2014 07:00								
Hexavalent Chromium	DUP	1425355-02	ND	ND		mg/L			10	
	MS	1425355-02	ND	0.054483	0.052632	mg/L		104		85 - 115
	MSD	1425355-02	ND	0.054067	0.052632	mg/L	0.8	103	10	85 - 115
<b>QC Batch ID: BXJ2374</b>		Used client sample: Y - Description: MW-25-1, 10/24/2014 13:30								
Hexavalent Chromium	DUP	1425355-12	ND	ND		mg/L			10	
	MS	1425355-12	ND	0.051736	0.052632	mg/L		98.3		85 - 115
	MSD	1425355-12	ND	0.050574	0.052632	mg/L	2.3	96.1	10	85 - 115
<b>QC Batch ID: BXK1001</b>		Used client sample: Y - Description: EB-5-10/24/14, 10/24/2014 07:00								
Total Recoverable Chromium	DUP	1425355-02	ND	ND		ug/L			20	
	MS	1425355-02	ND	43.179	40.000	ug/L		108		70 - 130
	MSD	1425355-02	ND	39.939	40.000	ug/L	7.8	99.8	20	70 - 130
<b>QC Batch ID: BXK1002</b>		Used client sample: N								
Total Recoverable Chromium	DUP	1425349-02	2.8200	2.5710		ug/L	9.2		20	J
	MS	1425349-02	2.8200	41.894	40.000	ug/L		97.7		70 - 130
	MSD	1425349-02	2.8200	43.188	40.000	ug/L	3.0	101	20	70 - 130

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/14/2014 17:00  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**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
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.



Date of Report: 01/07/2015

David Conner

Tidewater Inc.

3761 Attucks Drive  
Powell, OH 43065

Client Project: 4th Quarter  
BCL Project: JPL- GW Monitoring Wells  
BCL Work Order: 1425441  
Invoice ID: B189519

Enclosed are the results of analyses for samples received by the laboratory on 10/27/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton  
Client Service Rep

Authorized Signature

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

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Chain of Custody Form

BC Laboratories, Inc.

Page 1 of 2

**Required Fields**

Report To: Tidewater, Inc.  
 Client: Tidewater, Inc. (P.O. #1213-000-02)  
 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@ideh2o.net  
 Submission #: 14-25441

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

**Analysis Requested**

Sample #	Sample Description	Date	Time	Matrix*
-1	TB-6-10/27/14	10-27-14	0645	AR
-2	EB-6-10/27/14		0650	
-3	MW-1B-5		0770	
-4	MW-1B-4		0800	
-5	MW-1B-3		0830	
-6	DUP-5-40214		0840	
-7	MW-1B-2		0910	
-8	MW-26-2		1000	
-9	MW-26-1		1030	
-10	DUP-6-4014		1040	
-4	MW-21-5		1145	

**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  Normal (10 - Days)

**Lab TAT Approval:** \_\_\_\_\_

**Cost Center:**  
 1. Relinquished By: [Signature] Date: 10-27-14 Time: 1500  
 2. Relinquished By: [Signature] Date: 10-27-14 Time: 1550  
 3. Relinquished By: [Signature] Date: 10-27-14 Time: 1920

**Global ID:** \_\_\_\_\_

**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)

**Notes:**  
 CHK BY: MISBRIKUTION  
 SUB-OUT  
 Level IV  
 SHORT HOLDING TIME  
 DO Cl<sub>2</sub> BOD MIBAS COI

**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: 21034  
 Are there any tests with holding times? less than or equal to 48 hours?  
 Yes  No  
 \*Standard Turnaround = 10

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

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Chain of Custody Form

Page 2 of 2

**Required Fields**

Report To: Tidewater, Inc.  
 Client: Tidewater, Inc. (P.O. #1213-000-02)  
 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@tidewater.net  
 Submission #: 1425441

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

**Analysis Requested**

Sample #	Sample Description	Date	Time	Matrix*
-12	MW-21-4	10-27-14	1215	AG
-15	MW-21-3	↓	1310	↓
-14	MW-21-2	↓	1340	↓

**Analysis Requested**

Analysis	Requested
VOCs EPA 524.2	X
Total Cr (200.8)	X
Perchlorate (EPA 314.0)	X
Chloride, Nitrate, Sulfate (300)	X
Orthophosphate (365.1)	X
Nitrite (353.2)	X
Hexavalent Cr (7196)	X

**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: 21034

Are there any tests with holding times? less than or equal to 48 hours?  
 Yes  No

\*Standard Turnaround = 10

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

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

Lab TAT Approval: \_\_\_\_\_

**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 or C  
 NOTE: ALL ANALYSIS REQUIRED TO HAVE CALIBRATION SUMMARIES (Inform QC)

**Cost Center:**

1. Relinquished By: [Signature] Date: 10-27-14 Time: 1500  
 2. Relinquished By: [Signature] Date: 10-27-14 Time: 1550  
 3. Relinquished By: [Signature] Date: 10-27-14 Time: 1920

**Global ID:**

1. Received By: [Signature] Date: 10/27/14 Time: 1500  
 2. Received By: [Signature] Date: 10/27/14 Time: 1550  
 3. Received By: [Signature] Date: 10/27/14 Time: 1550

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

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 of 2

Submission #: 14-25441

SHIPPING INFORMATION
Federal Express [ ] UPS [ ] Hand Delivery [ ]
BC Lab Field Service [x] Other [ ] (Specify) \_\_\_\_\_

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

FREE LIQUID
YES [ ] NO [ ]

Refrigerant: Ice [x] Blue Ice [ ] None [ ] Other [ ] Comments: \_\_\_\_\_

Custody Seals Ice Chest [ ] Containers [ ] None [x] Comments: \_\_\_\_\_
Intact? Yes [ ] No [ ] Intact? Yes [ ] No [ ]

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

COC Received
YES [x] NO [ ]

Emissivity: 0.98 Container: PE Thermometer ID: 207

Date/Time: 02/16/15 (1920)

Temperature: (A) 2.0 °C (C) 1.6 °C

Analyst Init: M

Table with columns for Sample Containers and Sample Numbers (1-10). Rows include various sample types like QT GENERAL MINERAL, PT PE UNPRESERVED, etc. Handwritten entries include 'D', 'E', 'A', and 'ABC'.

Comments: 4 vials not received [initials]
Sample Numbering Completed By: M

Date/Time: 02/16/15

[S:\WPDoc\WordPerfect\LAB\_DOCS\FORMS\SAMREC]

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 2 Of 2

Submission #: 1425441

SHIPPING INFORMATION: Federal Express, UPS, Hand Delivery, BC Lab Field Service. SHIPPING CONTAINER: Ice Chest, None, Box. FREE LIQUID: YES, NO.

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

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

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

COC Received: YES, NO. Emissivity: 0.90. Container: PE. Thermometer ID: 207. Date/Time: 10-27-16 1920. Analyst Init: M.

Table with columns for SAMPLE CONTAINERS and SAMPLE NUMBERS (1-10). Rows include various sample types like QT GENERAL MINERAL, PT PE UNPRESERVED, etc.

Comments: Sample Numbering Completed By: [Signature] Date/Time: 10-27-16 2030 [Signature] (S:\WPDoc\WordPerfect\LAB\_DOCS\FORMS\SAMREC)



Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>1425441-01</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> TB-6-10/27/14 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/27/2014 19:20 <b>Sampling Date:</b> 10/27/2014 06:45 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-6-10/27/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1425441-02</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> EB-6-10/27/14 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/27/2014 19:20 <b>Sampling Date:</b> 10/27/2014 06:50 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-6-10/27/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1425441-03</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-18-5 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/27/2014 19:20 <b>Sampling Date:</b> 10/27/2014 07:20 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> 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:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>1425441-04</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-18-4 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/27/2014 19:20 <b>Sampling Date:</b> 10/27/2014 08:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-18-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1425441-05</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-18-3 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/27/2014 19:20 <b>Sampling Date:</b> 10/27/2014 08:30 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-18-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1425441-06</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> Dup-5-4Q14 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/27/2014 19:20 <b>Sampling Date:</b> 10/27/2014 08:40 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): Dup-5-4Q14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>1425441-07</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-18-2 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/27/2014 19:20 <b>Sampling Date:</b> 10/27/2014 09:10 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> 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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<b>1425441-08</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-26-2 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/27/2014 19:20 <b>Sampling Date:</b> 10/27/2014 10:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-26-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1425441-09</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-26-1 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/27/2014 19:20 <b>Sampling Date:</b> 10/27/2014 10:30 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-26-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>1425441-10</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> Dup-6-4Q14 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/27/2014 19:20 <b>Sampling Date:</b> 10/27/2014 10:40 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): Dup-6-4Q14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1425441-11</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-21-5 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/27/2014 19:20 <b>Sampling Date:</b> 10/27/2014 11:45 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-21-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1425441-12</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-21-4 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/27/2014 19:20 <b>Sampling Date:</b> 10/27/2014 12:15 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-21-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>1425441-13</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-21-3 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/27/2014 19:20 <b>Sampling Date:</b> 10/27/2014 13:10 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-21-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1425441-14</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-21-2 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/27/2014 19:20 <b>Sampling Date:</b> 10/27/2014 13:40 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-21-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-01	<b>Client Sample Name:</b> JPL-GW, TB-6-10/27/14, 10/27/2014 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	V11	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: 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-01	<b>Client Sample Name:</b> JPL-GW, TB-6-10/27/14, 10/27/2014 6:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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: 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-01	<b>Client Sample Name:</b> JPL-GW, TB-6-10/27/14, 10/27/2014 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	V11	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)	99.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.3	%	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	10/28/14	10/28/14 13:00	MGC	MS-V5	1	BXJ2520

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Powell, OH 43065

**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425441-01	<b>Client Sample Name:</b> JPL-GW, TB-6-10/27/14, 10/27/2014 6:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/28/14	10/28/14 13:00	MGC	MS-V5	1	BXJ2520

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

Reported: 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-02	<b>Client Sample Name:</b> JPL-GW, EB-6-10/27/14, 10/27/2014 6:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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: 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-02	<b>Client Sample Name:</b> JPL-GW, EB-6-10/27/14, 10/27/2014 6:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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:** 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-02	<b>Client Sample Name:</b> JPL-GW, EB-6-10/27/14, 10/27/2014 6:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	99.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	89.4	%	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	10/28/14	10/28/14 12:37	MGC	MS-V5	1	BXJ2520

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Powell, OH 43065

**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425441-02	<b>Client Sample Name:</b> JPL-GW, EB-6-10/27/14, 10/27/2014 6:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/28/14	10/28/14 12:37	MGC	MS-V5	1	BXJ2520

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Powell, OH 43065

**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425441-02	<b>Client Sample Name:</b> JPL-GW, EB-6-10/27/14, 10/27/2014 6:50:00AM, Blaine Tech
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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	11/07/14	11/07/14 21:24	OLH	IC6	1	BXK0895

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**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425441-02	<b>Client Sample Name:</b> JPL-GW, EB-6-10/27/14, 10/27/2014 6:50:00AM, Blaine Tech
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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		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	10/27/14	10/27/14 22:13	BMW	KONE-1	1	BXJ2590
2	EPA-200.8	12/08/14	12/08/14 20:22	SRM	PE-EL2	1	BXL0700

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Reported: 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-03	<b>Client Sample Name:</b> JPL-GW, MW-18-5, 10/27/2014 7:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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: 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-03	<b>Client Sample Name:</b> JPL-GW, MW-18-5, 10/27/2014 7:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Styrene</b>	<b>0.080</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.068</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-03	<b>Client Sample Name:</b> JPL-GW, MW-18-5, 10/27/2014 7:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	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	10/28/14	10/28/14 13:22	MGC	MS-V5	1	BXJ2520

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Powell, OH 43065

**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425441-03	<b>Client Sample Name:</b> JPL-GW, MW-18-5, 10/27/2014 7:20:00AM, 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	10/28/14	10/28/14 13:22	MGC	MS-V5	1	BXJ2520

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**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425441-03	<b>Client Sample Name:</b> JPL-GW, MW-18-5, 10/27/2014 7:20:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	0.66	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	11/07/14	11/07/14 21:38	OLH	IC6	1	BXK0895

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**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425441-03	<b>Client Sample Name:</b> JPL-GW, MW-18-5, 10/27/2014 7:20:00AM, Blaine Tech
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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		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	10/27/14	10/27/14 22:13	BMW	KONE-1	1	BXJ2590
2	EPA-200.8	12/08/14	12/08/14 20:25	SRM	PE-EL2	1	BXL0700

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Reported: 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-04	<b>Client Sample Name:</b> JPL-GW, MW-18-4, 10/27/2014 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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
<b>Carbon tetrachloride</b>	<b>1.5</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.18</b>	<b>EPA-524.2</b>	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
<b>Chloroform</b>	<b>0.64</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	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: 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-04	<b>Client Sample Name:</b> JPL-GW, MW-18-4, 10/27/2014 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Tetrachloroethene</b>	<b>0.90</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.13</b>	<b>EPA-524.2</b>	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
<b>Trichloroethene</b>	<b>0.92</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	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:** 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-04	<b>Client Sample Name:</b> JPL-GW, MW-18-4, 10/27/2014 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	V11	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)	99.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	87.4	%	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	10/28/14	10/28/14 13:51	MGC	MS-V5	1	BXJ2520

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Powell, OH 43065

**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425441-04	<b>Client Sample Name:</b> JPL-GW, MW-18-4, 10/27/2014 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/28/14	10/28/14 13:51	MGC	MS-V5	1	BXJ2520

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**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425441-04	<b>Client Sample Name:</b> JPL-GW, MW-18-4, 10/27/2014 8:00:00AM, 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	11/07/14	11/07/14 21:52	OLH	IC6	1	BXK0895

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**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425441-04	<b>Client Sample Name:</b> JPL-GW, MW-18-4, 10/27/2014 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00099	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
<b>Total Recoverable Chromium</b>	<b>1.6</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	<b>ND</b>	<b>J</b>	<b>2</b>

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	10/27/14	10/27/14 22:13	BMW	KONE-1	1	BXJ2590
2	EPA-200.8	12/08/14	12/08/14 20:28	SRM	PE-EL2	1	BXL0700

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Powell, OH 43065

Reported: 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-05	<b>Client Sample Name:</b> JPL-GW, MW-18-3, 10/27/2014 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	V11	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
<b>Carbon tetrachloride</b>	<b>5.0</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.18</b>	<b>EPA-524.2</b>	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
<b>Chloroform</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	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: 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-05	<b>Client Sample Name:</b> JPL-GW, MW-18-3, 10/27/2014 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Trichloroethene</b>	<b>0.40</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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:** 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-05	<b>Client Sample Name:</b> JPL-GW, MW-18-3, 10/27/2014 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	101	%	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	10/28/14	10/28/14 14:13	MGC	MS-V5	1	BXJ2520

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**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425441-05	<b>Client Sample Name:</b> JPL-GW, MW-18-3, 10/27/2014 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/28/14	10/28/14 14:13	MGC	MS-V5	1	BXJ2520

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Powell, OH 43065

**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425441-05	<b>Client Sample Name:</b> JPL-GW, MW-18-3, 10/27/2014 8:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	17	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	11/07/14	11/07/14 23:15	OLH	IC6	1	BXK0895

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**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425441-05	<b>Client Sample Name:</b> JPL-GW, MW-18-3, 10/27/2014 8:30:00AM, Blaine Tech
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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	2.2	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	10/27/14	10/27/14 22:13	BMW	KONE-1	1	BXJ2590
2	EPA-200.8	12/08/14	12/08/14 20:32	SRM	PE-EL2	1	BXL0700

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Reported: 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-06	<b>Client Sample Name:</b> JPL-GW, Dup-5-4Q14, 10/27/2014 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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
<b>Carbon tetrachloride</b>	<b>3.8</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.18</b>	<b>EPA-524.2</b>	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
<b>Chloroform</b>	<b>0.84</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	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: 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-06	<b>Client Sample Name:</b> JPL-GW, Dup-5-4Q14, 10/27/2014 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Trichloroethene</b>	<b>0.31</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-06	<b>Client Sample Name:</b> JPL-GW, Dup-5-4Q14, 10/27/2014 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	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	10/28/14	10/28/14 14:36	MGC	MS-V5	1	BXJ2520

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Powell, OH 43065

**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425441-06	<b>Client Sample Name:</b> JPL-GW, Dup-5-4Q14, 10/27/2014 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/28/14	10/28/14 14:36	MGC	MS-V5	1	BXJ2520

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425441-06	<b>Client Sample Name:</b> JPL-GW, Dup-5-4Q14, 10/27/2014 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	17	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	11/07/14	11/07/14 23:29	OLH	IC6	1	BXK0895

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**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425441-06	<b>Client Sample Name:</b> JPL-GW, Dup-5-4Q14, 10/27/2014 8:40:00AM, Blaine Tech
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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	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	10/27/14	10/27/14 22:32	BMW	KONE-1	1	BXJ2590
2	EPA-200.8	12/08/14	12/08/14 20:35	SRM	PE-EL2	1	BXL0700

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Powell, OH 43065

Reported: 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-07	<b>Client Sample Name:</b> JPL-GW, MW-18-2, 10/27/2014 9:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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: 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-07	<b>Client Sample Name:</b> JPL-GW, MW-18-2, 10/27/2014 9:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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:** 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-07	<b>Client Sample Name:</b> JPL-GW, MW-18-2, 10/27/2014 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	V11	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)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	88.2	%	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	10/28/14	10/28/14 14:58	MGC	MS-V5	1	BXJ2520

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Powell, OH 43065

**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425441-07	<b>Client Sample Name:</b> JPL-GW, MW-18-2, 10/27/2014 9:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/28/14	10/28/14 14:58	MGC	MS-V5	1	BXJ2520

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Powell, OH 43065

**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425441-07	<b>Client Sample Name:</b> JPL-GW, MW-18-2, 10/27/2014 9:10:00AM, Blaine Tech
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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	11/07/14	11/07/14 23:43	OLH	IC6	1	BXK0895

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**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425441-07	<b>Client Sample Name:</b> JPL-GW, MW-18-2, 10/27/2014 9:10:00AM, Blaine Tech
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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		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	10/27/14	10/27/14 22:16	BMW	KONE-1	1	BXJ2590
2	EPA-200.8	12/08/14	12/08/14 20:39	SRM	PE-EL2	1	BXL0700

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Reported: 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-08	<b>Client Sample Name:</b> JPL-GW, MW-26-2, 10/27/2014 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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
<b>Chloroform</b>	<b>1.2</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	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
<b>cis-1,2-Dichloroethene</b>	<b>0.16</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	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: 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-08	<b>Client Sample Name:</b> JPL-GW, MW-26-2, 10/27/2014 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Tetrachloroethene</b>	<b>1.9</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.13</b>	<b>EPA-524.2</b>	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
<b>Trichloroethene</b>	<b>0.25</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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: 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-08	<b>Client Sample Name:</b> JPL-GW, MW-26-2, 10/27/2014 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	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	10/28/14	10/28/14 15:21	MGC	MS-V5	1	BXJ2520

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Powell, OH 43065

**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425441-08	<b>Client Sample Name:</b> JPL-GW, MW-26-2, 10/27/2014 10:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/28/14	10/28/14 15:21	MGC	MS-V5	1	BXJ2520

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**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425441-08	<b>Client Sample Name:</b> JPL-GW, MW-26-2, 10/27/2014 10:00:00AM, Blaine Tech
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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	11/07/14	11/11/14 03:06	OLH	IC6	1	BXK0895

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**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425441-08	<b>Client Sample Name:</b> JPL-GW, MW-26-2, 10/27/2014 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
<b>Total Recoverable Chromium</b>	<b>2.3</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	10/28/14	10/28/14 07:31	TDC	KONE-1	1	BXJ2592
2	EPA-200.8	12/08/14	12/08/14 20:42	SRM	PE-EL2	1	BXL0700

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Reported: 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-09	<b>Client Sample Name:</b> JPL-GW, MW-26-1, 10/27/2014 10:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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
<b>Chloroform</b>	<b>0.25</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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: 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-09	<b>Client Sample Name:</b> JPL-GW, MW-26-1, 10/27/2014 10:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Tetrachloroethene</b>	<b>0.27</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.13</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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
<b>Trichloroethene</b>	<b>0.11</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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: 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-09	<b>Client Sample Name:</b> JPL-GW, MW-26-1, 10/27/2014 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	V11	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)	88.2	%	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	10/28/14	10/28/14 15:44	MGC	MS-V5	1	BXJ2520

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Powell, OH 43065

**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425441-09	<b>Client Sample Name:</b> JPL-GW, MW-26-1, 10/27/2014 10:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/28/14	10/28/14 15:44	MGC	MS-V5	1	BXJ2520

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**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425441-09	<b>Client Sample Name:</b> JPL-GW, MW-26-1, 10/27/2014 10:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.2	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	11/07/14	11/08/14 00:38	OLH	IC6	1	BXK0896

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Powell, OH 43065

**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425441-09	<b>Client Sample Name:</b> JPL-GW, MW-26-1, 10/27/2014 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		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	10/28/14	10/28/14 07:31	TDC	KONE-1	1	BXJ2592
2	EPA-200.8	12/08/14	12/08/14 20:46	SRM	PE-EL2	1	BXL0700

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

Reported: 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-10	<b>Client Sample Name:</b> JPL-GW, Dup-6-4Q14, 10/27/2014 10:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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
<b>Chloroform</b>	<b>0.22</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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: 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1425441-10		Client Sample Name: JPL-GW, Dup-6-4Q14, 10/27/2014 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
<b>Tetrachloroethene</b>	<b>0.26</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.13</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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
<b>Trichloroethene</b>	<b>0.090</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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: 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-10	<b>Client Sample Name:</b> JPL-GW, Dup-6-4Q14, 10/27/2014 10:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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	V11	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)	89.3	%	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	10/28/14	10/28/14 19:30	MGC	MS-V5	1	BXJ2520

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425441-10	<b>Client Sample Name:</b> JPL-GW, Dup-6-4Q14, 10/27/2014 10:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/28/14	10/28/14 19:30	MGC	MS-V5	1	BXJ2520

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425441-10	<b>Client Sample Name:</b> JPL-GW, Dup-6-4Q14, 10/27/2014 10:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.9	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	11/07/14	11/08/14 01:19	OLH	IC6	1	BXK0896

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425441-10	<b>Client Sample Name:</b> JPL-GW, Dup-6-4Q14, 10/27/2014 10:40:00AM, Blaine Tech
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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		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	10/28/14	10/28/14 07:31	TDC	KONE-1	1	BXJ2592
2	EPA-200.8	12/08/14	12/08/14 20:49	SRM	PE-EL2	1	BXL0700

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Powell, OH 43065

Reported: 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-11	<b>Client Sample Name:</b> JPL-GW, MW-21-5, 10/27/2014 11:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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
<b>Chloroform</b>	<b>6.2</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	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: 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-11	<b>Client Sample Name:</b> JPL-GW, MW-21-5, 10/27/2014 11:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Tetrachloroethene</b>	<b>0.79</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.13</b>	<b>EPA-524.2</b>	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
<b>Trichloroethene</b>	<b>0.090</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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
<b>Acetone</b>	<b>12</b>	<b>ug/L</b>	<b>10</b>	<b>4.6</b>	<b>EPA-524.2</b>	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:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-11	<b>Client Sample Name:</b> JPL-GW, MW-21-5, 10/27/2014 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	V11	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	V11	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)	87.4	%	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	10/28/14	10/28/14 19:52	MGC	MS-V5	1	BXJ2520

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425441-11	<b>Client Sample Name:</b> JPL-GW, MW-21-5, 10/27/2014 11:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/28/14	10/28/14 19:52	MGC	MS-V5	1	BXJ2520

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**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425441-11	<b>Client Sample Name:</b> JPL-GW, MW-21-5, 10/27/2014 11:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.9	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	11/07/14	11/08/14 01:33	OLH	IC6	1	BXK0896

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**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425441-11	<b>Client Sample Name:</b> JPL-GW, MW-21-5, 10/27/2014 11:45:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00081	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
<b>Total Recoverable Chromium</b>	<b>1.4</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	<b>ND</b>	<b>J</b>	<b>2</b>

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	10/28/14	10/28/14 07:31	TDC	KONE-1	1	BXJ2592
2	EPA-200.8	12/08/14	12/08/14 19:11	SRM	PE-EL2	1	BXL0714

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Reported: 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-12	<b>Client Sample Name:</b> JPL-GW, MW-21-4, 10/27/2014 12:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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
<b>Chloroform</b>	<b>7.2</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	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
<b>cis-1,2-Dichloroethene</b>	<b>0.12</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	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: 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-12	<b>Client Sample Name:</b> JPL-GW, MW-21-4, 10/27/2014 12:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Tetrachloroethene</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.13</b>	<b>EPA-524.2</b>	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
<b>Trichloroethene</b>	<b>0.16</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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:** 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-12	<b>Client Sample Name:</b> JPL-GW, MW-21-4, 10/27/2014 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	V11	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	V11	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)	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	10/28/14	10/28/14 20:15	MGC	MS-V5	1	BXJ2520

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425441-12	<b>Client Sample Name:</b> JPL-GW, MW-21-4, 10/27/2014 12:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/28/14	10/28/14 20:15	MGC	MS-V5	1	BXJ2520

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Powell, OH 43065

**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425441-12	<b>Client Sample Name:</b> JPL-GW, MW-21-4, 10/27/2014 12:15:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.0	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	11/07/14	11/08/14 02:29	OLH	IC6	1	BXK0896

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**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425441-12	<b>Client Sample Name:</b> JPL-GW, MW-21-4, 10/27/2014 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
<b>Total Recoverable Chromium</b>	<b>1.2</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	10/28/14	10/28/14 07:38	TDC	KONE-1	1	BXJ2592
2	EPA-200.8	12/08/14	12/08/14 22:30	SRM	PE-EL2	1	BXL0714

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Reported: 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-13	<b>Client Sample Name:</b> JPL-GW, MW-21-3, 10/27/2014 1:10:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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
<b>Chloroform</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	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
<b>1,1-Dichloroethane</b>	<b>0.22</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.11</b>	<b>EPA-524.2</b>	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
<b>cis-1,2-Dichloroethene</b>	<b>0.44</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	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: 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-13	<b>Client Sample Name:</b> JPL-GW, MW-21-3, 10/27/2014 1:10:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Methyl t-butyl ether</b>	<b>0.19</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.11</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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
<b>Tetrachloroethene</b>	<b>3.0</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.13</b>	<b>EPA-524.2</b>	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
<b>Trichloroethene</b>	<b>1.3</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	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:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-13	<b>Client Sample Name:</b> JPL-GW, MW-21-3, 10/27/2014 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	V11	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	V11	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)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	88.1	%	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	10/28/14	10/28/14 20:37	MGC	MS-V5	1	BXJ2520

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Powell, OH 43065

**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425441-13	<b>Client Sample Name:</b> JPL-GW, MW-21-3, 10/27/2014 1:10:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/28/14	10/28/14 20:37	MGC	MS-V5	1	BXJ2520

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Powell, OH 43065

**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425441-13	<b>Client Sample Name:</b> JPL-GW, MW-21-3, 10/27/2014 1:10:00PM, Blaine Tech
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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	11/07/14	11/08/14 02:42	OLH	IC6	1	BXK0896

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Powell, OH 43065

**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425441-13	<b>Client Sample Name:</b> JPL-GW, MW-21-3, 10/27/2014 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
<b>Total Recoverable Chromium</b>	<b>0.78</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	10/28/14	10/28/14 07:34	TDC	KONE-1	1	BXJ2592
2	EPA-200.8	12/08/14	12/08/14 22:34	SRM	PE-EL2	1	BXL0714

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Reported: 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

**BCL Sample ID:** 1425441-14      **Client Sample Name:** JPL-GW, MW-21-2, 10/27/2014 1:40:00PM, 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	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	V11	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
<b>Chloroform</b>	<b>0.29</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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: 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-14	<b>Client Sample Name:</b> JPL-GW, MW-21-2, 10/27/2014 1:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Methyl t-butyl ether</b>	<b>0.13</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.11</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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
<b>Tetrachloroethene</b>	<b>1.1</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.13</b>	<b>EPA-524.2</b>	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
<b>Trichloroethene</b>	<b>0.21</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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: 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425441-14	<b>Client Sample Name:</b> JPL-GW, MW-21-2, 10/27/2014 1:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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	V11	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)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	86.0	%	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	10/28/14	10/28/14 21:00	MGC	MS-V5	1	BXJ2520

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425441-14	<b>Client Sample Name:</b> JPL-GW, MW-21-2, 10/27/2014 1:40:00PM, 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	10/28/14	10/28/14 21:00	MGC	MS-V5	1	BXJ2520

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Powell, OH 43065

**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425441-14	<b>Client Sample Name:</b> JPL-GW, MW-21-2, 10/27/2014 1:40:00PM, 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	11/07/14	11/08/14 02:56	OLH	IC6	1	BXK0896

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**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425441-14	<b>Client Sample Name:</b> JPL-GW, MW-21-2, 10/27/2014 1:40:00PM, 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		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	10/28/14	10/28/14 07:34	TDC	KONE-1	1	BXJ2592
2	EPA-200.8	12/08/14	12/08/14 22:37	SRM	PE-EL2	1	BXL0714

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Reported: 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
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
<b>QC Batch ID: BXJ2520</b>						
Benzene	BXJ2520-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXJ2520-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXJ2520-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXJ2520-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXJ2520-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXJ2520-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXJ2520-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXJ2520-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXJ2520-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXJ2520-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXJ2520-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXJ2520-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXJ2520-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXJ2520-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXJ2520-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXJ2520-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BXJ2520-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXJ2520-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXJ2520-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXJ2520-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXJ2520-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXJ2520-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXJ2520-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXJ2520-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXJ2520-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXJ2520-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXJ2520-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXJ2520-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXJ2520-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXJ2520-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXJ2520-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXJ2520-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXJ2520-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXJ2520-BLK1	ND	ug/L	0.50	0.14	

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Reported: 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
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
<b>QC Batch ID: BXJ2520</b>						
trans-1,3-Dichloropropene	BXJ2520-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXJ2520-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXJ2520-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXJ2520-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXJ2520-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXJ2520-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXJ2520-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXJ2520-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXJ2520-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXJ2520-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXJ2520-BLK1	ND	ug/L	0.50	0.18	
1,1,1,2-Tetrachloroethane	BXJ2520-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethane	BXJ2520-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXJ2520-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXJ2520-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXJ2520-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BXJ2520-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXJ2520-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXJ2520-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXJ2520-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXJ2520-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXJ2520-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXJ2520-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXJ2520-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXJ2520-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXJ2520-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXJ2520-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXJ2520-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXJ2520-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXJ2520-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXJ2520-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXJ2520-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXJ2520-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXJ2520-BLK1	ND	ug/L	4.0	0.97	

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Powell, OH 43065

**Reported:** 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
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
<b>QC Batch ID: BXJ2520</b>						
Ethyl t-butyl ether	BXJ2520-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXJ2520-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXJ2520-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXJ2520-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXJ2520-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXJ2520-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXJ2520-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXJ2520-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXJ2520-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXJ2520-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXJ2520-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXJ2520-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXJ2520-BLK1	ND	ug/L	0.50	0.082	
<b>1,2-Dichloroethane-d4 (Surrogate)</b>	<b>BXJ2520-BLK1</b>	<b>101</b>	<b>%</b>	<b>75 - 125 (LCL - UCL)</b>		
<b>Toluene-d8 (Surrogate)</b>	<b>BXJ2520-BLK1</b>	<b>98.9</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		
<b>4-Bromofluorobenzene (Surrogate)</b>	<b>BXJ2520-BLK1</b>	<b>89.1</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		

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**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: BXJ2520</b>										
Benzene	BXJ2520-BS1	LCS	26.320	25.000	ug/L	105		70 - 130		
Bromodichloromethane	BXJ2520-BS1	LCS	27.260	25.000	ug/L	109		70 - 130		
Chlorobenzene	BXJ2520-BS1	LCS	26.680	25.000	ug/L	107		70 - 130		
Chloroethane	BXJ2520-BS1	LCS	29.630	25.000	ug/L	119		70 - 130		
1,4-Dichlorobenzene	BXJ2520-BS1	LCS	29.170	25.000	ug/L	117		70 - 130		
1,1-Dichloroethane	BXJ2520-BS1	LCS	25.730	25.000	ug/L	103		70 - 130		
1,1-Dichloroethene	BXJ2520-BS1	LCS	25.910	25.000	ug/L	104		70 - 130		
Toluene	BXJ2520-BS1	LCS	27.460	25.000	ug/L	110		70 - 130		
Trichloroethene	BXJ2520-BS1	LCS	27.320	25.000	ug/L	109		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXJ2520-BS1	LCS	9.7600	10.000	ug/L	97.6		75 - 125		
Toluene-d8 (Surrogate)	BXJ2520-BS1	LCS	10.080	10.000	ug/L	101		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXJ2520-BS1	LCS	10.420	10.000	ug/L	104		80 - 120		

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Reported: 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: BXJ2520</b>		Used client sample: Y - Description: EB-6-10/27/14, 10/27/2014 06:50								
Benzene	MS	1425441-02	ND	25.230	25.000	ug/L		101		70 - 130
	MSD	1425441-02	ND	25.330	25.000	ug/L	0.4	101	20	70 - 130
Bromodichloromethane	MS	1425441-02	ND	24.900	25.000	ug/L		99.6		70 - 130
	MSD	1425441-02	ND	25.790	25.000	ug/L	3.5	103	20	70 - 130
Chlorobenzene	MS	1425441-02	ND	25.290	25.000	ug/L		101		70 - 130
	MSD	1425441-02	ND	25.880	25.000	ug/L	2.3	104	20	70 - 130
Chloroethane	MS	1425441-02	ND	27.480	25.000	ug/L		110		70 - 130
	MSD	1425441-02	ND	28.260	25.000	ug/L	2.8	113	20	70 - 130
1,4-Dichlorobenzene	MS	1425441-02	ND	28.130	25.000	ug/L		113		70 - 130
	MSD	1425441-02	ND	27.580	25.000	ug/L	2.0	110	20	70 - 130
1,1-Dichloroethane	MS	1425441-02	ND	24.410	25.000	ug/L		97.6		70 - 130
	MSD	1425441-02	ND	24.370	25.000	ug/L	0.2	97.5	20	70 - 130
1,1-Dichloroethene	MS	1425441-02	ND	24.720	25.000	ug/L		98.9		70 - 130
	MSD	1425441-02	ND	24.510	25.000	ug/L	0.9	98.0	20	70 - 130
Toluene	MS	1425441-02	ND	25.160	25.000	ug/L		101		70 - 130
	MSD	1425441-02	ND	26.060	25.000	ug/L	3.5	104	20	70 - 130
Trichloroethene	MS	1425441-02	ND	25.090	25.000	ug/L		100		70 - 130
	MSD	1425441-02	ND	25.400	25.000	ug/L	1.2	102	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1425441-02	ND	9.5500	10.000	ug/L		95.5		75 - 125
	MSD	1425441-02	ND	9.6200	10.000	ug/L	0.7	96.2		75 - 125
Toluene-d8 (Surrogate)	MS	1425441-02	ND	9.8500	10.000	ug/L		98.5		80 - 120
	MSD	1425441-02	ND	10.030	10.000	ug/L	1.8	100		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1425441-02	ND	10.180	10.000	ug/L		102		80 - 120
	MSD	1425441-02	ND	10.090	10.000	ug/L	0.9	101		80 - 120

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**Reported:** 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
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
<b>QC Batch ID: BXJ2520</b>						
Chloroacetonitrile	BXJ2520-BLK1	0	ug/L			
1-Chlorobutane	BXJ2520-BLK1	0	ug/L			
1,1-Dichloropropanone	BXJ2520-BLK1	0	ug/L			
Methyl acrylate	BXJ2520-BLK1	0	ug/L			
Nitrobenzene	BXJ2520-BLK1	0	ug/L			
2-Nitropropane	BXJ2520-BLK1	0	ug/L			

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**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**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
<b>QC Batch ID: BXK0895</b>						
Perchlorate	BXK0895-BLK1	ND	ug/L	4.0	0.45	
<b>QC Batch ID: BXK0896</b>						
Perchlorate	BXK0896-BLK1	ND	ug/L	4.0	0.45	

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**Reported:** 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

## Water Analysis (General Chemistry)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab	Quals
								Percent Recovery	RPD		
<b>QC Batch ID: BXK0895</b>											
Perchlorate	BXK0895-BS1	LCS	10.001	10.000	ug/L	100		85	115		
<b>QC Batch ID: BXK0896</b>											
Perchlorate	BXK0896-BS1	LCS	9.6747	10.000	ug/L	96.7		85	115		

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Powell, OH 43065

**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
<b>QC Batch ID: BXK0895</b>		Used client sample: Y - Description: MW-18-4, 10/27/2014 08:00								
Perchlorate	DUP	1425441-04	15.089	15.504		ug/L	2.7		15	
	MS	1425441-04	15.089	23.517	10.101	ug/L		83.4		80 - 120
	MSD	1425441-04	15.089	23.698	10.101	ug/L	0.8	85.2	15	80 - 120
<b>QC Batch ID: BXK0896</b>		Used client sample: Y - Description: MW-21-5, 10/27/2014 11:45								
Perchlorate	DUP	1425441-11	1.8592	1.8083		ug/L	2.8		15	J
	MS	1425441-11	1.8592	10.866	10.101	ug/L		89.2		80 - 120
	MSD	1425441-11	1.8592	10.857	10.101	ug/L	0.1	89.1	15	80 - 120

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: BXJ2590</b>						
Hexavalent Chromium	BXJ2590-BLK1	ND	mg/L	0.0020	0.00070	
<b>QC Batch ID: BXJ2592</b>						
Hexavalent Chromium	BXJ2592-BLK1	ND	mg/L	0.0020	0.00070	
<b>QC Batch ID: BXL0700</b>						
Total Recoverable Chromium	BXL0700-BLK1	ND	ug/L	3.0	0.50	
<b>QC Batch ID: BXL0714</b>						
Total Recoverable Chromium	BXL0714-BLK1	ND	ug/L	3.0	0.50	

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: BXJ2590</b>										
Hexavalent Chromium	BXJ2590-BS1	LCS	0.049648	0.050000	mg/L	99.3		85 - 115		
<b>QC Batch ID: BXJ2592</b>										
Hexavalent Chromium	BXJ2592-BS1	LCS	0.050813	0.050000	mg/L	102		85 - 115		
<b>QC Batch ID: BXL0700</b>										
Total Recoverable Chromium	BXL0700-BS1	LCS	43.140	40.000	ug/L	108		85 - 115		
<b>QC Batch ID: BXL0714</b>										
Total Recoverable Chromium	BXL0714-BS1	LCS	43.287	40.000	ug/L	108		85 - 115		

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

Reported: 01/07/2015 12:44  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Metals Analysis

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
<b>QC Batch ID: BXJ2590</b>		Used client sample: Y - Description: EB-6-10/27/14, 10/27/2014 06:50								
Hexavalent Chromium	DUP	1425441-02	ND	ND		mg/L			10	
	MS	1425441-02	ND	0.053483	0.052632	mg/L		102		85 - 115
	MSD	1425441-02	ND	0.053153	0.052632	mg/L	0.6	101	10	85 - 115
<b>QC Batch ID: BXJ2592</b>		Used client sample: Y - Description: MW-21-5, 10/27/2014 11:45								
Hexavalent Chromium	DUP	1425441-11	0.00080600	0.00096000		mg/L	17.4		10	J,A02
	MS	1425441-11	0.00080600	0.053275	0.052632	mg/L		99.7		85 - 115
	MSD	1425441-11	0.00080600	0.051651	0.052632	mg/L	3.1	96.6	10	85 - 115
<b>QC Batch ID: BXL0700</b>		Used client sample: Y - Description: DUP-1-4Q14, 10/21/2014 11:50								
Total Recoverable Chromium	DUP	425001-12RE	2.4830	2.8400		ug/L	13.4		20	J
	MS	425001-12RE	2.4830	41.816	40.000	ug/L		98.3		70 - 130
	MSD	425001-12RE	2.4830	42.147	40.000	ug/L	0.8	99.2	20	70 - 130
<b>QC Batch ID: BXL0714</b>		Used client sample: Y - Description: MW-21-5, 10/27/2014 11:45								
Total Recoverable Chromium	DUP	425441-11RE	1.4440	1.3710		ug/L	5.2		20	J
	MS	425441-11RE	1.4440	41.195	40.000	ug/L		99.4		70 - 130
	MSD	425441-11RE	1.4440	40.850	40.000	ug/L	0.8	98.5	20	70 - 130

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 01/07/2015 12:44  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**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.
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.



Date of Report: 11/17/2014

David Conner

Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

Client Project: 4TH Quarter  
BCL Project: JPL- GW Monitoring Wells  
BCL Work Order: 1425550  
Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 10/28/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton  
Client Service Rep

Authorized Signature

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

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Chain of Custody Form

Page 1 of 2

**Report To:** Client: Tidelwater, Inc. (P.O. #1213-000-02)  
**Client:** David Conner  
**Atttn:** As directed by Ben Headington  
**Street Address:** 3761 Altuicks Drive  
**City:** Powell **State:** OH **Zip:** 43065  
**Phone:** (614) 792-2897 **Fax:** (614) 792-2897  
**Email Address:** david.conner@tideh2o.net  
**Submission #:** 14-25550

**Project Description:** JPL-GW Monitoring  
**Project Code:** 4th Quarter  
**Sampler (s):** Blaine Tech

Sample #	Sample Description	Date		Time	Matrix*
		Date	Time		
-1	TB-7-10/28/14	10-28-14	06:45	10:00	X
-2	SB-3-10/28/14		07:05		X
-3	EB-7-10/28/14		07:30		X
-4	MW-12-5		08:10		X
-5	MW-12-4		08:45		X
-6	MW-12-3		08:55		X
-7	DUP-7-40/14		09:25		X
-8	MW-12-2		10:35		X
-9	MW-24-5		11:15		X
-10	MW-24-4				X
-11	DUP-8-40/14		11:25		X

**Analysis Requested:**  
 VOCs EPA 524.2 [X] Total Cr (200.8) [X] Perchlorate (EPA 314.0) [X] Chloride, Nitrate, Sulfate (300) [X] Orthophosphate (365.1) [X] Nitrite (353.2) [X] Hexavalent Cr (7196) [X]

**Notes:**  
 SHORT HOLDING TIME (Cr+6) (NO2) (NO3) (OP) SS  
 DO Cl2 BOD MBAS COT  
 CHK BY: DISTRIBUTION  
 NWA [Signature] 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

**Global ID:** \_\_\_\_\_

**Cost Center:**  
 1. Relinquished By: [Signature] Date: 10-28-14 Time: 15:30  
 2. Relinquished By: [Signature] Date: 10/28/14 Time: 15:30  
 3. Relinquished By: [Signature] Date: 10-28-14 Time: 18:05

**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:**  MBU Site  CVX RCRA  Geotracker 5 File (CA Default)  Geotracker 2 File  Other (Specify) \_\_\_\_\_

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

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Chain of Custody Form

BC Laboratories, Inc.

Page 2 of 2

**\*Required Fields**

Report To: Tidewater, Inc.  
 Client: David Conner  
 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 #: H-25550

Project Description: JPL\_GW Monitoring  
 Project Code: 4th Quarter  
 Sampler(s): Blaine Tech

**Analysis Requested**

Sample #	Sample Description	Date	Time	Matrix*
-12	MW-24-3	10-28-14	12:00	AO
-13	MW-24-2	↓	13:05	↓
-14	MW-24-1	↓	13:40	↓

**Analysis Requested**

Analysis Requested	Requested
VOCs EPA 524.2	
Total Cr (200.8)	XXX
Perchlorate (EPA 314.0)	XXX
Chloride, Nitrate, Sulfate (300)	XXX
Orthophosphate (365.1)	XXX
Nitrite (353.2)	XXX
Hexavalent Cr (7196)	XXX

**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  Normal (10 - Days)

**Lab TAT Approval:** \_\_\_\_\_

**Cost Center:**  
 1. Relinquished By: [Signature] Date: 10-28-14 Time: 1:50  
 2. Relinquished By: [Signature] Date: 10-28-14 Time: 1:50  
 3. Relinquished By: [Signature] Date: 10-28-14 Time: 1:50

**Global ID:** \_\_\_\_\_

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

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



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 Of 2

Submission #: 14-25550

**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  Containers  None  Comments: \_\_\_\_\_  
 Intact? Yes  No  Intact? Yes  No

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

**COC Received**  
 YES  NO

Emissivity: 0.98 Container: PE Thermometer ID: 207 Date/Time: 10/28/14 10:25  
 Temperature: (A) 1.7 °C / (C) 1.3 °C Analyst Init: KLB

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL		D	D	D	D	D	D	D	D	D
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS		E	E	E	E	E	E	E	E	E
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A									
40ml VOA VIAL		ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC	ABC
QT EPA 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										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber 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: MWL Date/Time: 10/28/14 @ 11:35 (S:\WPDoc\WordPerfect\LAB\_DOCS\FORMS\SAMREC)  
 A = Actual / C = Corrected



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 2 of 2

Submission #: 14-25550

**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  Containers  None  Comments: \_\_\_\_\_  
 Intact? Yes  No  Intact? Yes  No

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

**COC Received**  
 YES  NO

Emissivity: 0.98 Container: PE Thermometer ID: 207 Date/Time 10/28/14 10:25  
 Temperature: (A) 1.7 °C / (C) 1.3 °C Analyst Init KLB

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	D	D	D	D						
PT PE UNPRESERVED				E						
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS	E	E	E	F						
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	ABC	ABC	ABC	ABC						
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										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber 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: MW Date/Time: 10/28/14 @ 10:25 IS:\WPDoc\WordPerfect\LAB\_DOCS\FORMS\SAMREC)

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

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

<b>1425550-01</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> TB-7-10/28/14 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/28/2014 18:25 <b>Sampling Date:</b> 10/28/2014 06:45 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Trip Blank Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-7-10/28/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	---

<b>1425550-02</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> SB-3-10/28/14 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/28/2014 18:25 <b>Sampling Date:</b> 10/28/2014 07:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): SB-3-10/28/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

<b>1425550-03</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> EB-7-10/28/14 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/28/2014 18:25 <b>Sampling Date:</b> 10/28/2014 07:05 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-7-10/28/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>1425550-04</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-12-5 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/28/2014 18:25 <b>Sampling Date:</b> 10/28/2014 07:30 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-12-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1425550-05</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-12-4 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/28/2014 18:25 <b>Sampling Date:</b> 10/28/2014 08:10 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-12-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1425550-06</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-12-3 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/28/2014 18:25 <b>Sampling Date:</b> 10/28/2014 08:45 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Aqueous 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:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>1425550-07</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> DUP-7-4Q14 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/28/2014 18:25 <b>Sampling Date:</b> 10/28/2014 08:55 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): DUP-7-4Q14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1425550-08</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-12-2 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/28/2014 18:25 <b>Sampling Date:</b> 10/28/2014 09:25 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-12-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1425550-09</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-24-5 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/28/2014 18:25 <b>Sampling Date:</b> 10/28/2014 10:35 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-24-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>1425550-10</b>	<b>COC Number:</b> ---	<b>Receive Date:</b> 10/28/2014 18:25
	<b>Project Number:</b> JPL-GW	<b>Sampling Date:</b> 10/28/2014 11:15
	<b>Sampling Location:</b> ---	<b>Sample Depth:</b> ---
	<b>Sampling Point:</b> MW-24-4	<b>Lab Matrix:</b> Water
	<b>Sampled By:</b> Blaine Tech of BAT	<b>Sample Type:</b> Aqueous
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-24-4
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

<b>1425550-11</b>	<b>COC Number:</b> ---	<b>Receive Date:</b> 10/28/2014 18:25
	<b>Project Number:</b> JPL-GW	<b>Sampling Date:</b> 10/28/2014 11:25
	<b>Sampling Location:</b> ---	<b>Sample Depth:</b> ---
	<b>Sampling Point:</b> DUP-8-4Q14	<b>Lab Matrix:</b> Water
	<b>Sampled By:</b> Blaine Tech of BAT	<b>Sample Type:</b> Aqueous
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): DUP-8-4Q14
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

<b>1425550-12</b>	<b>COC Number:</b> ---	<b>Receive Date:</b> 10/28/2014 18:25
	<b>Project Number:</b> JPL-GW	<b>Sampling Date:</b> 10/28/2014 12:00
	<b>Sampling Location:</b> ---	<b>Sample Depth:</b> ---
	<b>Sampling Point:</b> MW-24-3	<b>Lab Matrix:</b> Water
	<b>Sampled By:</b> Blaine Tech of BAT	<b>Sample Type:</b> Aqueous
		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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Powell, OH 43065

**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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<b>1425550-13</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-24-2 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/28/2014 18:25 <b>Sampling Date:</b> 10/28/2014 13:05 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-24-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1425550-14</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-24-1 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/28/2014 18:25 <b>Sampling Date:</b> 10/28/2014 13:40 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Aqueous 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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Powell, OH 43065

Reported: 11/17/2014 15:42  
Project: JPL- GW Monitoring Wells  
Project Number: 4TH Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425550-01	<b>Client Sample Name:</b> JPL-GW, TB-7-10/28/14, 10/28/2014 6:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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: 11/17/2014 15:42  
Project: JPL- GW Monitoring Wells  
Project Number: 4TH Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

**BCL Sample ID:** 1425550-01      **Client Sample Name:** JPL-GW, TB-7-10/28/14, 10/28/2014 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	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:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425550-01	<b>Client Sample Name:</b> JPL-GW, TB-7-10/28/14, 10/28/2014 6:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/29/14	10/29/14 12:28	MGC	MS-V5	1	BXJ2654

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Powell, OH 43065

**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425550-01	<b>Client Sample Name:</b> JPL-GW, TB-7-10/28/14, 10/28/2014 6:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/29/14	10/29/14 12:28	MGC	MS-V5	1	BXJ2654

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Powell, OH 43065

Reported: 11/17/2014 15:42  
Project: JPL- GW Monitoring Wells  
Project Number: 4TH Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425550-02	<b>Client Sample Name:</b> JPL-GW, SB-3-10/28/14, 10/28/2014 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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: 11/17/2014 15:42  
Project: JPL- GW Monitoring Wells  
Project Number: 4TH Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425550-02	<b>Client Sample Name:</b> JPL-GW, SB-3-10/28/14, 10/28/2014 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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: 11/17/2014 15:42  
Project: JPL- GW Monitoring Wells  
Project Number: 4TH Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425550-02	<b>Client Sample Name:</b> JPL-GW, SB-3-10/28/14, 10/28/2014 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	100	%	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	10/29/14	10/29/14 12:50	MGC	MS-V5	1	BXJ2654

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425550-02	<b>Client Sample Name:</b> JPL-GW, SB-3-10/28/14, 10/28/2014 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/29/14	10/29/14 12:50	MGC	MS-V5	1	BXJ2654

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Powell, OH 43065

**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425550-02	<b>Client Sample Name:</b> JPL-GW, SB-3-10/28/14, 10/28/2014 7:00:00AM, Blaine Tech
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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	11/11/14	11/11/14 21:24	BMW	IC6	1	BXK1031

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Powell, OH 43065

**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425550-02	<b>Client Sample Name:</b> JPL-GW, SB-3-10/28/14, 10/28/2014 7:00:00AM, Blaine Tech
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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		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	10/28/14	10/28/14 22:58	BMW	KONE-1	1	BXJ2608
2	EPA-200.8	11/13/14	11/14/14 11:40	EAR	PE-EL2	1	BXK1107

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Powell, OH 43065

Reported: 11/17/2014 15:42  
Project: JPL- GW Monitoring Wells  
Project Number: 4TH Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425550-03	<b>Client Sample Name:</b> JPL-GW, EB-7-10/28/14, 10/28/2014 7:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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: 11/17/2014 15:42  
Project: JPL- GW Monitoring Wells  
Project Number: 4TH Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425550-03	<b>Client Sample Name:</b> JPL-GW, EB-7-10/28/14, 10/28/2014 7:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425550-03	<b>Client Sample Name:</b> JPL-GW, EB-7-10/28/14, 10/28/2014 7:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	103	%	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	10/29/14	10/29/14 13:13	MGC	MS-V5	1	BXJ2654

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Powell, OH 43065

**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425550-03	<b>Client Sample Name:</b> JPL-GW, EB-7-10/28/14, 10/28/2014 7:05:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/29/14	10/29/14 13:13	MGC	MS-V5	1	BXJ2654

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Powell, OH 43065

**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425550-03	<b>Client Sample Name:</b> JPL-GW, EB-7-10/28/14, 10/28/2014 7:05:00AM, Blaine Tech
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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	11/11/14	11/11/14 22:19	BMW	IC6	1	BXK1031

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425550-03	<b>Client Sample Name:</b> JPL-GW, EB-7-10/28/14, 10/28/2014 7:05:00AM, Blaine Tech
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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		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	10/28/14	10/28/14 22:58	BMW	KONE-1	1	BXJ2608
2	EPA-200.8	11/13/14	11/14/14 12:08	EAR	PE-EL2	1	BXK1107

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Powell, OH 43065

Reported: 11/17/2014 15:42  
Project: JPL- GW Monitoring Wells  
Project Number: 4TH Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425550-04	<b>Client Sample Name:</b> JPL-GW, MW-12-5, 10/28/2014 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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
<b>Carbon tetrachloride</b>	<b>0.24</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.18</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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
<b>Chloroform</b>	<b>0.27</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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: 11/17/2014 15:42  
Project: JPL- GW Monitoring Wells  
Project Number: 4TH Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425550-04	<b>Client Sample Name:</b> JPL-GW, MW-12-5, 10/28/2014 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Trichloroethene</b>	<b>0.090</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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: 11/17/2014 15:42  
Project: JPL- GW Monitoring Wells  
Project Number: 4TH Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425550-04	<b>Client Sample Name:</b> JPL-GW, MW-12-5, 10/28/2014 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.4	%	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	10/29/14	10/29/14 13:36	MGC	MS-V5	1	BXJ2654

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425550-04	<b>Client Sample Name:</b> JPL-GW, MW-12-5, 10/28/2014 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/29/14	10/29/14 13:36	MGC	MS-V5	1	BXJ2654

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Powell, OH 43065

**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425550-04	<b>Client Sample Name:</b> JPL-GW, MW-12-5, 10/28/2014 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.5	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	11/11/14	11/11/14 22:33	BMW	IC6	1	BXK1031

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425550-04	<b>Client Sample Name:</b> JPL-GW, MW-12-5, 10/28/2014 7:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0013	mg/L	0.0020	0.00070	EPA-7196	ND	J	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	10/28/14	10/28/14 22:58	BMW	KONE-1	1	BXJ2608
2	EPA-200.8	11/13/14	11/14/14 12:11	EAR	PE-EL2	1	BXK1107

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Powell, OH 43065

Reported: 11/17/2014 15:42  
Project: JPL- GW Monitoring Wells  
Project Number: 4TH Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425550-05	<b>Client Sample Name:</b> JPL-GW, MW-12-4, 10/28/2014 8:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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
<b>Carbon tetrachloride</b>	<b>0.46</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.18</b>	<b>EPA-524.2</b>	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
<b>Chloroform</b>	<b>0.55</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	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: 11/17/2014 15:42  
Project: JPL- GW Monitoring Wells  
Project Number: 4TH Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425550-05	<b>Client Sample Name:</b> JPL-GW, MW-12-4, 10/28/2014 8:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Trichloroethene</b>	<b>0.18</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425550-05	<b>Client Sample Name:</b> JPL-GW, MW-12-4, 10/28/2014 8:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	103	%	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	10/29/14	10/29/14 13:58	MGC	MS-V5	1	BXJ2654

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Powell, OH 43065

**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425550-05	<b>Client Sample Name:</b> JPL-GW, MW-12-4, 10/28/2014 8:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/29/14	10/29/14 13:58	MGC	MS-V5	1	BXJ2654

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**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425550-05	<b>Client Sample Name:</b> JPL-GW, MW-12-4, 10/28/2014 8:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	2.2	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	11/11/14	11/11/14 22:47	BMW	IC6	1	BXK1031

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**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425550-05	<b>Client Sample Name:</b> JPL-GW, MW-12-4, 10/28/2014 8:10:00AM, 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
<b>Total Recoverable Chromium</b>	<b>0.75</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	10/28/14	10/28/14 22:58	BMW	KONE-1	1	BXJ2608
2	EPA-200.8	11/13/14	11/14/14 12:14	EAR	PE-EL2	1	BXK1107

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Reported: 11/17/2014 15:42  
Project: JPL- GW Monitoring Wells  
Project Number: 4TH Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1425550-06 Client Sample Name: JPL-GW, MW-12-3, 10/28/2014 8:45:00AM, 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	V11	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
<b>Carbon tetrachloride</b>	<b>0.63</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.18</b>	<b>EPA-524.2</b>	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
<b>Chloroform</b>	<b>2.9</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	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: 11/17/2014 15:42  
Project: JPL- GW Monitoring Wells  
Project Number: 4TH Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425550-06	<b>Client Sample Name:</b> JPL-GW, MW-12-3, 10/28/2014 8:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Trichloroethene</b>	<b>0.26</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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: 11/17/2014 15:42  
Project: JPL- GW Monitoring Wells  
Project Number: 4TH Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425550-06	<b>Client Sample Name:</b> JPL-GW, MW-12-3, 10/28/2014 8:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	102	%	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	10/29/14	10/29/14 14:21	MGC	MS-V5	1	BXJ2654

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Powell, OH 43065

**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425550-06	<b>Client Sample Name:</b> JPL-GW, MW-12-3, 10/28/2014 8:45:00AM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/29/14	10/29/14 14:21	MGC	MS-V5	1	BXJ2654

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**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425550-06	<b>Client Sample Name:</b> JPL-GW, MW-12-3, 10/28/2014 8:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	0.70	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	11/11/14	11/11/14 23:01	BMW	IC6	1	BXK1031

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**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425550-06	<b>Client Sample Name:</b> JPL-GW, MW-12-3, 10/28/2014 8:45:00AM, 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		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	10/28/14	10/28/14 22:58	BMW	KONE-1	1	BXJ2608
2	EPA-200.8	11/13/14	11/14/14 12:18	EAR	PE-EL2	1	BXK1107

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Reported: 11/17/2014 15:42  
Project: JPL- GW Monitoring Wells  
Project Number: 4TH Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425550-07	<b>Client Sample Name:</b> JPL-GW, DUP-7-4Q14, 10/28/2014 8:55:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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
<b>Carbon tetrachloride</b>	<b>1.1</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.18</b>	<b>EPA-524.2</b>	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
<b>Chloroform</b>	<b>3.5</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	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: 11/17/2014 15:42  
Project: JPL- GW Monitoring Wells  
Project Number: 4TH Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425550-07	<b>Client Sample Name:</b> JPL-GW, DUP-7-4Q14, 10/28/2014 8:55:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Trichloroethene</b>	<b>0.34</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425550-07	<b>Client Sample Name:</b> JPL-GW, DUP-7-4Q14, 10/28/2014 8:55:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	98.3	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	103	%	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	10/29/14	10/29/14 14:43	MGC	MS-V5	1	BXJ2654

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Powell, OH 43065

**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425550-07	<b>Client Sample Name:</b> JPL-GW, DUP-7-4Q14, 10/28/2014 8:55:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/29/14	10/29/14 14:43	MGC	MS-V5	1	BXJ2654

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Powell, OH 43065

**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425550-07	<b>Client Sample Name:</b> JPL-GW, DUP-7-4Q14, 10/28/2014 8:55:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	1.2	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	11/11/14	11/11/14 23:14	BMW	IC6	1	BXK1031

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Powell, OH 43065

**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425550-07	<b>Client Sample Name:</b> JPL-GW, DUP-7-4Q14, 10/28/2014 8:55:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
<b>Total Recoverable Chromium</b>	<b>0.57</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	ND	J	2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	10/28/14	10/28/14	23:05	BMW	KONE-1	1	BXJ2608
2	EPA-200.8	11/13/14	11/14/14	12:21	EAR	PE-EL2	1	BXK1107

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Reported: 11/17/2014 15:42  
Project: JPL- GW Monitoring Wells  
Project Number: 4TH Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425550-08	<b>Client Sample Name:</b> JPL-GW, MW-12-2, 10/28/2014 9:25:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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: 11/17/2014 15:42  
Project: JPL- GW Monitoring Wells  
Project Number: 4TH Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425550-08	<b>Client Sample Name:</b> JPL-GW, MW-12-2, 10/28/2014 9:25:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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: 11/17/2014 15:42  
Project: JPL- GW Monitoring Wells  
Project Number: 4TH Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425550-08	<b>Client Sample Name:</b> JPL-GW, MW-12-2, 10/28/2014 9:25:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	101	%	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	10/29/14	10/29/14 15:06	MGC	MS-V5	1	BXJ2654

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425550-08	<b>Client Sample Name:</b> JPL-GW, MW-12-2, 10/28/2014 9:25:00AM, 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	10/29/14	10/29/14 15:06	MGC	MS-V5	1	BXJ2654

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425550-08	<b>Client Sample Name:</b> JPL-GW, MW-12-2, 10/28/2014 9:25:00AM, Blaine Tech
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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	11/11/14	11/11/14 23:56	BMW	IC6	1	BXK1031

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Tidewater Inc.  
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Powell, OH 43065

**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425550-08	<b>Client Sample Name:</b> JPL-GW, MW-12-2, 10/28/2014 9:25:00AM, 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
<b>Total Recoverable Chromium</b>	<b>2.8</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	10/28/14	10/28/14 23:05	BMW	KONE-1	1	BXJ2608
2	EPA-200.8	11/13/14	11/14/14 12:25	EAR	PE-EL2	1	BXK1107

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Reported: 11/17/2014 15:42  
Project: JPL- GW Monitoring Wells  
Project Number: 4TH Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425550-09	<b>Client Sample Name:</b> JPL-GW, MW-24-5, 10/28/2014 10:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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:** 11/17/2014 15:42  
Project: JPL- GW Monitoring Wells  
Project Number: 4TH Quarter  
Project Manager: David Conner

## Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1425550-09		Client Sample Name: JPL-GW, MW-24-5, 10/28/2014 10:35:00AM, 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	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:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425550-09	<b>Client Sample Name:</b> JPL-GW, MW-24-5, 10/28/2014 10:35:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	102	%	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	10/29/14	10/29/14 15:29	MGC	MS-V5	1	BXJ2654

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425550-09	<b>Client Sample Name:</b> JPL-GW, MW-24-5, 10/28/2014 10:35:00AM, 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	10/29/14	10/29/14 15:29	MGC	MS-V5	1	BXJ2654

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**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425550-09	<b>Client Sample Name:</b> JPL-GW, MW-24-5, 10/28/2014 10:35:00AM, Blaine Tech
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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	11/11/14	11/12/14 00:10	OLH	IC6	1	BXK1031

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Powell, OH 43065

**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425550-09	<b>Client Sample Name:</b> JPL-GW, MW-24-5, 10/28/2014 10:35:00AM, 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
<b>Total Recoverable Chromium</b>	<b>1.1</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	<b>ND</b>	<b>J</b>	<b>2</b>

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	10/28/14	10/28/14 23:14	BMW	KONE-1	1	BXJ2608
2	EPA-200.8	11/13/14	11/14/14 12:28	EAR	PE-EL2	1	BXK1107

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Reported: 11/17/2014 15:42  
Project: JPL- GW Monitoring Wells  
Project Number: 4TH Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425550-10	<b>Client Sample Name:</b> JPL-GW, MW-24-4, 10/28/2014 11:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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: 11/17/2014 15:42  
Project: JPL- GW Monitoring Wells  
Project Number: 4TH Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425550-10	<b>Client Sample Name:</b> JPL-GW, MW-24-4, 10/28/2014 11:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
<b>Ethylbenzene</b>	<b>0.10</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.098</b>	<b>EPA-524.2</b>	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
<b>Styrene</b>	<b>0.15</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.068</b>	<b>EPA-524.2</b>	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:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425550-10	<b>Client Sample Name:</b> JPL-GW, MW-24-4, 10/28/2014 11:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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	V11	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)	102	%	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	10/29/14	10/29/14 19:38	MGC	MS-V5	1	BXJ2654

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**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425550-10	<b>Client Sample Name:</b> JPL-GW, MW-24-4, 10/28/2014 11:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/29/14	10/29/14 19:38	MGC	MS-V5	1	BXJ2654

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**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425550-10	<b>Client Sample Name:</b> JPL-GW, MW-24-4, 10/28/2014 11:15:00AM, Blaine Tech
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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	11/11/14	11/12/14 00:24	OLH	IC6	1	BXK1031

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**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425550-10	<b>Client Sample Name:</b> JPL-GW, MW-24-4, 10/28/2014 11:15:00AM, Blaine Tech
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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		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	10/28/14	10/28/14	23:05	BMW	KONE-1	1	BXJ2608
2	EPA-200.8	11/13/14	11/14/14	12:32	EAR	PE-EL2	1	BXK1107

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Reported: 11/17/2014 15:42  
Project: JPL- GW Monitoring Wells  
Project Number: 4TH Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425550-11	<b>Client Sample Name:</b> JPL-GW, DUP-8-4Q14, 10/28/2014 11:25:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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: 11/17/2014 15:42  
Project: JPL- GW Monitoring Wells  
Project Number: 4TH Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425550-11	<b>Client Sample Name:</b> JPL-GW, DUP-8-4Q14, 10/28/2014 11:25:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
<b>Ethylbenzene</b>	<b>0.15</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.098</b>	<b>EPA-524.2</b>	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
<b>Styrene</b>	<b>0.19</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.068</b>	<b>EPA-524.2</b>	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:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425550-11	<b>Client Sample Name:</b> JPL-GW, DUP-8-4Q14, 10/28/2014 11:25:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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	V11	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)	102	%	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	10/29/14	10/29/14 20:01	MGC	MS-V5	1	BXJ2654

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**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425550-11	<b>Client Sample Name:</b> JPL-GW, DUP-8-4Q14, 10/28/2014 11:25:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/29/14	10/29/14 20:01	MGC	MS-V5	1	BXJ2654

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**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425550-11	<b>Client Sample Name:</b> JPL-GW, DUP-8-4Q14, 10/28/2014 11:25:00AM, Blaine Tech
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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	11/11/14	11/12/14 01:05	OLH	IC6	1	BXK1032

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425550-11	<b>Client Sample Name:</b> JPL-GW, DUP-8-4Q14, 10/28/2014 11:25:00AM, 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
<b>Total Recoverable Chromium</b>	<b>0.69</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	ND	J	2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	10/28/14	10/28/14	23:05	BMW	KONE-1	1	BXJ2608
2	EPA-200.8	11/13/14	11/14/14	12:35	EAR	PE-EL2	1	BXK1107

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Powell, OH 43065

Reported: 11/17/2014 15:42  
Project: JPL- GW Monitoring Wells  
Project Number: 4TH Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425550-12	<b>Client Sample Name:</b> JPL-GW, MW-24-3, 10/28/2014 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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: 11/17/2014 15:42  
Project: JPL- GW Monitoring Wells  
Project Number: 4TH Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425550-12	<b>Client Sample Name:</b> JPL-GW, MW-24-3, 10/28/2014 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Styrene</b>	<b>0.070</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.068</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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: 11/17/2014 15:42  
Project: JPL- GW Monitoring Wells  
Project Number: 4TH Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425550-12	<b>Client Sample Name:</b> JPL-GW, MW-24-3, 10/28/2014 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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	V11	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)	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	10/29/14	10/29/14 20:23	MGC	MS-V5	1	BXJ2654

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425550-12	<b>Client Sample Name:</b> JPL-GW, MW-24-3, 10/28/2014 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/29/14	10/29/14 20:23	MGC	MS-V5	1	BXJ2654

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Powell, OH 43065

**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425550-12	<b>Client Sample Name:</b> JPL-GW, MW-24-3, 10/28/2014 12:00:00PM, Blaine Tech
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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	11/11/14	11/12/14 02:00	OLH	IC6	1	BXK1032

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425550-12	<b>Client Sample Name:</b> JPL-GW, MW-24-3, 10/28/2014 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	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		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	10/28/14	10/29/14 07:17	BMW	KONE-1	1	BXJ2610
2	EPA-200.8	11/14/14	11/14/14 17:16	EAR	PE-EL2	1	BXK1216

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Powell, OH 43065

Reported: 11/17/2014 15:42  
Project: JPL- GW Monitoring Wells  
Project Number: 4TH Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1425550-13 Client Sample Name: JPL-GW, MW-24-2, 10/28/2014 1:05:00PM, 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
<b>Bromodichloromethane</b>	<b>0.64</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	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	V11	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
<b>Chloroform</b>	<b>0.78</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	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
<b>1,1-Dichloroethane</b>	<b>0.16</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.11</b>	<b>EPA-524.2</b>	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: 11/17/2014 15:42  
Project: JPL- GW Monitoring Wells  
Project Number: 4TH Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425550-13	<b>Client Sample Name:</b> JPL-GW, MW-24-2, 10/28/2014 1:05:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Tetrachloroethene</b>	<b>0.20</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.13</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425550-13	<b>Client Sample Name:</b> JPL-GW, MW-24-2, 10/28/2014 1:05:00PM, 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	V11	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	V11	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)	103	%	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	10/29/14	10/29/14 20:46	MGC	MS-V5	1	BXJ2654

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425550-13	<b>Client Sample Name:</b> JPL-GW, MW-24-2, 10/28/2014 1:05:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/29/14	10/29/14 20:46	MGC	MS-V5	1	BXJ2654

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**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425550-13	<b>Client Sample Name:</b> JPL-GW, MW-24-2, 10/28/2014 1:05:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	5.4	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	11/11/14	11/12/14 02:42	OLH	IC6	1	BXK1032

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**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425550-13	<b>Client Sample Name:</b> JPL-GW, MW-24-2, 10/28/2014 1:05:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0019	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	2.6	ug/L	3.0	0.50	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	10/28/14	10/28/14	23:08	BMW	KONE-1	1	BXJ2610
2	EPA-200.8	11/14/14	11/14/14	17:20	EAR	PE-EL2	1	BXK1216

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Powell, OH 43065

Reported: 11/17/2014 15:42  
Project: JPL- GW Monitoring Wells  
Project Number: 4TH Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425550-14	<b>Client Sample Name:</b> JPL-GW, MW-24-1, 10/28/2014 1:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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
<b>Carbon tetrachloride</b>	<b>0.30</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.18</b>	<b>EPA-524.2</b>	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
<b>Chloroform</b>	<b>1.8</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	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: 11/17/2014 15:42  
Project: JPL- GW Monitoring Wells  
Project Number: 4TH Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

**BCL Sample ID:** 1425550-14      **Client Sample Name:** JPL-GW, MW-24-1, 10/28/2014 1:40:00PM, 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
<b>Tetrachloroethene</b>	<b>0.60</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.13</b>	<b>EPA-524.2</b>	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: 11/17/2014 15:42  
Project: JPL- GW Monitoring Wells  
Project Number: 4TH Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425550-14	<b>Client Sample Name:</b> JPL-GW, MW-24-1, 10/28/2014 1:40:00PM, 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	V11	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	V11	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)	101	%	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	10/29/14	10/29/14 21:09	MGC	MS-V5	1	BXJ2654

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Powell, OH 43065

**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425550-14	<b>Client Sample Name:</b> JPL-GW, MW-24-1, 10/28/2014 1:40:00PM, 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	10/29/14	10/29/14 21:09	MGC	MS-V5	1	BXJ2654

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**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425550-14	<b>Client Sample Name:</b> JPL-GW, MW-24-1, 10/28/2014 1:40:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride	83	mg/L	0.50	0.067	EPA-300.0	0.11		1
Nitrate as N	1.5	mg/L	0.10	0.025	EPA-300.0	ND		1
Sulfate	44	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	140	ug/L	40	4.5	EPA-314.0	ND	A01	3
ortho-Phosphate as P	0.011	mg/L	0.020	0.0057	EPA-365.1	ND	J	4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	10/28/14	10/29/14 00:30	OLH	IC2	1	BXJ2665
2	EPA-353.2	10/29/14	10/29/14 08:36	TDC	KONE-1	1	BXJ2612
3	EPA-314.0	11/11/14	11/12/14 11:46	OLH	IC6	10	BXK1032
4	EPA-365.1	10/29/14	10/29/14 08:14	TDC	KONE-1	1	BXJ2613

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**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425550-14	<b>Client Sample Name:</b> JPL-GW, MW-24-1, 10/28/2014 1:40:00PM, 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
<b>Total Recoverable Chromium</b>	<b>4.7</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	10/28/14	10/28/14	23:08	BMW	KONE-1	1	BXJ2610
2	EPA-200.8	11/14/14	11/14/14	17:23	EAR	PE-EL2	1	BXK1216

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Powell, OH 43065

Reported: 11/17/2014 15:42  
Project: JPL- GW Monitoring Wells  
Project Number: 4TH Quarter  
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
<b>QC Batch ID: BXJ2654</b>						
Benzene	BXJ2654-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXJ2654-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXJ2654-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXJ2654-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXJ2654-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXJ2654-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXJ2654-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXJ2654-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXJ2654-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXJ2654-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXJ2654-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXJ2654-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXJ2654-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXJ2654-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXJ2654-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXJ2654-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BXJ2654-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXJ2654-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXJ2654-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXJ2654-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXJ2654-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXJ2654-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXJ2654-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXJ2654-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXJ2654-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXJ2654-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXJ2654-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXJ2654-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXJ2654-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXJ2654-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXJ2654-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXJ2654-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXJ2654-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXJ2654-BLK1	ND	ug/L	0.50	0.14	

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Powell, OH 43065

Reported: 11/17/2014 15:42  
Project: JPL- GW Monitoring Wells  
Project Number: 4TH Quarter  
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
<b>QC Batch ID: BXJ2654</b>						
trans-1,3-Dichloropropene	BXJ2654-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXJ2654-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXJ2654-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXJ2654-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXJ2654-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXJ2654-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXJ2654-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXJ2654-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXJ2654-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXJ2654-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXJ2654-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BXJ2654-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BXJ2654-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXJ2654-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXJ2654-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXJ2654-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BXJ2654-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXJ2654-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXJ2654-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXJ2654-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXJ2654-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXJ2654-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXJ2654-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXJ2654-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXJ2654-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXJ2654-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXJ2654-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXJ2654-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXJ2654-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXJ2654-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXJ2654-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXJ2654-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXJ2654-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXJ2654-BLK1	ND	ug/L	4.0	0.97	

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**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**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
<b>QC Batch ID: BXJ2654</b>						
Ethyl t-butyl ether	BXJ2654-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXJ2654-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXJ2654-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXJ2654-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXJ2654-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXJ2654-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXJ2654-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXJ2654-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXJ2654-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXJ2654-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXJ2654-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXJ2654-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXJ2654-BLK1	ND	ug/L	0.50	0.082	
<b>1,2-Dichloroethane-d4 (Surrogate)</b>	<b>BXJ2654-BLK1</b>	<b>95.2</b>	<b>%</b>	<b>75 - 125 (LCL - UCL)</b>		
<b>Toluene-d8 (Surrogate)</b>	<b>BXJ2654-BLK1</b>	<b>99.8</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		
<b>4-Bromofluorobenzene (Surrogate)</b>	<b>BXJ2654-BLK1</b>	<b>95.5</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		

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**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
<b>QC Batch ID: BXJ2654</b>										
Benzene	BXJ2654-BS1	LCS	25.900	25.000	ug/L	104		70 - 130		
Bromodichloromethane	BXJ2654-BS1	LCS	26.210	25.000	ug/L	105		70 - 130		
Chlorobenzene	BXJ2654-BS1	LCS	26.860	25.000	ug/L	107		70 - 130		
Chloroethane	BXJ2654-BS1	LCS	28.200	25.000	ug/L	113		70 - 130		
1,4-Dichlorobenzene	BXJ2654-BS1	LCS	28.050	25.000	ug/L	112		70 - 130		
1,1-Dichloroethane	BXJ2654-BS1	LCS	25.600	25.000	ug/L	102		70 - 130		
1,1-Dichloroethene	BXJ2654-BS1	LCS	25.600	25.000	ug/L	102		70 - 130		
Toluene	BXJ2654-BS1	LCS	26.770	25.000	ug/L	107		70 - 130		
Trichloroethene	BXJ2654-BS1	LCS	26.890	25.000	ug/L	108		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXJ2654-BS1	LCS	9.8200	10.000	ug/L	98.2		75 - 125		
Toluene-d8 (Surrogate)	BXJ2654-BS1	LCS	10.060	10.000	ug/L	101		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXJ2654-BS1	LCS	10.510	10.000	ug/L	105		80 - 120		

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Reported: 11/17/2014 15:42  
Project: JPL- GW Monitoring Wells  
Project Number: 4TH Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: BXJ2654</b>		Used client sample: Y - Description: SB-3-10/28/14, 10/28/2014 07:00								
Benzene	MS	1425550-02	ND	24.460	25.000	ug/L		97.8		70 - 130
	MSD	1425550-02	ND	24.350	25.000	ug/L	0.5	97.4	20	70 - 130
Bromodichloromethane	MS	1425550-02	ND	24.710	25.000	ug/L		98.8		70 - 130
	MSD	1425550-02	ND	24.630	25.000	ug/L	0.3	98.5	20	70 - 130
Chlorobenzene	MS	1425550-02	ND	24.600	25.000	ug/L		98.4		70 - 130
	MSD	1425550-02	ND	24.450	25.000	ug/L	0.6	97.8	20	70 - 130
Chloroethane	MS	1425550-02	ND	26.700	25.000	ug/L		107		70 - 130
	MSD	1425550-02	ND	26.540	25.000	ug/L	0.6	106	20	70 - 130
1,4-Dichlorobenzene	MS	1425550-02	ND	26.170	25.000	ug/L		105		70 - 130
	MSD	1425550-02	ND	26.160	25.000	ug/L	0.0	105	20	70 - 130
1,1-Dichloroethane	MS	1425550-02	ND	23.440	25.000	ug/L		93.8		70 - 130
	MSD	1425550-02	ND	22.900	25.000	ug/L	2.3	91.6	20	70 - 130
1,1-Dichloroethene	MS	1425550-02	ND	23.620	25.000	ug/L		94.5		70 - 130
	MSD	1425550-02	ND	23.580	25.000	ug/L	0.2	94.3	20	70 - 130
Toluene	MS	1425550-02	ND	25.350	25.000	ug/L		101		70 - 130
	MSD	1425550-02	ND	24.810	25.000	ug/L	2.2	99.2	20	70 - 130
Trichloroethene	MS	1425550-02	ND	24.620	25.000	ug/L		98.5		70 - 130
	MSD	1425550-02	ND	24.120	25.000	ug/L	2.1	96.5	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1425550-02	ND	9.4400	10.000	ug/L		94.4		75 - 125
	MSD	1425550-02	ND	9.8200	10.000	ug/L	3.9	98.2		75 - 125
Toluene-d8 (Surrogate)	MS	1425550-02	ND	10.270	10.000	ug/L		103		80 - 120
	MSD	1425550-02	ND	10.140	10.000	ug/L	1.3	101		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1425550-02	ND	10.440	10.000	ug/L		104		80 - 120
	MSD	1425550-02	ND	10.310	10.000	ug/L	1.3	103		80 - 120

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**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**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
<b>QC Batch ID: BXJ2654</b>						
Chloroacetonitrile	BXJ2654-BLK1	0	ug/L			
1-Chlorobutane	BXJ2654-BLK1	0	ug/L			
1,1-Dichloropropanone	BXJ2654-BLK1	0	ug/L			
Methyl acrylate	BXJ2654-BLK1	0	ug/L			
Nitrobenzene	BXJ2654-BLK1	0	ug/L			
2-Nitropropane	BXJ2654-BLK1	0	ug/L			

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**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**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
<b>QC Batch ID: BXJ2612</b>						
Nitrite as N	BXJ2612-BLK1	ND	mg/L	0.050	0.010	
<b>QC Batch ID: BXJ2613</b>						
ortho-Phosphate as P	BXJ2613-BLK1	ND	mg/L	0.020	0.0057	
<b>QC Batch ID: BXJ2665</b>						
Chloride	BXJ2665-BLK1	0.10700	mg/L	0.50	0.067	J
Nitrate as N	BXJ2665-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXJ2665-BLK1	ND	mg/L	1.0	0.18	
<b>QC Batch ID: BXK1031</b>						
Perchlorate	BXK1031-BLK1	ND	ug/L	4.0	0.45	
<b>QC Batch ID: BXK1032</b>						
Perchlorate	BXK1032-BLK1	ND	ug/L	4.0	0.45	

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**Project Manager:** David Conner

### Water Analysis (General Chemistry)

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
<b>QC Batch ID: BXJ2612</b>										
Nitrite as N	BXJ2612-BS1	LCS	0.53252	0.50000	mg/L	107		90 - 110		
<b>QC Batch ID: BXJ2613</b>										
ortho-Phosphate as P	BXJ2613-BS1	LCS	0.20063	0.20000	mg/L	100		90 - 110		
<b>QC Batch ID: BXJ2665</b>										
Chloride	BXJ2665-BS1	LCS	51.902	50.000	mg/L	104		90 - 110		
Nitrate as N	BXJ2665-BS1	LCS	5.0780	5.0000	mg/L	102		90 - 110		
Sulfate	BXJ2665-BS1	LCS	103.32	100.00	mg/L	103		90 - 110		
<b>QC Batch ID: BXK1031</b>										
Perchlorate	BXK1031-BS1	LCS	9.6824	10.000	ug/L	96.8		85 - 115		
<b>QC Batch ID: BXK1032</b>										
Perchlorate	BXK1032-BS1	LCS	8.8798	10.000	ug/L	88.8		85 - 115		

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Project Manager: David Conner

### Water Analysis (General Chemistry)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
<b>QC Batch ID: BXJ2612</b>		Used client sample: N								
Nitrite as N	DUP	1425568-01	0.010151	ND		mg/L			10	
	MS	1425568-01	0.010151	0.54621	0.52632	mg/L		102		90 - 110
	MSD	1425568-01	0.010151	0.54569	0.52632	mg/L	0.1	102	10	90 - 110
<b>QC Batch ID: BXJ2613</b>		Used client sample: N								
ortho-Phosphate as P	DUP	1425568-01	0.035916	0.034353		mg/L	4.4		10	
	MS	1425568-01	0.035916	0.25225	0.21053	mg/L		103		90 - 110
	MSD	1425568-01	0.035916	0.24738	0.21053	mg/L	1.9	100	10	90 - 110
<b>QC Batch ID: BXJ2665</b>		Used client sample: N								
Chloride	DUP	1425541-01	78.855	78.970		mg/L	0.1		10	
	MS	1425541-01	78.855	130.85	50.505	mg/L		103		80 - 120
	MSD	1425541-01	78.855	130.85	50.505	mg/L	0	103	10	80 - 120
Nitrate as N	DUP	1425541-01	9.5090	9.4940		mg/L	0.2		10	
	MS	1425541-01	9.5090	14.546	5.0505	mg/L		99.7		80 - 120
	MSD	1425541-01	9.5090	14.571	5.0505	mg/L	0.2	100	10	80 - 120
Sulfate	DUP	1425541-01	117.37	117.24		mg/L	0.1		10	
	MS	1425541-01	117.37	223.38	101.01	mg/L		105		80 - 120
	MSD	1425541-01	117.37	222.96	101.01	mg/L	0.2	105	10	80 - 120
<b>QC Batch ID: BXK1031</b>		Used client sample: Y - Description: SB-3-10/28/14, 10/28/2014 07:00								
Perchlorate	DUP	1425550-02	ND	ND		ug/L			15	
	MS	1425550-02	ND	9.1884	10.101	ug/L		91.0		80 - 120
	MSD	1425550-02	ND	9.5280	10.101	ug/L	3.6	94.3	15	80 - 120
<b>QC Batch ID: BXK1032</b>		Used client sample: Y - Description: DUP-8-4Q14, 10/28/2014 11:25								
Perchlorate	DUP	1425550-11	ND	ND		ug/L			15	
	MS	1425550-11	ND	9.0643	10.101	ug/L		89.7		80 - 120
	MSD	1425550-11	ND	9.1139	10.101	ug/L	0.5	90.2	15	80 - 120

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### Metals Analysis

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: BXJ2608</b>						
Hexavalent Chromium	BXJ2608-BLK1	ND	mg/L	0.0020	0.00070	
<b>QC Batch ID: BXJ2610</b>						
Hexavalent Chromium	BXJ2610-BLK1	ND	mg/L	0.0020	0.00070	
<b>QC Batch ID: BXK1107</b>						
Total Recoverable Chromium	BXK1107-BLK1	ND	ug/L	3.0	0.50	
<b>QC Batch ID: BXK1216</b>						
Total Recoverable Chromium	BXK1216-BLK1	ND	ug/L	3.0	0.50	

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**Project Manager:** David Conner

### Metals Analysis

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: BXJ2608</b>										
Hexavalent Chromium	BXJ2608-BS1	LCS	0.050717	0.050000	mg/L	101		85	115	
<b>QC Batch ID: BXJ2610</b>										
Hexavalent Chromium	BXJ2610-BS1	LCS	0.049956	0.050000	mg/L	99.9		85	115	
<b>QC Batch ID: BXK1107</b>										
Total Recoverable Chromium	BXK1107-BS1	LCS	42.476	40.000	ug/L	106		85	115	
<b>QC Batch ID: BXK1216</b>										
Total Recoverable Chromium	BXK1216-BS1	LCS	42.983	40.000	ug/L	107		85	115	

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

Reported: 11/17/2014 15:42  
Project: JPL- GW Monitoring Wells  
Project Number: 4TH Quarter  
Project Manager: David Conner

### Metals Analysis

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
<b>QC Batch ID: BXJ2608</b>		Used client sample: Y - Description: SB-3-10/28/14, 10/28/2014 07:00								
Hexavalent Chromium	DUP	1425550-02	ND	ND		mg/L			10	
	MS	1425550-02	ND	0.053376	0.052632	mg/L		101		85 - 115
	MSD	1425550-02	ND	0.053303	0.052632	mg/L	0.1	101	10	85 - 115
<b>QC Batch ID: BXJ2610</b>		Used client sample: Y - Description: MW-24-3, 10/28/2014 12:00								
Hexavalent Chromium	DUP	1425550-12	ND	ND		mg/L			10	
	MS	1425550-12	ND	0.040500	0.052632	mg/L		77.0		85 - 115 Q03
	MSD	1425550-12	ND	0.040184	0.052632	mg/L	0.8	76.4	10	85 - 115 Q03
<b>QC Batch ID: BXK1107</b>		Used client sample: Y - Description: SB-3-10/28/14, 10/28/2014 07:00								
Total Recoverable Chromium	DUP	1425550-02	ND	ND		ug/L			20	
	MS	1425550-02	ND	42.610	40.000	ug/L		107		70 - 130
	MSD	1425550-02	ND	41.979	40.000	ug/L	1.5	105	20	70 - 130
<b>QC Batch ID: BXK1216</b>		Used client sample: N								
Total Recoverable Chromium	DUP	1425517-01	8.0420	7.8290		ug/L	2.7		20	
	MS	1425517-01	8.0420	47.228	40.000	ug/L		98.0		70 - 130
	MSD	1425517-01	8.0420	47.501	40.000	ug/L	0.6	98.6	20	70 - 130

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/17/2014 15:42  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4TH Quarter  
**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.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.



Date of Report: 11/18/2014

David Conner

Tidewater Inc.

3761 Attucks Drive

Powell, OH 43065

Client Project: 4th Quarter

BCL Project: JPL- GW Monitoring Wells

BCL Work Order: 1425655

Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 10/29/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton  
Client Service Rep

Authorized Signature

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

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Chain of Custody Form

Page 1 of 1

**Report To:** Tidewater, Inc.  
**Client:** Tidewater, Inc. (P.O. #1213-000-02)  
**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@tdih2o.net  
**Submission #:** 14-25055

**Project Description:** JPL-GW Monitoring  
**Project Code:** 4th Quarter  
**Sampler (s):** Blaine Tech

**Analysis Requested**

Sample #	Sample Description	Date	Time	Matrix*	VOCs EPA 524.2	Total Cr (200.8)	Perchlorate (EPA 314.0)	Chloride, Nitrate, Sulfate (300)	Orthophosphate (365.1)	Nitrite (353.2)	Hexavalent Cr (7196)
-1	TB-8-10/24/14	10-29-14	0800	ALP	X	X	X	X	X	X	X
-2	MW-13		0930		X	X	X	X	X	X	X
-3	MW-1		1144		X	X	X	X	X	X	X
-4	MW-9		1246		X	X	X	X	X	X	X
-5	MW-15		1430		X	X	X	X	X	X	X

**Billing**  
**Client:** Tidewater, Inc. (P.O. #1213-000-02)  
**Attn:** As directed by Ben Headington  
**Address:** 6625 Seimick Drive, Suite A  
**City:** Elkridge State: MD Zip: 21035  
 Are there any tests with holding times?  
 Yes  No  
 \*Standard Turnaround = 10

**Notes**  
 MS/MSD  
 MS/MSD  
 SHORT HOEING TIME  
 C16 NO2 NO3 OP SS  
 DO Cl2 BOB MBAS GOT  
 CHECK BY: [Signature]  
 SUBSTITUTION  
 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  Normal (10 - Days)  
 3-5 Day Rush  Additional Charges May Apply

**Lab TAT Approval:**

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

**Cost Center:**  
 1. Relinquished By: [Signature] Date: 10-29-14 Time: 1620  
 2. Relinquished By: [Signature] Date: 10-29-14 Time: 1530  
 3. Relinquished By: [Signature] Date: 10-29-14 Time: 1530

**Global ID:** [Signature] Date: 10-29-14 Time: 1620  
 1. Received By: [Signature] Date: 10-29-14 Time: 1530  
 2. Received By: [Signature] Date: 10-29-14 Time: 1530  
 3. Received By: [Signature] Date: 10-29-14 Time: 1530

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

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 of 1

Submission #: 14-25655

**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  Containers  None  Comments: \_\_\_\_\_  
 Intact? Yes  No  Intact? Yes  No

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

**COC Received**  
 YES  NO

Emissivity: 0.98 Container: PB Thermometer ID: 207 Date/Time: 10-29-14 1950  
 Temperature: (A) 0.5 °C / (C) 0.1 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL		JK	D	D	J					
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS			E	E	K					
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE /NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A									
40ml VOA VIAL		A-1	ABC	ABC	A-1					
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										
40ml EPA 547										
40ml EPA 531.1										
8oz Amber 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: 10-29-14 205 (S:\WPDoc\WordPerfect\LAB\_DOCS\FORMS\SAMREC)  
 A = Actual / C = Corrected



Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/18/2014 14:53  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

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

<b>1425655-01</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> TB-8-10/29/14 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/29/2014 19:50 <b>Sampling Date:</b> 10/29/2014 08:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-8-10/29/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

<b>1425655-02</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-13 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/29/2014 19:50 <b>Sampling Date:</b> 10/29/2014 09:28 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-13 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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<b>1425655-03</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-1 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/29/2014 19:50 <b>Sampling Date:</b> 10/29/2014 11:44 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/18/2014 14:53  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

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

<b>1425655-04</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-9 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/29/2014 19:50 <b>Sampling Date:</b> 10/29/2014 12:46 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-9 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

<b>1425655-05</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-15 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/29/2014 19:50 <b>Sampling Date:</b> 10/29/2014 14:30 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-15 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Powell, OH 43065

Reported: 11/18/2014 14:53  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1425655-01 Client Sample Name: JPL-GW, TB-8-10/29/14, 10/29/2014 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	V11	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: 11/18/2014 14:53  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425655-01	<b>Client Sample Name:</b> JPL-GW, TB-8-10/29/14, 10/29/2014 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	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:** 11/18/2014 14:53  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425655-01	<b>Client Sample Name:</b> JPL-GW, TB-8-10/29/14, 10/29/2014 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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	V11	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)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/30/14	10/30/14 11:52	MGC	MS-V5	1	BXJ2735

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/18/2014 14:53  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425655-01	<b>Client Sample Name:</b> JPL-GW, TB-8-10/29/14, 10/29/2014 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/30/14	10/30/14 11:52	MGC	MS-V5	1	BXJ2735

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

Reported: 11/18/2014 14:53  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425655-02	<b>Client Sample Name:</b> JPL-GW, MW-13, 10/29/2014 9:28:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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
<b>Chloroform</b>	<b>1.1</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	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
<b>1,1-Dichloroethane</b>	<b>0.28</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.11</b>	<b>EPA-524.2</b>	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: 11/18/2014 14:53  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425655-02	<b>Client Sample Name:</b> JPL-GW, MW-13, 10/29/2014 9:28:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Tetrachloroethene</b>	<b>1.3</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.13</b>	<b>EPA-524.2</b>	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
<b>Trichloroethene</b>	<b>0.20</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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:** 11/18/2014 14:53  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425655-02	<b>Client Sample Name:</b> JPL-GW, MW-13, 10/29/2014 9:28:00AM, 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	V11	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	V11	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)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.4	%	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	10/30/14	10/30/14 09:36	MGC	MS-V5	1	BXJ2735

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/18/2014 14:53  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425655-02	<b>Client Sample Name:</b> JPL-GW, MW-13, 10/29/2014 9:28:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/30/14	10/30/14 09:36	MGC	MS-V5	1	BXJ2735

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/18/2014 14:53  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425655-02	<b>Client Sample Name:</b> JPL-GW, MW-13, 10/29/2014 9:28:00AM, Blaine Tech
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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	9.2	mg/L	0.10	0.025	EPA-300.0	ND		1
Sulfate	140	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	0.011	mg/L	0.020	0.0057	EPA-365.1	ND	J	4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	10/30/14	10/30/14 14:04	OLH	IC2	1	BXJ2878
2	EPA-353.2	10/30/14	10/30/14 08:55	TDC	KONE-1	1	BXJ2790
3	EPA-314.0	11/14/14	11/14/14 14:53	LD1	IC6	10	BXK1303
4	EPA-365.1	10/30/14	10/30/14 10:50	TDC	KONE-1	1	BXK0009

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

Reported: 11/18/2014 14:53  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425655-03	<b>Client Sample Name:</b> JPL-GW, MW-1, 10/29/2014 11:44:00AM, 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	V11	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: 11/18/2014 14:53  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425655-03	<b>Client Sample Name:</b> JPL-GW, MW-1, 10/29/2014 11:44:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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:** 11/18/2014 14:53  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425655-03	<b>Client Sample Name:</b> JPL-GW, MW-1, 10/29/2014 11:44:00AM, 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	V11	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	V11	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)	95.5	%	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	10/30/14	10/30/14 12:15	MGC	MS-V5	1	BXJ2735

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Powell, OH 43065

**Reported:** 11/18/2014 14:53  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425655-03	<b>Client Sample Name:</b> JPL-GW, MW-1, 10/29/2014 11:44:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/30/14	10/30/14 12:15	MGC	MS-V5	1	BXJ2735

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**Reported:** 11/18/2014 14:53  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425655-03	<b>Client Sample Name:</b> JPL-GW, MW-1, 10/29/2014 11:44:00AM, Blaine Tech
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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	11/14/14	11/14/14 16:07	BMW	IC6	1	BXK1303

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**Reported:** 11/18/2014 14:53  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425655-03	<b>Client Sample Name:</b> JPL-GW, MW-1, 10/29/2014 11:44:00AM, 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
<b>Total Recoverable Chromium</b>	<b>0.59</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	10/30/14	10/30/14 00:41	BMW	KONE-1	1	BXJ2785
2	EPA-200.8	11/14/14	11/17/14 12:38	EAR	PE-EL2	1	BXK1223

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Reported: 11/18/2014 14:53  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425655-04	<b>Client Sample Name:</b> JPL-GW, MW-9, 10/29/2014 12:46:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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: 11/18/2014 14:53  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425655-04	<b>Client Sample Name:</b> JPL-GW, MW-9, 10/29/2014 12:46:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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: 11/18/2014 14:53  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425655-04	<b>Client Sample Name:</b> JPL-GW, MW-9, 10/29/2014 12:46:00PM, 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	V11	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	V11	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)	94.8	%	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	10/30/14	10/30/14 12:37	MGC	MS-V5	1	BXJ2735

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Powell, OH 43065

**Reported:** 11/18/2014 14:53  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425655-04	<b>Client Sample Name:</b> JPL-GW, MW-9, 10/29/2014 12:46:00PM, 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	10/30/14	10/30/14 12:37	MGC	MS-V5	1	BXJ2735

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**Reported:** 11/18/2014 14:53  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425655-04	<b>Client Sample Name:</b> JPL-GW, MW-9, 10/29/2014 12:46:00PM, 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	11/14/14	11/14/14 16:20	BMW	IC6	1	BXK1303

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Powell, OH 43065

**Reported:** 11/18/2014 14:53  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425655-04	<b>Client Sample Name:</b> JPL-GW, MW-9, 10/29/2014 12:46:00PM, 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
<b>Total Recoverable Chromium</b>	<b>3.0</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	10/30/14	10/30/14 00:41	BMW	KONE-1	1	BXJ2785
2	EPA-200.8	11/14/14	11/17/14 12:42	EAR	PE-EL2	1	BXK1223

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

Reported: 11/18/2014 14:53  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425655-05	<b>Client Sample Name:</b> JPL-GW, MW-15, 10/29/2014 2:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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: 11/18/2014 14:53  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425655-05	<b>Client Sample Name:</b> JPL-GW, MW-15, 10/29/2014 2:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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:** 11/18/2014 14:53  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425655-05	<b>Client Sample Name:</b> JPL-GW, MW-15, 10/29/2014 2:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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	V11	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)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	85.0	%	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	10/30/14	10/31/14 00:44	MGC	MS-V5	1	BXJ2736

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Powell, OH 43065

**Reported:** 11/18/2014 14:53  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425655-05	<b>Client Sample Name:</b> JPL-GW, MW-15, 10/29/2014 2:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/30/14	10/31/14 00:44	MGC	MS-V5	1	BXJ2736

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Powell, OH 43065

**Reported:** 11/18/2014 14:53  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425655-05	<b>Client Sample Name:</b> JPL-GW, MW-15, 10/29/2014 2:30:00PM, Blaine Tech
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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	11/14/14	11/14/14 16:57	BMW	IC6	1	BXK1304

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**Reported:** 11/18/2014 14:53  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425655-05	<b>Client Sample Name:</b> JPL-GW, MW-15, 10/29/2014 2:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
<b>Total Recoverable Chromium</b>	<b>0.82</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	ND	J	2

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-7196	10/30/14	10/30/14 00:41	BMW	KONE-1	1	BXJ2785
2	EPA-200.8	11/14/14	11/17/14 11:50	EAR	PE-EL2	1	BXK1223

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Reported: 11/18/2014 14:53  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
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
<b>QC Batch ID: BXJ2735</b>						
Benzene	BXJ2735-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXJ2735-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXJ2735-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXJ2735-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXJ2735-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXJ2735-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXJ2735-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXJ2735-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXJ2735-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXJ2735-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXJ2735-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXJ2735-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXJ2735-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXJ2735-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXJ2735-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXJ2735-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BXJ2735-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXJ2735-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXJ2735-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXJ2735-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXJ2735-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXJ2735-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXJ2735-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXJ2735-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXJ2735-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXJ2735-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXJ2735-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXJ2735-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXJ2735-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXJ2735-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXJ2735-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXJ2735-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXJ2735-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXJ2735-BLK1	ND	ug/L	0.50	0.14	

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Powell, OH 43065

Reported: 11/18/2014 14:53  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
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
<b>QC Batch ID: BXJ2735</b>						
trans-1,3-Dichloropropene	BXJ2735-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXJ2735-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXJ2735-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXJ2735-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXJ2735-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXJ2735-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXJ2735-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXJ2735-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXJ2735-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXJ2735-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXJ2735-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BXJ2735-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethane	BXJ2735-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXJ2735-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXJ2735-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXJ2735-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BXJ2735-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXJ2735-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXJ2735-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXJ2735-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXJ2735-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXJ2735-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXJ2735-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXJ2735-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXJ2735-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXJ2735-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXJ2735-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXJ2735-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXJ2735-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXJ2735-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXJ2735-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXJ2735-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXJ2735-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXJ2735-BLK1	ND	ug/L	4.0	0.97	

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Powell, OH 43065

Reported: 11/18/2014 14:53  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
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**QC Batch ID: BXJ2735**

Ethyl t-butyl ether	BXJ2735-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXJ2735-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXJ2735-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXJ2735-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXJ2735-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXJ2735-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXJ2735-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXJ2735-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXJ2735-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXJ2735-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXJ2735-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXJ2735-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXJ2735-BLK1	ND	ug/L	0.50	0.082	
<b>1,2-Dichloroethane-d4 (Surrogate)</b>	<b>BXJ2735-BLK1</b>	<b>101</b>	<b>%</b>	<b>75 - 125 (LCL - UCL)</b>		
<b>Toluene-d8 (Surrogate)</b>	<b>BXJ2735-BLK1</b>	<b>102</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		
<b>4-Bromofluorobenzene (Surrogate)</b>	<b>BXJ2735-BLK1</b>	<b>95.5</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		

**QC Batch ID: BXJ2736**

Benzene	BXJ2736-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXJ2736-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXJ2736-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXJ2736-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXJ2736-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXJ2736-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXJ2736-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXJ2736-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXJ2736-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXJ2736-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXJ2736-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXJ2736-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXJ2736-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXJ2736-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXJ2736-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXJ2736-BLK1	ND	ug/L	0.50	0.15	

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

Reported: 11/18/2014 14:53  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
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
<b>QC Batch ID: BXJ2736</b>						
Dibromochloromethane	BXJ2736-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXJ2736-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXJ2736-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXJ2736-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXJ2736-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXJ2736-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXJ2736-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXJ2736-BLK1	ND	ug/L	0.50	0.099	
1,1,1-Dichloroethane	BXJ2736-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXJ2736-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXJ2736-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXJ2736-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXJ2736-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXJ2736-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXJ2736-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXJ2736-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXJ2736-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXJ2736-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	BXJ2736-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXJ2736-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXJ2736-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXJ2736-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXJ2736-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXJ2736-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXJ2736-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXJ2736-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXJ2736-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXJ2736-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXJ2736-BLK1	ND	ug/L	0.50	0.18	
1,1,1,2,2-Tetrachloroethane	BXJ2736-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BXJ2736-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXJ2736-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXJ2736-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXJ2736-BLK1	ND	ug/L	0.50	0.19	

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3761 Attucks Drive  
Powell, OH 43065

Reported: 11/18/2014 14:53  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
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
<b>QC Batch ID: BXJ2736</b>						
1,1,1-Trichloroethane	BXJ2736-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXJ2736-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXJ2736-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXJ2736-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXJ2736-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXJ2736-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXJ2736-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXJ2736-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXJ2736-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXJ2736-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXJ2736-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXJ2736-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXJ2736-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXJ2736-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXJ2736-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXJ2736-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXJ2736-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXJ2736-BLK1	ND	ug/L	4.0	0.97	
Ethyl t-butyl ether	BXJ2736-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXJ2736-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXJ2736-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXJ2736-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXJ2736-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXJ2736-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXJ2736-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXJ2736-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXJ2736-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXJ2736-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXJ2736-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXJ2736-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXJ2736-BLK1	ND	ug/L	0.50	0.082	
<b>1,2-Dichloroethane-d4 (Surrogate)</b>	<b>BXJ2736-BLK1</b>	<b>103</b>	<b>%</b>	<b>75 - 125 (LCL - UCL)</b>		
<b>Toluene-d8 (Surrogate)</b>	<b>BXJ2736-BLK1</b>	<b>102</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		
<b>4-Bromofluorobenzene (Surrogate)</b>	<b>BXJ2736-BLK1</b>	<b>91.0</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		

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3761 Attucks Drive  
Powell, OH 43065

Reported: 11/18/2014 14:53  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: BXJ2735</b>										
Benzene	BXJ2735-BS1	LCS	24.660	25.000	ug/L	98.6		70 - 130		
Bromodichloromethane	BXJ2735-BS1	LCS	24.970	25.000	ug/L	99.9		70 - 130		
Chlorobenzene	BXJ2735-BS1	LCS	25.190	25.000	ug/L	101		70 - 130		
Chloroethane	BXJ2735-BS1	LCS	25.550	25.000	ug/L	102		70 - 130		
1,4-Dichlorobenzene	BXJ2735-BS1	LCS	26.430	25.000	ug/L	106		70 - 130		
1,1-Dichloroethane	BXJ2735-BS1	LCS	23.620	25.000	ug/L	94.5		70 - 130		
1,1-Dichloroethene	BXJ2735-BS1	LCS	23.890	25.000	ug/L	95.6		70 - 130		
Toluene	BXJ2735-BS1	LCS	25.680	25.000	ug/L	103		70 - 130		
Trichloroethene	BXJ2735-BS1	LCS	24.750	25.000	ug/L	99.0		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXJ2735-BS1	LCS	9.6200	10.000	ug/L	96.2		75 - 125		
Toluene-d8 (Surrogate)	BXJ2735-BS1	LCS	10.350	10.000	ug/L	104		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXJ2735-BS1	LCS	10.380	10.000	ug/L	104		80 - 120		

<b>QC Batch ID: BXJ2736</b>										
Benzene	BXJ2736-BS1	LCS	25.400	25.000	ug/L	102		70 - 130		
Bromodichloromethane	BXJ2736-BS1	LCS	27.150	25.000	ug/L	109		70 - 130		
Chlorobenzene	BXJ2736-BS1	LCS	25.220	25.000	ug/L	101		70 - 130		
Chloroethane	BXJ2736-BS1	LCS	27.390	25.000	ug/L	110		70 - 130		
1,4-Dichlorobenzene	BXJ2736-BS1	LCS	26.540	25.000	ug/L	106		70 - 130		
1,1-Dichloroethane	BXJ2736-BS1	LCS	25.420	25.000	ug/L	102		70 - 130		
1,1-Dichloroethene	BXJ2736-BS1	LCS	26.400	25.000	ug/L	106		70 - 130		
Toluene	BXJ2736-BS1	LCS	26.100	25.000	ug/L	104		70 - 130		
Trichloroethene	BXJ2736-BS1	LCS	31.310	25.000	ug/L	125		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXJ2736-BS1	LCS	10.070	10.000	ug/L	101		75 - 125		
Toluene-d8 (Surrogate)	BXJ2736-BS1	LCS	10.260	10.000	ug/L	103		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXJ2736-BS1	LCS	10.390	10.000	ug/L	104		80 - 120		

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Powell, OH 43065

Reported: 11/18/2014 14:53  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
<b>QC Batch ID: BXJ2735</b>		Used client sample: Y - Description: MW-13, 10/29/2014 09:28								
Benzene	MS	1425655-02	ND	26.170	25.000	ug/L		105		70 - 130
	MSD	1425655-02	ND	29.200	25.000	ug/L	10.9	117	20	70 - 130
Bromodichloromethane	MS	1425655-02	ND	26.160	25.000	ug/L		105		70 - 130
	MSD	1425655-02	ND	29.290	25.000	ug/L	11.3	117	20	70 - 130
Chlorobenzene	MS	1425655-02	ND	26.450	25.000	ug/L		106		70 - 130
	MSD	1425655-02	ND	29.440	25.000	ug/L	10.7	118	20	70 - 130
Chloroethane	MS	1425655-02	ND	29.130	25.000	ug/L		117		70 - 130
	MSD	1425655-02	ND	31.240	25.000	ug/L	7.0	125	20	70 - 130
1,4-Dichlorobenzene	MS	1425655-02	ND	29.050	25.000	ug/L		116		70 - 130
	MSD	1425655-02	ND	32.410	25.000	ug/L	10.9	130	20	70 - 130
1,1-Dichloroethane	MS	1425655-02	0.28000	25.620	25.000	ug/L		101		70 - 130
	MSD	1425655-02	0.28000	28.590	25.000	ug/L	11.0	113	20	70 - 130
1,1-Dichloroethene	MS	1425655-02	ND	25.620	25.000	ug/L		102		70 - 130
	MSD	1425655-02	ND	28.120	25.000	ug/L	9.3	112	20	70 - 130
Toluene	MS	1425655-02	ND	27.000	25.000	ug/L		108		70 - 130
	MSD	1425655-02	ND	30.260	25.000	ug/L	11.4	121	20	70 - 130
Trichloroethene	MS	1425655-02	0.20000	26.500	25.000	ug/L		105		70 - 130
	MSD	1425655-02	0.20000	29.590	25.000	ug/L	11.0	118	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1425655-02	ND	9.6000	10.000	ug/L		96.0		75 - 125
	MSD	1425655-02	ND	9.6200	10.000	ug/L	0.2	96.2		75 - 125
Toluene-d8 (Surrogate)	MS	1425655-02	ND	10.080	10.000	ug/L		101		80 - 120
	MSD	1425655-02	ND	10.340	10.000	ug/L	2.5	103		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1425655-02	ND	10.400	10.000	ug/L		104		80 - 120
	MSD	1425655-02	ND	10.680	10.000	ug/L	2.7	107		80 - 120

<b>QC Batch ID: BXJ2736</b>		Used client sample: Y - Description: MW-15, 10/29/2014 14:30								
Benzene	MS	1425655-05	ND	25.000	25.000	ug/L		100		70 - 130
	MSD	1425655-05	ND	26.160	25.000	ug/L	4.5	105	20	70 - 130
Bromodichloromethane	MS	1425655-05	ND	26.900	25.000	ug/L		108		70 - 130
	MSD	1425655-05	ND	27.140	25.000	ug/L	0.9	109	20	70 - 130
Chlorobenzene	MS	1425655-05	ND	24.920	25.000	ug/L		99.7		70 - 130
	MSD	1425655-05	ND	26.100	25.000	ug/L	4.6	104	20	70 - 130
Chloroethane	MS	1425655-05	ND	26.880	25.000	ug/L		108		70 - 130
	MSD	1425655-05	ND	27.870	25.000	ug/L	3.6	111	20	70 - 130
1,4-Dichlorobenzene	MS	1425655-05	ND	26.460	25.000	ug/L		106		70 - 130
	MSD	1425655-05	ND	27.870	25.000	ug/L	5.2	111	20	70 - 130
1,1-Dichloroethane	MS	1425655-05	ND	25.560	25.000	ug/L		102		70 - 130
	MSD	1425655-05	ND	26.010	25.000	ug/L	1.7	104	20	70 - 130

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Powell, OH 43065

Reported: 11/18/2014 14:53  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
<b>QC Batch ID: BXJ2736</b>		Used client sample: Y - Description: MW-15, 10/29/2014 14:30								
1,1-Dichloroethene	MS	1425655-05	ND	25.530	25.000	ug/L		102		70 - 130
	MSD	1425655-05	ND	26.420	25.000	ug/L	3.4	106	20	70 - 130
Toluene	MS	1425655-05	ND	25.290	25.000	ug/L		101		70 - 130
	MSD	1425655-05	ND	25.910	25.000	ug/L	2.4	104	20	70 - 130
Trichloroethene	MS	1425655-05	ND	25.920	25.000	ug/L		104		70 - 130
	MSD	1425655-05	ND	26.650	25.000	ug/L	2.8	107	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1425655-05	ND	10.000	10.000	ug/L		100		75 - 125
	MSD	1425655-05	ND	10.300	10.000	ug/L	3.0	103		75 - 125
Toluene-d8 (Surrogate)	MS	1425655-05	ND	10.090	10.000	ug/L		101		80 - 120
	MSD	1425655-05	ND	10.010	10.000	ug/L	0.8	100		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1425655-05	ND	10.420	10.000	ug/L		104		80 - 120
	MSD	1425655-05	ND	10.600	10.000	ug/L	1.7	106		80 - 120

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Powell, OH 43065

**Reported:** 11/18/2014 14:53  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**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
<b>QC Batch ID: BXJ2735</b>						
Chloroacetonitrile	BXJ2735-BLK1	0	ug/L			
1-Chlorobutane	BXJ2735-BLK1	0	ug/L			
1,1-Dichloropropanone	BXJ2735-BLK1	0	ug/L			
Methyl acrylate	BXJ2735-BLK1	0	ug/L			
Nitrobenzene	BXJ2735-BLK1	0	ug/L			
2-Nitropropane	BXJ2735-BLK1	0	ug/L			
<b>QC Batch ID: BXJ2736</b>						
Chloroacetonitrile	BXJ2736-BLK1	0	ug/L			
1-Chlorobutane	BXJ2736-BLK1	0	ug/L			
1,1-Dichloropropanone	BXJ2736-BLK1	0	ug/L			
Methyl acrylate	BXJ2736-BLK1	0	ug/L			
Nitrobenzene	BXJ2736-BLK1	0	ug/L			
2-Nitropropane	BXJ2736-BLK1	0	ug/L			

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/18/2014 14:53  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**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
<b>QC Batch ID: BXJ2790</b>						
Nitrite as N	BXJ2790-BLK1	ND	mg/L	0.050	0.010	
<b>QC Batch ID: BXJ2878</b>						
Chloride	BXJ2878-BLK1	ND	mg/L	0.50	0.067	
Nitrate as N	BXJ2878-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXJ2878-BLK1	ND	mg/L	1.0	0.18	
<b>QC Batch ID: BXK0009</b>						
ortho-Phosphate as P	BXK0009-BLK1	ND	mg/L	0.020	0.0057	
<b>QC Batch ID: BXK1303</b>						
Perchlorate	BXK1303-BLK1	ND	ug/L	4.0	0.45	
<b>QC Batch ID: BXK1304</b>						
Perchlorate	BXK1304-BLK1	ND	ug/L	4.0	0.45	

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/18/2014 14:53  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: BXJ2790</b>										
Nitrite as N	BXJ2790-BS1	LCS	0.51332	0.50000	mg/L	103		90 - 110		
<b>QC Batch ID: BXJ2878</b>										
Chloride	BXJ2878-BS1	LCS	50.348	50.000	mg/L	101		90 - 110		
Nitrate as N	BXJ2878-BS1	LCS	4.8480	5.0000	mg/L	97.0		90 - 110		
Sulfate	BXJ2878-BS1	LCS	100.07	100.00	mg/L	100		90 - 110		
<b>QC Batch ID: BXK0009</b>										
ortho-Phosphate as P	BXK0009-BS1	LCS	0.23430	0.20000	mg/L	117		90 - 110		L02,Z1
<b>QC Batch ID: BXK1303</b>										
Perchlorate	BXK1303-BS1	LCS	9.9395	10.000	ug/L	99.4		85 - 115		
<b>QC Batch ID: BXK1304</b>										
Perchlorate	BXK1304-BS1	LCS	9.9608	10.000	ug/L	99.6		85 - 115		

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

Reported: 11/18/2014 14:53  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Water Analysis (General Chemistry)

### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
<b>QC Batch ID: BXJ2790</b>		Used client sample: Y - Description: MW-13, 10/29/2014 09:28								
Nitrite as N	DUP	1425655-02	ND	ND		mg/L			10	
	MS	1425655-02	ND	0.54221	0.52632	mg/L		103		90 - 110
	MSD	1425655-02	ND	0.54283	0.52632	mg/L	0.1	103	10	90 - 110
<b>QC Batch ID: BXJ2878</b>		Used client sample: Y - Description: MW-13, 10/29/2014 09:28								
Chloride	DUP	1425655-02	106.39	106.59		mg/L	0.2		10	
	MS	1425655-02	106.39	156.28	50.505	mg/L		98.8		80 - 120
	MSD	1425655-02	106.39	156.18	50.505	mg/L	0.1	98.6	10	80 - 120
Nitrate as N	DUP	1425655-02	9.2330	9.2530		mg/L	0.2		10	
	MS	1425655-02	9.2330	14.340	5.0505	mg/L		101		80 - 120
	MSD	1425655-02	9.2330	14.347	5.0505	mg/L	0.0	101	10	80 - 120
Sulfate	DUP	1425655-02	139.14	139.16		mg/L	0.0		10	
	MS	1425655-02	139.14	243.49	101.01	mg/L		103		80 - 120
	MSD	1425655-02	139.14	243.36	101.01	mg/L	0.1	103	10	80 - 120
<b>QC Batch ID: BXK0009</b>		Used client sample: Y - Description: MW-13, 10/29/2014 09:28								
ortho-Phosphate as P	DUP	1425655-02	0.010889	0.011270		mg/L	3.4		10	J
	MS	1425655-02	0.010889	0.22437	0.21053	mg/L		101		90 - 110
	MSD	1425655-02	0.010889	0.22213	0.21053	mg/L	1.0	100	10	90 - 110
<b>QC Batch ID: BXK1303</b>		Used client sample: Y - Description: MW-13, 10/29/2014 09:28								
Perchlorate	DUP	1425655-02	157.52	159.14		ug/L	1.0		15	
	MS	1425655-02	157.52	252.49	101.01	ug/L		94.0		80 - 120
	MSD	1425655-02	157.52	251.51	101.01	ug/L	0.4	93.1	15	80 - 120
<b>QC Batch ID: BXK1304</b>		Used client sample: Y - Description: MW-15, 10/29/2014 14:30								
Perchlorate	DUP	1425655-05	ND	ND		ug/L			15	
	MS	1425655-05	ND	9.2749	10.101	ug/L		91.8		80 - 120
	MSD	1425655-05	ND	8.5154	10.101	ug/L	8.5	84.3	15	80 - 120

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Powell, OH 43065

**Reported:** 11/18/2014 14:53  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: BXJ2785</b>						
Hexavalent Chromium	BXJ2785-BLK1	ND	mg/L	0.0020	0.00070	
<b>QC Batch ID: BXK1223</b>						
Total Recoverable Chromium	BXK1223-BLK1	ND	ug/L	3.0	0.50	

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/18/2014 14:53  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: BXJ2785</b>										
Hexavalent Chromium	BXJ2785-BS1	LCS	0.050272	0.050000	mg/L	101		85 - 115		
<b>QC Batch ID: BXK1223</b>										
Total Recoverable Chromium	BXK1223-BS1	LCS	44.710	40.000	ug/L	112		85 - 115		

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/18/2014 14:53  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
<b>QC Batch ID: BXJ2785</b>		Used client sample: Y - Description: MW-15, 10/29/2014 14:30								
Hexavalent Chromium	DUP	1425655-05	ND	ND		mg/L			10	
	MS	1425655-05	ND	0.053363	0.052632	mg/L		101		85 - 115
	MSD	1425655-05	ND	0.053461	0.052632	mg/L	0.2	102	10	85 - 115
<b>QC Batch ID: BXK1223</b>		Used client sample: Y - Description: MW-15, 10/29/2014 14:30								
Total Recoverable Chromium	DUP	1425655-05	0.82300	0.90200		ug/L	9.2		20	J
	MS	1425655-05	0.82300	43.535	40.000	ug/L		107		70 - 130
	MSD	1425655-05	0.82300	41.829	40.000	ug/L	4.0	103	20	70 - 130

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/18/2014 14:53  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**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.
- L02 The Laboratory Control Sample Water (LCSW) recovery is not within method established control limits.
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.
- Z1 Results confirmed on the same day.



Date of Report: 11/20/2014

David Conner

Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

Client Project: 4th Quarter  
BCL Project: JPL- GW Monitoring Wells  
BCL Work Order: 1425765  
Invoice ID:

Enclosed are the results of analyses for samples received by the laboratory on 10/30/2014. If you have any questions concerning this report, please feel free to contact me.

Sincerely,

Contact Person: Misty Orton  
Client Service Rep

Authorized Signature

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

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## Notes

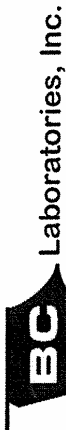
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Chain of Custody Form



Page 1 of 1

**Report To:** Tidewater, Inc.  
**Client:** 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 #:** 14-25765

**Project Description:** JPL-GW Monitoring  
**Project Code:** 4th Quarter  
**Sampler (s):** Blaine Tech

**Analysis Requested:**  
 VOCs EPA 524.2  
 Total Cr (200.8)  
 Perchlorate (EPA 314.0)  
 Chloride, Nitrate, Sulfate (300)  
 Orthophosphate (365.1)  
 Nitrite (353.2)  
 Hexavalent Cr (7196)

**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:** 21035  
 Are there any tests with holding times? less than or equal to 48 hours?  
 Yes  No  
 \*Standard Turnaround = 10

Sample #	Sample Description	Date	Time	Matrix*
1	TB-9-10/30/14	10/30/14	0700	AQ
2	MW-5		0848	
3	MW-10		1030	
4	MW-6		1200	
5	MW-8		1306	
6	MW-7		1405	
7	MW-10		1440	

**Notes:**  
 Level IV  
 MS/MSD  
 MS/MSD  
 CHK BY: [Signature]  
 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)

**Global ID:**  
 1. Received By: [Signature] Date: 10/30/14 Time: 1650  
 2. Received By: [Signature] Date: 10/30/14 Time: 1650  
 3. Received By: [Signature] Date: 10/30/14 Time: 2000

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

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 18 09/04/14 Page 1 Of 1

Submission #: 14-25765

SHIPPING INFORMATION: Federal Express, UPS, Hand Delivery, BC Lab Field Service, Other. SHIPPING CONTAINER: Ice Chest, None, Box, Other. FREE LIQUID: YES, NO.

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

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

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

COC Received: YES, NO. Emissivity: 0.98. Container: PE. Thermometer ID: 207. Date/Time: 10/30/14. Analyst Init: KLB. Temperature: (A) 1.0, (C) 0.6.

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

Comments: Sample Numbering Completed By: [Signature] Date/Time: 10/30/14 2:16 (S:\WPDoc\WordPerfect\LAB\_DOCS\FORMS\SAMREC) A = Actual / C = Corrected



Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/20/2014 15:58  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

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

<b>1425765-01</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> TB-9-10/30/14 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/30/2014 20:00 <b>Sampling Date:</b> 10/30/2014 07:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-9-10/30/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

<b>1425765-02</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-5 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/30/2014 20:00 <b>Sampling Date:</b> 10/30/2014 08:48 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

<b>1425765-03</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-10 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/30/2014 20:00 <b>Sampling Date:</b> 10/30/2014 10:30 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water 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:** 11/20/2014 15:58  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

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

<b>1425765-04</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-6 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/30/2014 20:00 <b>Sampling Date:</b> 10/30/2014 12:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-6 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

<b>1425765-05</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-8 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/30/2014 20:00 <b>Sampling Date:</b> 10/30/2014 13:00 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-8 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

<b>1425765-06</b>	<b>COC Number:</b> --- <b>Project Number:</b> JPL-GW <b>Sampling Location:</b> --- <b>Sampling Point:</b> MW-7 <b>Sampled By:</b> Blaine Tech of BAT	<b>Receive Date:</b> 10/30/2014 20:00 <b>Sampling Date:</b> 10/30/2014 14:05 <b>Sample Depth:</b> --- <b>Lab Matrix:</b> Water <b>Sample Type:</b> Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-7 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.  
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Powell, OH 43065

**Reported:** 11/20/2014 15:58  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Laboratory / Client Sample Cross Reference

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

<b>1425765-07</b>	<b>COC Number:</b>	---	<b>Receive Date:</b>	10/30/2014 20:00
	<b>Project Number:</b>	JPL-GW	<b>Sampling Date:</b>	10/30/2014 14:40
	<b>Sampling Location:</b>	---	<b>Sample Depth:</b>	---
	<b>Sampling Point:</b>	MW-16	<b>Lab Matrix:</b>	Water
	<b>Sampled By:</b>	Blaine Tech of BAT	<b>Sample Type:</b>	Water
			Delivery Work Order:	
			Global ID: 0000000000	
			Location ID (FieldPoint): MW-16	
			Matrix: W	
			Sample QC Type (SACode): CS	
		Cooler ID:		

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

Reported: 11/20/2014 15:58  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1425765-01 Client Sample Name: JPL-GW, TB-9-10/30/14, 10/30/2014 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	V11	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: 11/20/2014 15:58  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425765-01	<b>Client Sample Name:</b> JPL-GW, TB-9-10/30/14, 10/30/2014 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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:** 11/20/2014 15:58  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425765-01	<b>Client Sample Name:</b> JPL-GW, TB-9-10/30/14, 10/30/2014 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	V11	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	V11	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)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/31/14	10/31/14 21:21	MGC	MS-V5	1	BXJ2934

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/20/2014 15:58  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425765-01	<b>Client Sample Name:</b> JPL-GW, TB-9-10/30/14, 10/30/2014 7:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/31/14	10/31/14 21:21	MGC	MS-V5	1	BXJ2934

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3761 Attucks Drive  
Powell, OH 43065

Reported: 11/20/2014 15:58  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425765-02	<b>Client Sample Name:</b> JPL-GW, MW-5, 10/30/2014 8:48:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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
<b>Chloroform</b>	<b>0.77</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	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
<b>1,1-Dichloroethane</b>	<b>0.15</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.11</b>	<b>EPA-524.2</b>	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: 11/20/2014 15:58  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425765-02	<b>Client Sample Name:</b> JPL-GW, MW-5, 10/30/2014 8:48:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Tetrachloroethene</b>	<b>0.70</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.13</b>	<b>EPA-524.2</b>	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
<b>Trichloroethene</b>	<b>4.7</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	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:** 11/20/2014 15:58  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425765-02	<b>Client Sample Name:</b> JPL-GW, MW-5, 10/30/2014 8:48:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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	V11	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)	97.8	%	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	10/31/14	10/31/14 21:43	MGC	MS-V5	1	BXJ2934

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/20/2014 15:58  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425765-02	<b>Client Sample Name:</b> JPL-GW, MW-5, 10/30/2014 8:48:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/31/14	10/31/14 21:43	MGC	MS-V5	1	BXJ2934

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/20/2014 15:58  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425765-02	<b>Client Sample Name:</b> JPL-GW, MW-5, 10/30/2014 8:48:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	6.8	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	11/17/14	11/17/14 15:35	BMW	IC6	1	BXK1433

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/20/2014 15:58  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425765-02	<b>Client Sample Name:</b> JPL-GW, MW-5, 10/30/2014 8:48:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00092	mg/L	0.0020	0.00070	EPA-7196	ND	J	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	10/31/14	10/31/14 03:40	BMW	KONE-1	1	BXK0014
2	EPA-200.8	11/15/14	11/17/14 18:07	SRM	PE-EL2	1	BXK1291

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

Reported: 11/20/2014 15:58  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425765-03	<b>Client Sample Name:</b> JPL-GW, MW-10, 10/30/2014 10:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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
<b>Chloroform</b>	<b>0.71</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	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
<b>1,1-Dichloroethane</b>	<b>0.18</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.11</b>	<b>EPA-524.2</b>	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
<b>cis-1,2-Dichloroethene</b>	<b>0.25</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	ND	J	1
<b>trans-1,2-Dichloroethene</b>	<b>0.39</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.15</b>	<b>EPA-524.2</b>	ND	J	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: 11/20/2014 15:58  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425765-03	<b>Client Sample Name:</b> JPL-GW, MW-10, 10/30/2014 10:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Tetrachloroethene</b>	<b>0.77</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.13</b>	<b>EPA-524.2</b>	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
<b>Trichloroethene</b>	<b>7.7</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	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: 11/20/2014 15:58  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425765-03	<b>Client Sample Name:</b> JPL-GW, MW-10, 10/30/2014 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	V11	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	V11	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)	95.7	%	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	10/31/14	10/31/14 22:06	MGC	MS-V5	1	BXJ2934

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/20/2014 15:58  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425765-03	<b>Client Sample Name:</b> JPL-GW, MW-10, 10/30/2014 10:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/31/14	10/31/14 22:06	MGC	MS-V5	1	BXJ2934

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/20/2014 15:58  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425765-03	<b>Client Sample Name:</b> JPL-GW, MW-10, 10/30/2014 10:30:00AM, Blaine Tech
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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	11/17/14	11/17/14 15:48	BMW	IC6	1	BXK1433

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/20/2014 15:58  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425765-03	<b>Client Sample Name:</b> JPL-GW, MW-10, 10/30/2014 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
<b>Total Recoverable Chromium</b>	<b>10</b>	<b>ug/L</b>	<b>3.0</b>	<b>0.50</b>	<b>EPA-200.8</b>	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	10/31/14	10/31/14 03:40	BMW	KONE-1	1	BXK0014
2	EPA-200.8	11/15/14	11/17/14 18:38	SRM	PE-EL2	1	BXK1291

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Powell, OH 43065

Reported: 11/20/2014 15:58  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425765-04	<b>Client Sample Name:</b> JPL-GW, MW-6, 10/30/2014 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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
<b>Chloroform</b>	<b>0.70</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	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
<b>1,1-Dichloroethane</b>	<b>0.20</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.11</b>	<b>EPA-524.2</b>	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
<b>trans-1,2-Dichloroethene</b>	<b>0.16</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.15</b>	<b>EPA-524.2</b>	ND	J	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: 11/20/2014 15:58  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425765-04	<b>Client Sample Name:</b> JPL-GW, MW-6, 10/30/2014 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Tetrachloroethene</b>	<b>1.0</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.13</b>	<b>EPA-524.2</b>	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
<b>Trichloroethene</b>	<b>3.7</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.085</b>	<b>EPA-524.2</b>	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:** 11/20/2014 15:58  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425765-04	<b>Client Sample Name:</b> JPL-GW, MW-6, 10/30/2014 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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	V11	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)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	81.5	%	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	10/31/14	10/31/14 18:43	MGC	MS-V5	1	BXJ2934

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**Reported:** 11/20/2014 15:58  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425765-04	<b>Client Sample Name:</b> JPL-GW, MW-6, 10/30/2014 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	10/31/14	10/31/14 18:43	MGC	MS-V5	1	BXJ2934

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**Reported:** 11/20/2014 15:58  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425765-04	<b>Client Sample Name:</b> JPL-GW, MW-6, 10/30/2014 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Perchlorate	3.0	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	11/17/14	11/17/14 17:25	BMW	IC6	1	BXK1434

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Powell, OH 43065

**Reported:** 11/20/2014 15:58  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425765-04	<b>Client Sample Name:</b> JPL-GW, MW-6, 10/30/2014 12:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0010	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Chromium	270	ug/L	3.0	0.50	EPA-200.8	ND		2

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-7196	10/31/14	10/31/14	03:40	BMW	KONE-1	1	BXK0014
2	EPA-200.8	11/15/14	11/17/14	17:50	SRM	PE-EL2	1	BXK1291

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Reported: 11/20/2014 15:58  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1425765-05 Client Sample Name: JPL-GW, MW-8, 10/30/2014 1:06:00PM, 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
<b>Bromodichloromethane</b>	<b>0.25</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.14</b>	<b>EPA-524.2</b>	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	V11	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
<b>Chloroform</b>	<b>9.8</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	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: 11/20/2014 15:58  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425765-05	<b>Client Sample Name:</b> JPL-GW, MW-8, 10/30/2014 1:06:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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:** 11/20/2014 15:58  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425765-05	<b>Client Sample Name:</b> JPL-GW, MW-8, 10/30/2014 1:06:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	102	%	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	11/03/14	11/03/14 08:02	MGC	MS-V5	1	BXK0015

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**Reported:** 11/20/2014 15:58  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425765-05	<b>Client Sample Name:</b> JPL-GW, MW-8, 10/30/2014 1:06:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/03/14	11/03/14 08:02	MGC	MS-V5	1	BXK0015

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**Reported:** 11/20/2014 15:58  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425765-05	<b>Client Sample Name:</b> JPL-GW, MW-8, 10/30/2014 1:06:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride	78	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	43	mg/L	1.0	0.18	EPA-300.0	0.19		1
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		2
Perchlorate	7.8	ug/L	4.0	0.45	EPA-314.0	ND		3
ortho-Phosphate as P	0.015	mg/L	0.020	0.0057	EPA-365.1	0.0099	J,Z1	4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	10/31/14	10/31/14 12:11	OLH	IC1	1	BXK0047
2	EPA-353.2	10/31/14	10/31/14 09:35	TDC	KONE-1	1	BXK0106
3	EPA-314.0	11/17/14	11/17/14 18:07	BMW	IC6	1	BXK1435
4	EPA-365.1	10/31/14	10/31/14 09:02	TDC	KONE-1	1	BXK0010

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**Reported:** 11/20/2014 15:58  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

<b>BCL Sample ID:</b> 1425765-05	<b>Client Sample Name:</b> JPL-GW, MW-8, 10/30/2014 1:06:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0082	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Chromium	20	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	10/31/14	10/31/14 03:40	BMW	KONE-1	1	BXK0014
2	EPA-200.8	11/15/14	11/17/14 18:41	SRM	PE-EL2	1	BXK1291

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

Reported: 11/20/2014 15:58  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425765-06	<b>Client Sample Name:</b> JPL-GW, MW-7, 10/30/2014 2:05:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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
<b>Chloroform</b>	<b>1.4</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	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: 11/20/2014 15:58  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425765-06	<b>Client Sample Name:</b> JPL-GW, MW-7, 10/30/2014 2:05:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Tetrachloroethene</b>	<b>0.16</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.13</b>	<b>EPA-524.2</b>	ND	<b>J</b>	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:** 11/20/2014 15:58  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425765-06	<b>Client Sample Name:</b> JPL-GW, MW-7, 10/30/2014 2:05:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	84.7	%	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	11/03/14	11/03/14 10:18	MGC	MS-V5	1	BXK0015

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Powell, OH 43065

**Reported:** 11/20/2014 15:58  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425765-06	<b>Client Sample Name:</b> JPL-GW, MW-7, 10/30/2014 2:05:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/03/14	11/03/14 10:18	MGC	MS-V5	1	BXK0015

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3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/20/2014 15:58  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425765-06	<b>Client Sample Name:</b> JPL-GW, MW-7, 10/30/2014 2:05:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride	80	mg/L	0.50	0.067	EPA-300.0	ND		1
Nitrate as N	1.2	mg/L	0.10	0.025	EPA-300.0	ND		1
Sulfate	45	mg/L	1.0	0.18	EPA-300.0	0.19		1
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		2
Perchlorate	8.5	ug/L	4.0	0.45	EPA-314.0	ND		3
ortho-Phosphate as P	0.016	mg/L	0.020	0.0057	EPA-365.1	0.0099	J	4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	10/31/14	10/31/14 13:10	OLH	IC1	1	BXK0047
2	EPA-353.2	10/31/14	10/31/14 09:35	TDC	KONE-1	1	BXK0106
3	EPA-314.0	11/17/14	11/17/14 19:02	BMW	IC6	1	BXK1435
4	EPA-365.1	10/31/14	10/31/14 09:02	TDC	KONE-1	1	BXK0010

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3761 Attucks Drive  
Powell, OH 43065

Reported: 11/20/2014 15:58  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425765-07	<b>Client Sample Name:</b> JPL-GW, MW-16, 10/30/2014 2:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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
<b>Chloroform</b>	<b>0.71</b>	<b>ug/L</b>	<b>0.50</b>	<b>0.12</b>	<b>EPA-524.2</b>	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: 11/20/2014 15:58  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425765-07	<b>Client Sample Name:</b> JPL-GW, MW-16, 10/30/2014 2:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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
<b>Carbon disulfide</b>	<b>0.40</b>	<b>ug/L</b>	<b>1.0</b>	<b>0.38</b>	<b>EPA-524.2</b>	ND	<b>J</b>	<b>1</b>
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: 11/20/2014 15:58  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

<b>BCL Sample ID:</b> 1425765-07	<b>Client Sample Name:</b> JPL-GW, MW-16, 10/30/2014 2:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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)	84.7	%	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	11/03/14	11/03/14 10:40	MGC	MS-V5	1	BXK0015

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/20/2014 15:58  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Volatile Organic Analysis (EPA Method 524.2) TICs

<b>BCL Sample ID:</b> 1425765-07	<b>Client Sample Name:</b> JPL-GW, MW-16, 10/30/2014 2:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	11/03/14	11/03/14 10:40	MGC	MS-V5	1	BXK0015

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Powell, OH 43065

**Reported:** 11/20/2014 15:58  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

<b>BCL Sample ID:</b> 1425765-07	<b>Client Sample Name:</b> JPL-GW, MW-16, 10/30/2014 2:40:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloride	77	mg/L	0.50	0.067	EPA-300.0	ND		1
Nitrate as N	0.88	mg/L	0.10	0.025	EPA-300.0	ND		1
Sulfate	41	mg/L	1.0	0.18	EPA-300.0	0.19		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	0.019	mg/L	0.020	0.0057	EPA-365.1	0.0099	J	4

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-300.0	10/31/14	10/31/14 13:25	OLH	IC1	1	BXK0047
2	EPA-353.2	10/31/14	10/31/14 09:35	TDC	KONE-1	1	BXK0106
3	EPA-314.0	11/17/14	11/17/14 19:16	BMW	IC6	1	BXK1435
4	EPA-365.1	10/31/14	10/31/14 09:02	TDC	KONE-1	1	BXK0010

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Powell, OH 43065

Reported: 11/20/2014 15:58  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
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
<b>QC Batch ID: BXJ2934</b>						
Benzene	BXJ2934-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXJ2934-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXJ2934-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXJ2934-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXJ2934-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXJ2934-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXJ2934-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXJ2934-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXJ2934-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXJ2934-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXJ2934-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXJ2934-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXJ2934-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXJ2934-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXJ2934-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXJ2934-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BXJ2934-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXJ2934-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXJ2934-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXJ2934-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXJ2934-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXJ2934-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXJ2934-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXJ2934-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXJ2934-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXJ2934-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXJ2934-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXJ2934-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXJ2934-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXJ2934-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXJ2934-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXJ2934-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXJ2934-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXJ2934-BLK1	ND	ug/L	0.50	0.14	

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Powell, OH 43065

**Reported:** 11/20/2014 15:58  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
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
<b>QC Batch ID: BXJ2934</b>						
trans-1,3-Dichloropropene	BXJ2934-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXJ2934-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXJ2934-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXJ2934-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXJ2934-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXJ2934-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXJ2934-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXJ2934-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXJ2934-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXJ2934-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXJ2934-BLK1	ND	ug/L	0.50	0.18	
1,1,1,2-Tetrachloroethane	BXJ2934-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BXJ2934-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXJ2934-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXJ2934-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXJ2934-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BXJ2934-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXJ2934-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXJ2934-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXJ2934-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXJ2934-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXJ2934-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXJ2934-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXJ2934-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXJ2934-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXJ2934-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXJ2934-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXJ2934-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXJ2934-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXJ2934-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXJ2934-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXJ2934-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXJ2934-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXJ2934-BLK1	ND	ug/L	4.0	0.97	

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Reported: 11/20/2014 15:58  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
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**QC Batch ID: BXJ2934**

Ethyl t-butyl ether	BXJ2934-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXJ2934-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXJ2934-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXJ2934-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXJ2934-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXJ2934-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXJ2934-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXJ2934-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXJ2934-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXJ2934-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXJ2934-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXJ2934-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXJ2934-BLK1	ND	ug/L	0.50	0.082	
<b>1,2-Dichloroethane-d4 (Surrogate)</b>	<b>BXJ2934-BLK1</b>	<b>106</b>	<b>%</b>	<b>75 - 125 (LCL - UCL)</b>		
<b>Toluene-d8 (Surrogate)</b>	<b>BXJ2934-BLK1</b>	<b>97.3</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		
<b>4-Bromofluorobenzene (Surrogate)</b>	<b>BXJ2934-BLK1</b>	<b>81.0</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		

**QC Batch ID: BXK0015**

Benzene	BXK0015-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXK0015-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXK0015-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXK0015-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXK0015-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXK0015-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXK0015-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXK0015-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXK0015-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXK0015-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXK0015-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXK0015-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXK0015-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXK0015-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXK0015-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXK0015-BLK1	ND	ug/L	0.50	0.15	

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Powell, OH 43065

**Reported:** 11/20/2014 15:58  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
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
<b>QC Batch ID: BXK0015</b>						
Dibromochloromethane	BXK0015-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXK0015-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXK0015-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXK0015-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXK0015-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXK0015-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXK0015-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXK0015-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXK0015-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXK0015-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXK0015-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXK0015-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXK0015-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXK0015-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXK0015-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXK0015-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXK0015-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXK0015-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	BXK0015-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXK0015-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXK0015-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXK0015-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXK0015-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXK0015-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXK0015-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXK0015-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXK0015-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXK0015-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXK0015-BLK1	ND	ug/L	0.50	0.18	
1,1,1,2,2-Tetrachloroethane	BXK0015-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BXK0015-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXK0015-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXK0015-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXK0015-BLK1	ND	ug/L	0.50	0.19	

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Powell, OH 43065

Reported: 11/20/2014 15:58  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
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
<b>QC Batch ID: BXK0015</b>						
1,1,1-Trichloroethane	BXK0015-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXK0015-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXK0015-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXK0015-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXK0015-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXK0015-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXK0015-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXK0015-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXK0015-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXK0015-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXK0015-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXK0015-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXK0015-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXK0015-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXK0015-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXK0015-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXK0015-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXK0015-BLK1	ND	ug/L	4.0	0.97	
Ethyl t-butyl ether	BXK0015-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXK0015-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXK0015-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXK0015-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXK0015-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXK0015-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXK0015-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXK0015-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXK0015-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXK0015-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXK0015-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXK0015-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXK0015-BLK1	ND	ug/L	0.50	0.082	
<b>1,2-Dichloroethane-d4 (Surrogate)</b>	<b>BXK0015-BLK1</b>	<b>101</b>	<b>%</b>	<b>75 - 125 (LCL - UCL)</b>		
<b>Toluene-d8 (Surrogate)</b>	<b>BXK0015-BLK1</b>	<b>101</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		
<b>4-Bromofluorobenzene (Surrogate)</b>	<b>BXK0015-BLK1</b>	<b>88.3</b>	<b>%</b>	<b>80 - 120 (LCL - UCL)</b>		

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Tidewater Inc.  
3761 Attucks Drive  
Powell, OH 43065

**Reported:** 11/20/2014 15:58  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

## Volatile Organic Analysis (EPA Method 524.2)

### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: BXJ2934</b>										
Benzene	BXJ2934-BS1	LCS	24.440	25.000	ug/L	97.8		70 - 130		
Bromodichloromethane	BXJ2934-BS1	LCS	25.290	25.000	ug/L	101		70 - 130		
Chlorobenzene	BXJ2934-BS1	LCS	24.520	25.000	ug/L	98.1		70 - 130		
Chloroethane	BXJ2934-BS1	LCS	27.560	25.000	ug/L	110		70 - 130		
1,4-Dichlorobenzene	BXJ2934-BS1	LCS	25.820	25.000	ug/L	103		70 - 130		
1,1-Dichloroethane	BXJ2934-BS1	LCS	23.990	25.000	ug/L	96.0		70 - 130		
1,1-Dichloroethene	BXJ2934-BS1	LCS	24.700	25.000	ug/L	98.8		70 - 130		
Toluene	BXJ2934-BS1	LCS	24.520	25.000	ug/L	98.1		70 - 130		
Trichloroethene	BXJ2934-BS1	LCS	26.580	25.000	ug/L	106		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXJ2934-BS1	LCS	10.200	10.000	ug/L	102		75 - 125		
Toluene-d8 (Surrogate)	BXJ2934-BS1	LCS	10.010	10.000	ug/L	100		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXJ2934-BS1	LCS	9.7100	10.000	ug/L	97.1		80 - 120		
<b>QC Batch ID: BXK0015</b>										
Benzene	BXK0015-BS1	LCS	24.290	25.000	ug/L	97.2		70 - 130		
Bromodichloromethane	BXK0015-BS1	LCS	25.480	25.000	ug/L	102		70 - 130		
Chlorobenzene	BXK0015-BS1	LCS	25.240	25.000	ug/L	101		70 - 130		
Chloroethane	BXK0015-BS1	LCS	27.450	25.000	ug/L	110		70 - 130		
1,4-Dichlorobenzene	BXK0015-BS1	LCS	27.120	25.000	ug/L	108		70 - 130		
1,1-Dichloroethane	BXK0015-BS1	LCS	24.030	25.000	ug/L	96.1		70 - 130		
1,1-Dichloroethene	BXK0015-BS1	LCS	24.710	25.000	ug/L	98.8		70 - 130		
Toluene	BXK0015-BS1	LCS	25.120	25.000	ug/L	100		70 - 130		
Trichloroethene	BXK0015-BS1	LCS	25.080	25.000	ug/L	100		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXK0015-BS1	LCS	9.7300	10.000	ug/L	97.3		75 - 125		
Toluene-d8 (Surrogate)	BXK0015-BS1	LCS	10.050	10.000	ug/L	100		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXK0015-BS1	LCS	10.530	10.000	ug/L	105		80 - 120		

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Reported: 11/20/2014 15:58  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
<b>QC Batch ID: BXJ2934</b>		Used client sample: Y - Description: MW-6, 10/30/2014 12:00								
Benzene	MS	1425765-04	ND	27.330	25.000	ug/L		109		70 - 130
	MSD	1425765-04	ND	24.840	25.000	ug/L	9.5	99.4	20	70 - 130
Bromodichloromethane	MS	1425765-04	ND	27.490	25.000	ug/L		110		70 - 130
	MSD	1425765-04	ND	25.240	25.000	ug/L	8.5	101	20	70 - 130
Chlorobenzene	MS	1425765-04	ND	28.240	25.000	ug/L		113		70 - 130
	MSD	1425765-04	ND	24.990	25.000	ug/L	12.2	100	20	70 - 130
Chloroethane	MS	1425765-04	ND	30.370	25.000	ug/L		121		70 - 130
	MSD	1425765-04	ND	27.390	25.000	ug/L	10.3	110	20	70 - 130
1,4-Dichlorobenzene	MS	1425765-04	ND	29.600	25.000	ug/L		118		70 - 130
	MSD	1425765-04	ND	26.260	25.000	ug/L	12.0	105	20	70 - 130
1,1-Dichloroethane	MS	1425765-04	0.20000	27.060	25.000	ug/L		107		70 - 130
	MSD	1425765-04	0.20000	24.330	25.000	ug/L	10.6	96.5	20	70 - 130
1,1-Dichloroethene	MS	1425765-04	ND	27.270	25.000	ug/L		109		70 - 130
	MSD	1425765-04	ND	24.740	25.000	ug/L	9.7	99.0	20	70 - 130
Toluene	MS	1425765-04	ND	27.540	25.000	ug/L		110		70 - 130
	MSD	1425765-04	ND	24.820	25.000	ug/L	10.4	99.3	20	70 - 130
Trichloroethene	MS	1425765-04	3.7200	30.840	25.000	ug/L		108		70 - 130
	MSD	1425765-04	3.7200	28.160	25.000	ug/L	9.1	97.8	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1425765-04	ND	10.060	10.000	ug/L		101		75 - 125
	MSD	1425765-04	ND	10.050	10.000	ug/L	0.1	100		75 - 125
Toluene-d8 (Surrogate)	MS	1425765-04	ND	9.8900	10.000	ug/L		98.9		80 - 120
	MSD	1425765-04	ND	9.9200	10.000	ug/L	0.3	99.2		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1425765-04	ND	10.520	10.000	ug/L		105		80 - 120
	MSD	1425765-04	ND	10.140	10.000	ug/L	3.7	101		80 - 120
<b>QC Batch ID: BXK0015</b>		Used client sample: Y - Description: MW-8, 10/30/2014 13:06								
Benzene	MS	1425765-05	ND	24.930	25.000	ug/L		99.7		70 - 130
	MSD	1425765-05	ND	24.670	25.000	ug/L	1.0	98.7	20	70 - 130
Bromodichloromethane	MS	1425765-05	0.25000	25.970	25.000	ug/L		103		70 - 130
	MSD	1425765-05	0.25000	25.970	25.000	ug/L	0	103	20	70 - 130
Chlorobenzene	MS	1425765-05	ND	25.100	25.000	ug/L		100		70 - 130
	MSD	1425765-05	ND	24.930	25.000	ug/L	0.7	99.7	20	70 - 130
Chloroethane	MS	1425765-05	ND	27.360	25.000	ug/L		109		70 - 130
	MSD	1425765-05	ND	26.570	25.000	ug/L	2.9	106	20	70 - 130
1,4-Dichlorobenzene	MS	1425765-05	ND	26.500	25.000	ug/L		106		70 - 130
	MSD	1425765-05	ND	26.750	25.000	ug/L	0.9	107	20	70 - 130
1,1-Dichloroethane	MS	1425765-05	ND	24.170	25.000	ug/L		96.7		70 - 130
	MSD	1425765-05	ND	24.470	25.000	ug/L	1.2	97.9	20	70 - 130

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Powell, OH 43065

Reported: 11/20/2014 15:58  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Volatile Organic Analysis (EPA Method 524.2)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: BXK0015</b>		Used client sample: Y - Description: MW-8, 10/30/2014 13:06								
1,1-Dichloroethene	MS	1425765-05	ND	24.320	25.000	ug/L		97.3		70 - 130
	MSD	1425765-05	ND	24.180	25.000	ug/L	0.6	96.7	20	70 - 130
Toluene	MS	1425765-05	ND	24.930	25.000	ug/L		99.7		70 - 130
	MSD	1425765-05	ND	25.240	25.000	ug/L	1.2	101	20	70 - 130
Trichloroethene	MS	1425765-05	ND	25.040	25.000	ug/L		100		70 - 130
	MSD	1425765-05	ND	25.290	25.000	ug/L	1.0	101	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1425765-05	ND	10.100	10.000	ug/L		101		75 - 125
	MSD	1425765-05	ND	10.050	10.000	ug/L	0.5	100		75 - 125
Toluene-d8 (Surrogate)	MS	1425765-05	ND	9.9200	10.000	ug/L		99.2		80 - 120
	MSD	1425765-05	ND	9.9900	10.000	ug/L	0.7	99.9		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1425765-05	ND	9.9800	10.000	ug/L		99.8		80 - 120
	MSD	1425765-05	ND	10.470	10.000	ug/L	4.8	105		80 - 120

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**Reported:** 11/20/2014 15:58  
Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
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
<b>QC Batch ID: BXJ2934</b>						
Chloroacetonitrile	BXJ2934-BLK1	0	ug/L			
1-Chlorobutane	BXJ2934-BLK1	0	ug/L			
1,1-Dichloropropanone	BXJ2934-BLK1	0	ug/L			
Methyl acrylate	BXJ2934-BLK1	0	ug/L			
Nitrobenzene	BXJ2934-BLK1	0	ug/L			
2-Nitropropane	BXJ2934-BLK1	0	ug/L			
<b>QC Batch ID: BXK0015</b>						
Chloroacetonitrile	BXK0015-BLK1	0	ug/L			
1-Chlorobutane	BXK0015-BLK1	0	ug/L			
1,1-Dichloropropanone	BXK0015-BLK1	0	ug/L			
Methyl acrylate	BXK0015-BLK1	0	ug/L			
Nitrobenzene	BXK0015-BLK1	0	ug/L			
2-Nitropropane	BXK0015-BLK1	0	ug/L			

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Powell, OH 43065

**Reported:** 11/20/2014 15:58  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**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
<b>QC Batch ID: BXK0010</b>						
ortho-Phosphate as P	BXK0010-BLK1	0.0098670	mg/L	0.020	0.0057	J
<b>QC Batch ID: BXK0047</b>						
Chloride	BXK0047-BLK1	ND	mg/L	0.50	0.067	
Nitrate as N	BXK0047-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXK0047-BLK1	0.19200	mg/L	1.0	0.18	J
<b>QC Batch ID: BXK0106</b>						
Nitrite as N	BXK0106-BLK1	ND	mg/L	0.050	0.010	
<b>QC Batch ID: BXK1433</b>						
Perchlorate	BXK1433-BLK1	ND	ug/L	4.0	0.45	
<b>QC Batch ID: BXK1434</b>						
Perchlorate	BXK1434-BLK1	ND	ug/L	4.0	0.45	
<b>QC Batch ID: BXK1435</b>						
Perchlorate	BXK1435-BLK1	ND	ug/L	4.0	0.45	

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**Reported:** 11/20/2014 15:58  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Water Analysis (General Chemistry)

#### Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
<b>QC Batch ID: BXK0010</b>										
ortho-Phosphate as P	BXK0010-BS1	LCS	0.20545	0.20000	mg/L	103		90 - 110		
<b>QC Batch ID: BXK0047</b>										
Chloride	BXK0047-BS1	LCS	54.447	50.000	mg/L	109		90 - 110		
Nitrate as N	BXK0047-BS1	LCS	5.4370	5.0000	mg/L	109		90 - 110		
Sulfate	BXK0047-BS1	LCS	108.62	100.00	mg/L	109		90 - 110		
<b>QC Batch ID: BXK0106</b>										
Nitrite as N	BXK0106-BS1	LCS	0.52349	0.50000	mg/L	105		90 - 110		
<b>QC Batch ID: BXK1433</b>										
Perchlorate	BXK1433-BS1	LCS	10.405	10.000	ug/L	104		85 - 115		
<b>QC Batch ID: BXK1434</b>										
Perchlorate	BXK1434-BS1	LCS	10.628	10.000	ug/L	106		85 - 115		
<b>QC Batch ID: BXK1435</b>										
Perchlorate	BXK1435-BS1	LCS	10.679	10.000	ug/L	107		85 - 115		

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Project: JPL- GW Monitoring Wells  
Project Number: 4th Quarter  
Project Manager: David Conner

### Water Analysis (General Chemistry)

#### Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
<b>QC Batch ID: BXK0010</b>		Used client sample: Y - Description: MW-8, 10/30/2014 13:06								
ortho-Phosphate as P	DUP	1425765-05	0.015302	0.35711		mg/L	184		10	Q01
	MS	1425765-05	0.015302	0.22300	0.21053	mg/L		98.7	90 - 110	
	MSD	1425765-05	0.015302	0.21891	0.21053	mg/L	1.8	96.7	10 90 - 110	
<b>QC Batch ID: BXK0047</b>		Used client sample: Y - Description: MW-8, 10/30/2014 13:06								
Chloride	DUP	1425765-05	78.091	78.233		mg/L	0.2		10	
	MS	1425765-05	78.091	130.72	50.505	mg/L		104	80 - 120	
	MSD	1425765-05	78.091	130.61	50.505	mg/L	0.1	104	10 80 - 120	
Nitrate as N	DUP	1425765-05	1.3370	1.3400		mg/L	0.2		10	
	MS	1425765-05	1.3370	6.5374	5.0505	mg/L		103	80 - 120	
	MSD	1425765-05	1.3370	6.5242	5.0505	mg/L	0.2	103	10 80 - 120	
Sulfate	DUP	1425765-05	42.667	42.639		mg/L	0.1		10	
	MS	1425765-05	42.667	149.43	101.01	mg/L		106	80 - 120	
	MSD	1425765-05	42.667	149.21	101.01	mg/L	0.1	105	10 80 - 120	
<b>QC Batch ID: BXK0106</b>		Used client sample: Y - Description: MW-8, 10/30/2014 13:06								
Nitrite as N	DUP	1425765-05	ND	ND		mg/L			10	
	MS	1425765-05	ND	0.55197	0.52632	mg/L		105	90 - 110	
	MSD	1425765-05	ND	0.54997	0.52632	mg/L	0.4	104	10 90 - 110	
<b>QC Batch ID: BXK1433</b>		Used client sample: Y - Description: MW-10, 10/30/2014 10:30								
Perchlorate	DUP	1425765-03	3.4138	3.9265		ug/L	14.0		15	J
	MS	1425765-03	3.4138	12.979	10.101	ug/L		94.7	80 - 120	
	MSD	1425765-03	3.4138	12.212	10.101	ug/L	6.1	87.1	15 80 - 120	
<b>QC Batch ID: BXK1434</b>		Used client sample: Y - Description: MW-6, 10/30/2014 12:00								
Perchlorate	DUP	1425765-04	2.9793	2.9253		ug/L	1.8		15	J
	MS	1425765-04	2.9793	12.347	10.101	ug/L		92.7	80 - 120	
	MSD	1425765-04	2.9793	12.527	10.101	ug/L	1.4	94.5	15 80 - 120	
<b>QC Batch ID: BXK1435</b>		Used client sample: Y - Description: MW-8, 10/30/2014 13:06								
Perchlorate	DUP	1425765-05	7.8436	7.5454		ug/L	3.9		15	
	MS	1425765-05	7.8436	16.791	10.101	ug/L		88.6	80 - 120	
	MSD	1425765-05	7.8436	15.933	10.101	ug/L	5.2	80.1	15 80 - 120	

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**Reported:** 11/20/2014 15:58  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**Project Manager:** David Conner

### Metals Analysis

#### Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
<b>QC Batch ID: BXK0014</b>						
Hexavalent Chromium	BXK0014-BLK1	ND	mg/L	0.0020	0.00070	
<b>QC Batch ID: BXK1291</b>						
Total Recoverable Chromium	BXK1291-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		Lab	Quals
								Percent Recovery	RPD		
<b>QC Batch ID: BXK0014</b>											
Hexavalent Chromium	BXK0014-BS1	LCS	0.049934	0.050000	mg/L	99.9		85	115		
<b>QC Batch ID: BXK1291</b>											
Total Recoverable Chromium	BXK1291-BS1	LCS	40.620	40.000	ug/L	102		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	Control Limits		Lab
								Percent Recovery	RPD	
<b>QC Batch ID: BXK0014</b>		Used client sample: Y - Description: MW-6, 10/30/2014 12:00								
Hexavalent Chromium	DUP	1425765-04	0.00099700	0.00087100		mg/L	13.5		10	J,A02
	MS	1425765-04	0.00099700	0.054939	0.052632	mg/L		102	85 - 115	
	MSD	1425765-04	0.00099700	0.054387	0.052632	mg/L	1.0	101	10	85 - 115
<b>QC Batch ID: BXK1291</b>		Used client sample: Y - Description: MW-6, 10/30/2014 12:00								
Total Recoverable Chromium	DUP	1425765-04	274.38	271.15		ug/L	1.2		20	
	MS	1425765-04	274.38	310.48	40.000	ug/L		90.2		70 - 130
	MSD	1425765-04	274.38	311.53	40.000	ug/L	0.3	92.9	20	70 - 130

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

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**Reported:** 11/20/2014 15:58  
**Project:** JPL- GW Monitoring Wells  
**Project Number:** 4th Quarter  
**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.
- Q01 Sample precision is not within the control limits.
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.
- Z1 Sample was re-analyzed past hold time to confirm result , recheck result was consistent but not processed.