

ATTACHMENT 3-A: LABORATORY ANALYTICAL REPORTS

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



Date of Report: 06/12/2014

David Conner

Tidewater Inc.

3761 Attucks Drive

Powell, OH 43065

Client Project: 2nd Qtr.

BCL Project: JPL- GW Monitoring Wells

BCL Work Order: 1408871

Invoice ID: B175557

Enclosed are the results of analyses for samples received by the laboratory on 4/21/2014. 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; AK UST101

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

Submission #: 14-08871

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: 0.95 Container: PE Thermometer ID: 207 Date/Time: 4.21.14 9:30

Temperature: (A) 1.9 °C / (C) 1.9 °C Analyst Init: [Signature]

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL		B	B	B	B	B	B	B	B	B
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS		C	C	C	C	C	C	C	C	C
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A									
40ml VOA VIAL		A:3	A:3	A:3	A:3	A:3	A:9	A:3	A:3	A:9
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: M Date/Time: 4.21.14 10:5



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

Submission #: 14-05871

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: 0.95 Container: PB Thermometer ID: 207 Date/Time: 4.1.14 1930
 Temperature: (A) 1.9 °C / (C) 1.9 °C Analyst Init: JH

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	B	B	B	B						
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS	C	C	C	C						
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A-3	A-3	A-3	A-3						
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: AM Date/Time: 4.1.14 1945
 A = Actual / C = Corrected

IS:\MyDOCS\WordPerfect\LAB_DOCS\FORMS\ISAMREC15I



Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1408871-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-1-4/21/14 Sampled By: Blaine Tech of BAT	Receive Date: 04/21/2014 19:30 Sampling Date: 04/21/2014 06:30 Sample Depth: --- Lab Matrix: Water Sample Type: Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-1-4/21/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1408871-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: EB-1-4/21/14 Sampled By: Blaine Tech of BAT	Receive Date: 04/21/2014 19:30 Sampling Date: 04/21/2014 06:50 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-1-4/21/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1408871-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: SB-1-4/21/14 Sampled By: Blaine Tech of BAT	Receive Date: 04/21/2014 19:30 Sampling Date: 04/21/2014 06:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): SB-1-4/21/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1408871-04	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-11-5 Sampled By: Blaine Tech of BAT	Receive Date: 04/21/2014 19:30 Sampling Date: 04/21/2014 07:30 Sample Depth: --- Lab Matrix: Water Sample Type: 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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1408871-05	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-11-4 Sampled By: Blaine Tech of BAT	Receive Date: 04/21/2014 19:30 Sampling Date: 04/21/2014 08:10 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-11-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1408871-06	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-11-3 Sampled By: Blaine Tech of BAT	Receive Date: 04/21/2014 19:30 Sampling Date: 04/21/2014 08:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-11-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1408871-07	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-11-2 Sampled By: Blaine Tech of BAT	Receive Date: 04/21/2014 19:30 Sampling Date: 04/21/2014 09:20 Sample Depth: --- Lab Matrix: Water Sample Type: 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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1408871-08	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-11-1 Sampled By: Blaine Tech of BAT	Receive Date: 04/21/2014 19:30 Sampling Date: 04/21/2014 10:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-11-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1408871-09	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-14-5 Sampled By: Blaine Tech of BAT	Receive Date: 04/21/2014 19:30 Sampling Date: 04/21/2014 11:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-14-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1408871-10	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-14-4 Sampled By: Blaine Tech of BAT	Receive Date: 04/21/2014 19:30 Sampling Date: 04/21/2014 11:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-14-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1408871-11	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-14-3 Sampled By: Blaine Tech of BAT	Receive Date: 04/21/2014 19:30 Sampling Date: 04/21/2014 12:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-14-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1408871-12	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-14-2 Sampled By: Blaine Tech of BAT	Receive Date: 04/21/2014 19:30 Sampling Date: 04/21/2014 13:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-14-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1408871-13	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: Dup-1-2Q14 Sampled By: Blaine Tech of BAT	Receive Date: 04/21/2014 19:30 Sampling Date: 04/21/2014 13:15 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): Dup-1-2Q14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1408871-14	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-14-1 Sampled By: Blaine Tech of BAT	Receive Date: 04/21/2014 19:30 Sampling Date: 04/21/2014 14:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-14-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-01	Client Sample Name: JPL-GW, TB-1-4/21/14, 4/21/2014 6:30:00AM, Blaine Tech
----------------------------------	---

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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-01	Client Sample Name: JPL-GW, TB-1-4/21/14, 4/21/2014 6:30:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	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: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-01	Client Sample Name: JPL-GW, TB-1-4/21/14, 4/21/2014 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	V11	1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	97.4	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.6	%	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	04/23/14	04/23/14 11:37	MGC	MS-V5	1	BXD1729

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1408871-01	Client Sample Name: JPL-GW, TB-1-4/21/14, 4/21/2014 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	04/23/14	04/23/14 11:37	MGC	MS-V5	1	BXD1729

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Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-02	Client Sample Name: JPL-GW, EB-1-4/21/14, 4/21/2014 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		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: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-02	Client Sample Name: JPL-GW, EB-1-4/21/14, 4/21/2014 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: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-02	Client Sample Name: JPL-GW, EB-1-4/21/14, 4/21/2014 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	V11	1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.4	%	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	04/23/14	04/23/14 13:07	MGC	MS-V5	1	BXD1729

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Tidewater Inc.
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Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1408871-02	Client Sample Name: JPL-GW, EB-1-4/21/14, 4/21/2014 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	04/23/14	04/23/14 13:07	MGC	MS-V5	1	BXD1729

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Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1408871-02	Client Sample Name: JPL-GW, EB-1-4/21/14, 4/21/2014 6:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	ND	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	0.031	mg/L	0.050	0.020	EPA-200.7	ND	J	2
Total Recoverable Sodium	0.037	mg/L	0.50	0.017	EPA-200.7	0.047	J	1
Total Recoverable Potassium	ND	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	ND	mg/L	5.0	5.0	SM-2320B	ND		3
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		3
Total Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	ND	mg/L	0.50	0.067	EPA-300.0	ND		4
Nitrate as N	ND	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	ND	mg/L	1.0	0.18	EPA-300.0	ND		4
pH	6.30	pH Units	0.05	0.05	EPA-150.1		S05	5
Total Dissolved Solids @ 180 C	ND	mg/L	6.7	6.7	EPA-160.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		7
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		8

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	04/23/14	04/25/14	21:45	JRG	PE-OP2	1	BXD1914
2	EPA-200.7	04/23/14	04/28/14	20:44	JRG	PE-OP2	1	BXD1914
3	SM-2320B	04/22/14	04/22/14	16:00	RML	MET-1	1	BXD1782
4	EPA-300.0	04/21/14	04/22/14	02:10	LD1	IC2	1	BXD1769
5	EPA-150.1	04/22/14	04/22/14	16:00	RML	MET-1	1	BXD1782
6	EPA-160.1	04/25/14	04/25/14	13:30	FRP	MANUAL	0.667	BXD2240
7	EPA-353.2	04/22/14	04/22/14	08:17	TDC	KONE-1	1	BXD1533
8	EPA-314.0	04/28/14	04/29/14	02:52	OLH	IC6	1	BXD2508

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Tidewater Inc.
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Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1408871-02	Client Sample Name: JPL-GW, EB-1-4/21/14, 4/21/2014 6:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00094	mg/L	0.0020	0.00070	EPA-7196	0.00094	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	ND	ug/L	50	6.5	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/21/14	04/21/14 22:22	OLH	KONE-1	1	BXD1825
2	EPA-200.8	04/24/14	04/30/14 15:23	SRM	PE-EL2	1	BXD2050
3	EPA-200.7	04/23/14	04/25/14 21:45	JRG	PE-OP2	1	BXD1914

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Tidewater Inc.
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Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-03 Client Sample Name: JPL-GW, SB-1-4/21/14, 4/21/2014 6:45:00AM, Blaine Tech

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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-03	Client Sample Name: JPL-GW, SB-1-4/21/14, 4/21/2014 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		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-03	Client Sample Name: JPL-GW, SB-1-4/21/14, 4/21/2014 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	V11	1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/23/14	04/23/14 13:30	MGC	MS-V5	1	BXD1729

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Tidewater Inc.
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Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1408871-03	Client Sample Name: JPL-GW, SB-1-4/21/14, 4/21/2014 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	04/23/14	04/23/14 13:30	MGC	MS-V5	1	BXD1729

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1408871-03		Client Sample Name: JPL-GW, SB-1-4/21/14, 4/21/2014 6:45:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	ND	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	0.040	mg/L	0.050	0.020	EPA-200.7	ND	J	2
Total Recoverable Sodium	0.040	mg/L	0.50	0.017	EPA-200.7	0.047	J	1
Total Recoverable Potassium	ND	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	ND	mg/L	5.0	5.0	SM-2320B	ND		3
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		3
Total Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	ND	mg/L	0.50	0.067	EPA-300.0	ND		4
Nitrate as N	ND	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	ND	mg/L	1.0	0.18	EPA-300.0	ND		4
pH	5.45	pH Units	0.05	0.05	EPA-150.1		S05	5
Total Dissolved Solids @ 180 C	ND	mg/L	6.7	6.7	EPA-160.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		7
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		8

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	04/23/14	04/25/14	21:48	JRG	PE-OP2	1	BXD1914
2	EPA-200.7	04/23/14	04/28/14	20:47	JRG	PE-OP2	1	BXD1914
3	SM-2320B	04/22/14	04/22/14	16:21	RML	MET-1	1	BXD1819
4	EPA-300.0	04/21/14	04/22/14	02:25	LD1	IC2	1	BXD1769
5	EPA-150.1	04/22/14	04/22/14	16:21	RML	MET-1	1	BXD1819
6	EPA-160.1	04/25/14	04/25/14	13:30	FRP	MANUAL	0.667	BXD2240
7	EPA-353.2	04/22/14	04/22/14	08:17	TDC	KONE-1	1	BXD1533
8	EPA-314.0	04/28/14	04/29/14	21:21	OLH	IC6	1	BXD2508

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1408871-03	Client Sample Name: JPL-GW, SB-1-4/21/14, 4/21/2014 6:45:00AM, 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	0.00094		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	ND	ug/L	50	6.5	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/21/14	04/21/14 22:22	OLH	KONE-1	1	BXD1825
2	EPA-200.8	04/24/14	04/30/14 15:26	SRM	PE-EL2	1	BXD2050
3	EPA-200.7	04/23/14	04/25/14 21:48	JRG	PE-OP2	1	BXD1914

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3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-04	Client Sample Name: JPL-GW, MW-11-5, 4/21/2014 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		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: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-04	Client Sample Name: JPL-GW, MW-11-5, 4/21/2014 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	0.10	ug/L	0.50	0.068	EPA-524.2	ND	J	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-04	Client Sample Name: JPL-GW, MW-11-5, 4/21/2014 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	V11	1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.4	%	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	04/23/14	04/23/14 13:53	MGC	MS-V5	1	BXD1729

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1408871-04	Client Sample Name: JPL-GW, MW-11-5, 4/21/2014 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	04/23/14	04/23/14 13:53	MGC	MS-V5	1	BXD1729

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1408871-04		Client Sample Name: JPL-GW, MW-11-5, 4/21/2014 7:30:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	22	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	2.5	mg/L	0.050	0.020	EPA-200.7	ND		2
Total Recoverable Sodium	51	mg/L	0.50	0.017	EPA-200.7	0.047		1
Total Recoverable Potassium	1.2	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	160	mg/L	5.0	5.0	SM-2320B	ND		3
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		3
Total Alkalinity as CaCO3	130	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	10	mg/L	0.50	0.067	EPA-300.0	ND		4
Nitrate as N	0.089	mg/L	0.10	0.025	EPA-300.0	ND	J	4
Sulfate	17	mg/L	1.0	0.18	EPA-300.0	ND		4
pH	8.27	pH Units	0.05	0.05	EPA-150.1		S05	5
Total Dissolved Solids @ 180 C	180	mg/L	20	20	EPA-160.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		7
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		8

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	04/23/14	04/25/14	21:51	JRG	PE-OP2	1	BXD1914
2	EPA-200.7	04/23/14	04/28/14	20:49	JRG	PE-OP2	1	BXD1914
3	SM-2320B	04/22/14	04/22/14	16:31	RML	MET-1	1	BXD1819
4	EPA-300.0	04/21/14	04/22/14	02:40	LD1	IC2	1	BXD1769
5	EPA-150.1	04/22/14	04/22/14	16:31	RML	MET-1	1	BXD1819
6	EPA-160.1	04/25/14	04/25/14	13:30	FRP	MANUAL	2	BXD2240
7	EPA-353.2	04/22/14	04/22/14	08:17	TDC	KONE-1	1	BXD1533
8	EPA-314.0	04/28/14	04/29/14	00:20	OLH	IC6	1	BXD2508

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1408871-04	Client Sample Name: JPL-GW, MW-11-5, 4/21/2014 7:30:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0013	mg/L	0.0020	0.00070	EPA-7196	0.00094	J	1
Total Recoverable Arsenic	5.8	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	4.0	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	1900	ug/L	50	6.5	EPA-200.7	ND		3
Total Recoverable Lead	1.2	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/21/14	04/21/14 22:22	OLH	KONE-1	1	BXD1825
2	EPA-200.8	04/24/14	04/30/14 15:29	SRM	PE-EL2	1	BXD2050
3	EPA-200.7	04/23/14	04/25/14 21:51	JRG	PE-OP2	1	BXD1914

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-05	Client Sample Name: JPL-GW, MW-11-4, 4/21/2014 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		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: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-05		Client Sample Name: JPL-GW, MW-11-4, 4/21/2014 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	0.16	ug/L	0.50	0.068	EPA-524.2	ND	J	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	0.38	ug/L	1.0	0.38	EPA-524.2	ND	J	1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-05	Client Sample Name: JPL-GW, MW-11-4, 4/21/2014 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	V11	1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/23/14	04/23/14 14:15	MGC	MS-V5	1	BXD1729

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1408871-05	Client Sample Name: JPL-GW, MW-11-4, 4/21/2014 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	04/23/14	04/23/14 14:15	MGC	MS-V5	1	BXD1729

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1408871-05		Client Sample Name: JPL-GW, MW-11-4, 4/21/2014 8:10:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	13	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	11	mg/L	0.050	0.020	EPA-200.7	ND		2
Total Recoverable Sodium	26	mg/L	0.50	0.017	EPA-200.7	0.047		1
Total Recoverable Potassium	2.0	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	130	mg/L	5.0	5.0	SM-2320B	ND		3
Carbonate	7.7	mg/L	2.5	2.5	SM-2320B	ND		3
Total Alkalinity as CaCO3	120	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	11	mg/L	0.50	0.067	EPA-300.0	ND		4
Nitrate as N	ND	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	1.6	mg/L	1.0	0.18	EPA-300.0	ND		4
pH	8.72	pH Units	0.05	0.05	EPA-150.1		S05	5
Total Dissolved Solids @ 180 C	150	mg/L	10	10	EPA-160.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		7
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		8

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-200.7	04/23/14	04/25/14 21:54	JRG	PE-OP2	1	BXD1914
2	EPA-200.7	04/23/14	04/28/14 20:52	JRG	PE-OP2	1	BXD1914
3	SM-2320B	04/22/14	04/22/14 16:36	RML	MET-1	1	BXD1819
4	EPA-300.0	04/21/14	04/22/14 02:55	LD1	IC2	1	BXD1769
5	EPA-150.1	04/22/14	04/22/14 16:36	RML	MET-1	1	BXD1819
6	EPA-160.1	04/25/14	04/25/14 13:30	FRP	MANUAL	1	BXD2240
7	EPA-353.2	04/22/14	04/22/14 08:17	TDC	KONE-1	1	BXD1533
8	EPA-314.0	05/02/14	05/02/14 22:14	OLH	IC6	1	BXE0275

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1408871-05	Client Sample Name: JPL-GW, MW-11-4, 4/21/2014 8:10:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00097	mg/L	0.0020	0.00070	EPA-7196	0.00094	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	0.93	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	13	ug/L	50	6.5	EPA-200.7	ND	J	3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/21/14	04/21/14 22:22	OLH	KONE-1	1	BXD1825
2	EPA-200.8	04/24/14	04/30/14 15:33	SRM	PE-EL2	1	BXD2050
3	EPA-200.7	04/23/14	04/25/14 21:54	JRG	PE-OP2	1	BXD1914

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-06	Client Sample Name: JPL-GW, MW-11-3, 4/21/2014 8:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-06	Client Sample Name: JPL-GW, MW-11-3, 4/21/2014 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	0.11	ug/L	0.50	0.068	EPA-524.2	ND	J	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.090	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-06	Client Sample Name: JPL-GW, MW-11-3, 4/21/2014 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	V11	1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	99.8	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.8	%	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	04/23/14	04/23/14 14:38	MGC	MS-V5	1	BXD1729

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1408871-06	Client Sample Name: JPL-GW, MW-11-3, 4/21/2014 8:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/23/14	04/23/14 14:38	MGC	MS-V5	1	BXD1729

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1408871-06		Client Sample Name: JPL-GW, MW-11-3, 4/21/2014 8:45:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	40	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	13	mg/L	0.050	0.020	EPA-200.7	ND		2
Total Recoverable Sodium	28	mg/L	0.50	0.017	EPA-200.7	0.047		1
Total Recoverable Potassium	2.1	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	200	mg/L	5.0	5.0	SM-2320B	ND		3
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		3
Total Alkalinity as CaCO3	160	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	11	mg/L	0.50	0.067	EPA-300.0	ND		4
Nitrate as N	0.049	mg/L	0.10	0.025	EPA-300.0	ND	J	4
Sulfate	21	mg/L	1.0	0.18	EPA-300.0	ND		4
pH	8.15	pH Units	0.05	0.05	EPA-150.1		S05	5
Total Dissolved Solids @ 180 C	280	mg/L	20	20	EPA-160.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		7
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		8

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	04/23/14	04/25/14	21:56	JRG	PE-OP2	1	BXD1914
2	EPA-200.7	04/23/14	04/28/14	20:55	JRG	PE-OP2	1	BXD1914
3	SM-2320B	04/22/14	04/22/14	16:42	RML	MET-1	1	BXD1819
4	EPA-300.0	04/21/14	04/22/14	03:41	LD1	IC2	1	BXD1769
5	EPA-150.1	04/22/14	04/22/14	16:42	RML	MET-1	1	BXD1819
6	EPA-160.1	04/25/14	04/25/14	13:30	FRP	MANUAL	2	BXD2240
7	EPA-353.2	04/22/14	04/22/14	08:22	TDC	KONE-1	1	BXD1533
8	EPA-314.0	04/28/14	04/29/14	00:47	OLH	IC6	1	BXD2508

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1408871-06	Client Sample Name: JPL-GW, MW-11-3, 4/21/2014 8:45:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00077	mg/L	0.0020	0.00070	EPA-7196	0.00094	J	1
Total Recoverable Arsenic	1.9	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	1.0	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	760	ug/L	50	6.5	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/21/14	04/21/14 22:26	OLH	KONE-1	1	BXD1825
2	EPA-200.8	04/24/14	04/30/14 15:36	SRM	PE-EL2	1	BXD2050
3	EPA-200.7	04/23/14	04/25/14 21:56	JRG	PE-OP2	1	BXD1914

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Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-07	Client Sample Name: JPL-GW, MW-11-2, 4/21/2014 9:20:00AM, 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		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: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-07	Client Sample Name: JPL-GW, MW-11-2, 4/21/2014 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		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-07	Client Sample Name: JPL-GW, MW-11-2, 4/21/2014 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	V11	1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	101	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	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	04/23/14	04/23/14 12:45	MGC	MS-V5	1	BXD1729

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1408871-07	Client Sample Name: JPL-GW, MW-11-2, 4/21/2014 9:20:00AM, 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	04/23/14	04/23/14 12:45	MGC	MS-V5	1	BXD1729

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1408871-07		Client Sample Name: JPL-GW, MW-11-2, 4/21/2014 9:20:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	54	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	18	mg/L	0.050	0.020	EPA-200.7	ND		1
Total Recoverable Sodium	24	mg/L	0.50	0.017	EPA-200.7	0.047		1
Total Recoverable Potassium	3.0	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	230	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	190	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	15	mg/L	0.50	0.067	EPA-300.0	ND		3
Nitrate as N	ND	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	36	mg/L	1.0	0.18	EPA-300.0	ND		3
pH	8.02	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	290	mg/L	20	20	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-200.7	04/23/14	04/25/14	21:10	JRG	PE-OP2	1	BXD1914	
2	SM-2320B	04/22/14	04/22/14	16:47	RML	MET-1	1	BXD1819	
3	EPA-300.0	04/21/14	04/22/14	01:09	LD1	IC2	1	BXD1769	
4	EPA-150.1	04/22/14	04/22/14	16:47	RML	MET-1	1	BXD1819	
5	EPA-160.1	04/25/14	04/25/14	13:30	FRP	MANUAL	2	BXD2241	
6	EPA-353.2	04/22/14	04/22/14	08:22	TDC	KONE-1	1	BXD1533	
7	EPA-314.0	04/28/14	04/29/14	01:57	OLH	IC6	1	BXD2508	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1408871-07	Client Sample Name: JPL-GW, MW-11-2, 4/21/2014 9:20:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00095	mg/L	0.0020	0.00070	EPA-7196	0.00094	J	1
Total Recoverable Arsenic	0.74	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	0.92	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	420	ug/L	50	6.5	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/21/14	04/21/14 22:22	OLH	KONE-1	1	BXD1825
2	EPA-200.8	04/24/14	04/30/14 14:39	SRM	PE-EL2	1	BXD2050
3	EPA-200.7	04/23/14	04/25/14 21:10	JRG	PE-OP2	1	BXD1914

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Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-08	Client Sample Name: JPL-GW, MW-11-1, 4/21/2014 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		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: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-08	Client Sample Name: JPL-GW, MW-11-1, 4/21/2014 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
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: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-08	Client Sample Name: JPL-GW, MW-11-1, 4/21/2014 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	V11	1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.9	%	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	04/23/14	04/23/14 15:00	MGC	MS-V5	1	BXD1729

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1408871-08	Client Sample Name: JPL-GW, MW-11-1, 4/21/2014 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	04/23/14	04/23/14 15:00	MGC	MS-V5	1	BXD1729

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1408871-08		Client Sample Name: JPL-GW, MW-11-1, 4/21/2014 10:00:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	49	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	19	mg/L	0.050	0.020	EPA-200.7	ND		2
Total Recoverable Sodium	24	mg/L	0.50	0.017	EPA-200.7	0.058		1
Total Recoverable Potassium	2.8	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	250	mg/L	5.0	5.0	SM-2320B	ND		3
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		3
Total Alkalinity as CaCO3	200	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	12	mg/L	0.50	0.067	EPA-300.0	ND		4
Nitrate as N	0.28	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	29	mg/L	1.0	0.18	EPA-300.0	ND		4
pH	7.81	pH Units	0.05	0.05	EPA-150.1		S05	5
Total Dissolved Solids @ 180 C	270	mg/L	20	20	EPA-160.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		7
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		8
ortho-Phosphate as P	0.022	mg/L	0.020	0.0040	EPA-365.1	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	04/23/14	04/28/14 21:29	JRG	PE-OP2	1	BXD1915
2	EPA-200.7	05/06/14	05/06/14 19:08	JRG	PE-OP2	1	BXE0471
3	SM-2320B	04/22/14	04/22/14 16:53	RML	MET-1	1	BXD1819
4	EPA-300.0	04/21/14	04/22/14 03:56	LD1	IC2	1	BXD1769
5	EPA-150.1	04/22/14	04/22/14 16:53	RML	MET-1	1	BXD1819
6	EPA-160.1	04/25/14	04/25/14 13:30	FRP	MANUAL	2	BXD2241
7	EPA-353.2	04/22/14	04/22/14 08:17	TDC	KONE-1	1	BXD1533
8	EPA-314.0	04/28/14	04/29/14 21:35	OLH	IC6	1	BXD2508
9	EPA-365.1	04/22/14	04/22/14 07:39	TDC	KONE-1	1	BXD1768

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1408871-08	Client Sample Name: JPL-GW, MW-11-1, 4/21/2014 10:00:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00073	mg/L	0.0020	0.00070	EPA-7196	0.00094	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	0.88		3
Total Recoverable Iron	260	ug/L	50	6.5	EPA-200.7	ND		4
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/21/14	04/21/14 22:26	OLH	KONE-1	1	BXD1825
2	EPA-200.8	04/25/14	04/30/14 05:59	SRM	PE-EL2	1	BXD2186
3	EPA-200.8	05/01/14	05/01/14 21:30	SRM	PE-EL2	1	BXE0110
4	EPA-200.7	04/23/14	04/29/14 21:14	JRG	PE-OP2	1	BXD1915

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Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-09	Client Sample Name: JPL-GW, MW-14-5, 4/21/2014 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		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.25	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-09	Client Sample Name: JPL-GW, MW-14-5, 4/21/2014 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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-09	Client Sample Name: JPL-GW, MW-14-5, 4/21/2014 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	V11	1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	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	04/23/14	04/23/14 15:23	MGC	MS-V5	1	BXD1729

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Tidewater Inc.
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Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1408871-09	Client Sample Name: JPL-GW, MW-14-5, 4/21/2014 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	04/23/14	04/23/14 15:23	MGC	MS-V5	1	BXD1729

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Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1408871-09		Client Sample Name: JPL-GW, MW-14-5, 4/21/2014 11:00:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	20	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	14	mg/L	0.050	0.020	EPA-200.7	ND		2
Total Recoverable Sodium	33	mg/L	0.50	0.017	EPA-200.7	0.058		1
Total Recoverable Potassium	2.0	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	160	mg/L	5.0	5.0	SM-2320B	ND		3
Carbonate	3.5	mg/L	2.5	2.5	SM-2320B	ND		3
Total Alkalinity as CaCO3	140	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	11	mg/L	0.50	0.067	EPA-300.0	ND		4
Nitrate as N	0.19	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	18	mg/L	1.0	0.18	EPA-300.0	ND		4
pH	8.42	pH Units	0.05	0.05	EPA-150.1		S05	5
Total Dissolved Solids @ 180 C	200	mg/L	20	20	EPA-160.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		7
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		8

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-200.7	04/23/14	04/28/14	21:40	JRG	PE-OP2	1	BXD1915	
2	EPA-200.7	05/06/14	05/06/14	19:23	JRG	PE-OP2	1	BXE0471	
3	SM-2320B	04/22/14	04/22/14	17:04	RML	MET-1	1	BXD1819	
4	EPA-300.0	04/21/14	04/22/14	04:11	LD1	IC2	1	BXD1769	
5	EPA-150.1	04/22/14	04/22/14	17:04	RML	MET-1	1	BXD1819	
6	EPA-160.1	04/25/14	04/25/14	13:30	FRP	MANUAL	2	BXD2241	
7	EPA-353.2	04/22/14	04/22/14	08:22	TDC	KONE-1	1	BXD1533	
8	EPA-314.0	05/02/14	05/02/14	22:28	OLH	IC6	1	BXE0275	

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Tidewater Inc.
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Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1408871-09	Client Sample Name: JPL-GW, MW-14-5, 4/21/2014 11:00:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0011	mg/L	0.0020	0.00070	EPA-7196	0.00094	J	1
Total Recoverable Arsenic	0.97	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	0.88		3
Total Recoverable Iron	40	ug/L	50	6.5	EPA-200.7	ND	J	4
Total Recoverable Lead	0.66	ug/L	1.0	0.10	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/21/14	04/21/14 22:26	OLH	KONE-1	1	BXD1825
2	EPA-200.8	04/25/14	04/30/14 06:02	SRM	PE-EL2	1	BXD2186
3	EPA-200.8	05/01/14	05/01/14 21:33	SRM	PE-EL2	1	BXE0110
4	EPA-200.7	04/23/14	04/29/14 21:25	JRG	PE-OP2	1	BXD1915

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Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-10	Client Sample Name: JPL-GW, MW-14-4, 4/21/2014 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		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.33	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.21	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	0.17	ug/L	0.50	0.085	EPA-524.2	ND	J	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-10	Client Sample Name: JPL-GW, MW-14-4, 4/21/2014 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
Tetrachloroethene	0.39	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.42	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND	V11	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: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-10	Client Sample Name: JPL-GW, MW-14-4, 4/21/2014 11:45:00AM, 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	V11	1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	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)	102	%	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	04/23/14	04/23/14 22:56	MGC	MS-V5	1	BXD1730

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1408871-10	Client Sample Name: JPL-GW, MW-14-4, 4/21/2014 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	04/23/14	04/23/14 22:56	MGC	MS-V5	1	BXD1730

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1408871-10		Client Sample Name: JPL-GW, MW-14-4, 4/21/2014 11:45:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	74	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	27	mg/L	0.050	0.020	EPA-200.7	ND		2
Total Recoverable Sodium	31	mg/L	0.50	0.017	EPA-200.7	0.058		1
Total Recoverable Potassium	2.3	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	210	mg/L	5.0	5.0	SM-2320B	ND		3
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		3
Total Alkalinity as CaCO3	170	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	60	mg/L	0.50	0.067	EPA-300.0	ND		4
Nitrate as N	12	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	63	mg/L	1.0	0.18	EPA-300.0	ND		4
pH	7.96	pH Units	0.05	0.05	EPA-150.1		S05	5
Total Dissolved Solids @ 180 C	420	mg/L	33	33	EPA-160.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		7
Perchlorate	4.1	ug/L	4.0	0.45	EPA-314.0	ND		8

Run #	Method	Prep Date	Run		Instrument	Dilution	QC	
			Date/Time	Analyst			Batch ID	
1	EPA-200.7	04/23/14	04/28/14 21:12	JRG	PE-OP2	1	BXD1915	
2	EPA-200.7	05/06/14	05/06/14 19:33	JRG	PE-OP2	1	BXE0471	
3	SM-2320B	04/22/14	04/22/14 17:13	RML	MET-1	1	BXD1819	
4	EPA-300.0	04/21/14	04/22/14 04:56	LD1	IC2	1	BXD1770	
5	EPA-150.1	04/22/14	04/22/14 17:13	RML	MET-1	1	BXD1819	
6	EPA-160.1	04/25/14	04/25/14 13:30	FRP	MANUAL	3.333	BXD2241	
7	EPA-353.2	04/22/14	04/22/14 08:22	TDC	KONE-1	1	BXD1533	
8	EPA-314.0	05/02/14	05/02/14 22:42	OLH	IC6	1	BXE0275	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1408871-10	Client Sample Name: JPL-GW, MW-14-4, 4/21/2014 11:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0031	mg/L	0.0020	0.00070	EPA-7196	0.00073		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	2.1	ug/L	3.0	0.50	EPA-200.8	0.88	J	3
Total Recoverable Iron	ND	ug/L	50	6.5	EPA-200.7	ND		4
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/21/14	04/21/14 21:59	OLH	KONE-1	1	BXD1827
2	EPA-200.8	04/25/14	04/30/14 05:23	SRM	PE-EL2	1	BXD2186
3	EPA-200.8	05/01/14	05/01/14 21:36	SRM	PE-EL2	1	BXE0110
4	EPA-200.7	04/23/14	04/29/14 20:57	JRG	PE-OP2	1	BXD1915

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3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-11	Client Sample Name: JPL-GW, MW-14-3, 4/21/2014 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.51	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.28	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	0.12	ug/L	0.50	0.085	EPA-524.2	ND	J	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-11	Client Sample Name: JPL-GW, MW-14-3, 4/21/2014 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.53	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	1.6	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-11	Client Sample Name: JPL-GW, MW-14-3, 4/21/2014 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND	V11	1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	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	04/23/14	04/23/14 15:46	MGC	MS-V5	1	BXD1729

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1408871-11	Client Sample Name: JPL-GW, MW-14-3, 4/21/2014 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/23/14	04/23/14 15:46	MGC	MS-V5	1	BXD1729

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1408871-11	Client Sample Name: JPL-GW, MW-14-3, 4/21/2014 12:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	120	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	53	mg/L	0.050	0.020	EPA-200.7	ND		2
Total Recoverable Sodium	42	mg/L	0.50	0.017	EPA-200.7	0.058		1
Total Recoverable Potassium	2.9	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	290	mg/L	10	10	SM-2320B	ND		3
Carbonate	ND	mg/L	5.0	5.0	SM-2320B	ND		3
Total Alkalinity as CaCO3	240	mg/L	8.2	8.2	SM-2320B	ND		3
Chloride	110	mg/L	0.50	0.067	EPA-300.0	ND		4
Nitrate as N	14	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	160	mg/L	1.0	0.18	EPA-300.0	ND		4
pH	7.89	pH Units	0.05	0.05	EPA-150.1		S05	5
Total Dissolved Solids @ 180 C	760	mg/L	50	50	EPA-160.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		7
Perchlorate	5.9	ug/L	4.0	0.45	EPA-314.0	ND		8

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	04/23/14	04/28/14	21:43	JRG	PE-OP2	1	BXD1915
2	EPA-200.7	05/06/14	05/06/14	19:36	JRG	PE-OP2	1	BXE0471
3	SM-2320B	04/22/14	04/22/14	17:32	RML	MET-1	2	BXD1819
4	EPA-300.0	04/21/14	04/22/14	09:02	LD1	IC2	1	BXD1770
5	EPA-150.1	04/22/14	04/22/14	17:32	RML	MET-1	1	BXD1819
6	EPA-160.1	04/25/14	04/25/14	13:30	FRP	MANUAL	5	BXD2241
7	EPA-353.2	04/22/14	04/22/14	08:22	TDC	KONE-1	1	BXD1533
8	EPA-314.0	05/02/14	05/03/14	00:19	OLH	IC6	1	BXE0275

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1408871-11	Client Sample Name: JPL-GW, MW-14-3, 4/21/2014 12:30:00PM, 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	0.00073	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	0.88		3
Total Recoverable Iron	15	ug/L	50	6.5	EPA-200.7	ND	J	4
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/21/14	04/21/14 21:59	OLH	KONE-1	1	BXD1827
2	EPA-200.8	04/25/14	04/30/14 06:05	SRM	PE-EL2	1	BXD2186
3	EPA-200.8	05/01/14	05/01/14 21:39	SRM	PE-EL2	1	BXE0110
4	EPA-200.7	04/23/14	04/29/14 21:28	JRG	PE-OP2	1	BXD1915

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-12	Client Sample Name: JPL-GW, MW-14-2, 4/21/2014 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		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.92	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.29	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	0.37	ug/L	0.50	0.085	EPA-524.2	ND	J	1
trans-1,2-Dichloroethene	0.27	ug/L	0.50	0.15	EPA-524.2	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: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-12	Client Sample Name: JPL-GW, MW-14-2, 4/21/2014 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	1.0	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	8.5	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-12	Client Sample Name: JPL-GW, MW-14-2, 4/21/2014 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	V11	1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	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	04/23/14	04/23/14 16:08	MGC	MS-V5	1	BXD1729

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1408871-12	Client Sample Name: JPL-GW, MW-14-2, 4/21/2014 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	04/23/14	04/23/14 16:08	MGC	MS-V5	1	BXD1729

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Tidewater Inc.
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Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1408871-12		Client Sample Name: JPL-GW, MW-14-2, 4/21/2014 1:00:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	140	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	49	mg/L	0.050	0.020	EPA-200.7	ND		2
Total Recoverable Sodium	42	mg/L	0.50	0.017	EPA-200.7	0.058		1
Total Recoverable Potassium	2.8	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	290	mg/L	10	10	SM-2320B	ND		3
Carbonate	ND	mg/L	5.0	5.0	SM-2320B	ND		3
Total Alkalinity as CaCO3	240	mg/L	8.2	8.2	SM-2320B	ND		3
Chloride	110	mg/L	0.50	0.067	EPA-300.0	ND		4
Nitrate as N	13	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	180	mg/L	1.0	0.18	EPA-300.0	ND		4
pH	7.67	pH Units	0.05	0.05	EPA-150.1		S05	5
Total Dissolved Solids @ 180 C	800	mg/L	50	50	EPA-160.1	ND		6
Nitrite as N	0.35	mg/L	0.050	0.012	EPA-353.2	ND		7
Perchlorate	4.1	ug/L	4.0	0.45	EPA-314.0	ND		8

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	04/23/14	04/28/14	21:46	JRG	PE-OP2	1	BXD1915
2	EPA-200.7	05/06/14	05/06/14	19:38	JRG	PE-OP2	1	BXE0471
3	SM-2320B	04/22/14	04/22/14	17:37	RML	MET-1	2	BXD1819
4	EPA-300.0	04/21/14	04/22/14	09:17	LD1	IC2	1	BXD1770
5	EPA-150.1	04/22/14	04/22/14	17:37	RML	MET-1	1	BXD1819
6	EPA-160.1	04/25/14	04/25/14	13:30	FRP	MANUAL	5	BXD2241
7	EPA-353.2	04/22/14	04/22/14	08:23	TDC	KONE-1	1	BXD1765
8	EPA-314.0	05/02/14	05/03/14	00:33	OLH	IC6	1	BXE0275

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1408871-12	Client Sample Name: JPL-GW, MW-14-2, 4/21/2014 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0016	mg/L	0.0020	0.00070	EPA-7196	0.00073	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	2.2	ug/L	3.0	0.50	EPA-200.8	0.88	J	3
Total Recoverable Iron	ND	ug/L	50	6.5	EPA-200.7	ND		4
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/21/14	04/21/14 22:03	OLH	KONE-1	1	BXD1827
2	EPA-200.8	04/25/14	04/30/14 06:08	SRM	PE-EL2	1	BXD2186
3	EPA-200.8	05/01/14	05/01/14 21:43	SRM	PE-EL2	1	BXE0110
4	EPA-200.7	04/23/14	04/29/14 21:31	JRG	PE-OP2	1	BXD1915

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-13 **Client Sample Name:** JPL-GW, Dup-1-2Q14, 4/21/2014 1:15:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.91	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.28	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	0.34	ug/L	0.50	0.085	EPA-524.2	ND	J	1
trans-1,2-Dichloroethene	0.23	ug/L	0.50	0.15	EPA-524.2	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: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-13	Client Sample Name: JPL-GW, Dup-1-2Q14, 4/21/2014 1:15:00PM, 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
Tetrachloroethene	0.89	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	7.7	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-13	Client Sample Name: JPL-GW, Dup-1-2Q14, 4/21/2014 1:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND	V11	1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/23/14	04/23/14 16:31	MGC	MS-V5	1	BXD1729

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1408871-13 **Client Sample Name:** JPL-GW, Dup-1-2Q14, 4/21/2014 1:15:00PM, Blaine Tech

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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/23/14	04/23/14 16:31	MGC	MS-V5	1	BXD1729

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID:	1408871-13	Client Sample Name:	JPL-GW, Dup-1-2Q14, 4/21/2014 1:15:00PM, Blaine Tech					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	140	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	51	mg/L	0.050	0.020	EPA-200.7	ND		2
Total Recoverable Sodium	41	mg/L	0.50	0.017	EPA-200.7	0.058		1
Total Recoverable Potassium	2.8	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	290	mg/L	10	10	SM-2320B	ND		3
Carbonate	ND	mg/L	5.0	5.0	SM-2320B	ND		3
Total Alkalinity as CaCO3	240	mg/L	8.2	8.2	SM-2320B	ND		3
Chloride	120	mg/L	0.50	0.067	EPA-300.0	ND		4
Nitrate as N	13	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	190	mg/L	1.0	0.18	EPA-300.0	ND		4
pH	7.65	pH Units	0.05	0.05	EPA-150.1		S05	5
Total Dissolved Solids @ 180 C	800	mg/L	50	50	EPA-160.1	ND		6
Nitrite as N	0.36	mg/L	0.050	0.012	EPA-353.2	ND		7
Perchlorate	3.8	ug/L	4.0	0.45	EPA-314.0	ND	J	8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	04/23/14	04/28/14 21:48	JRG	PE-OP2	1	BXD1915
2	EPA-200.7	05/06/14	05/06/14 19:41	JRG	PE-OP2	1	BXE0471
3	SM-2320B	04/23/14	04/23/14 22:46	RML	MET-1	2	BXD1963
4	EPA-300.0	04/21/14	04/22/14 09:33	LD1	IC2	1	BXD1770
5	EPA-150.1	04/23/14	04/23/14 22:46	RML	MET-1	1	BXD1963
6	EPA-160.1	04/25/14	04/25/14 13:30	FRP	MANUAL	5	BXD2241
7	EPA-353.2	04/22/14	04/22/14 08:28	TDC	KONE-1	1	BXD1765
8	EPA-314.0	05/02/14	05/03/14 00:47	OLH	IC6	1	BXE0275

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1408871-13	Client Sample Name: JPL-GW, Dup-1-2Q14, 4/21/2014 1:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0019	mg/L	0.0020	0.00070	EPA-7196	0.00073	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	0.88		3
Total Recoverable Iron	ND	ug/L	50	6.5	EPA-200.7	ND		4
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/21/14	04/21/14 22:03	OLH	KONE-1	1	BXD1827
2	EPA-200.8	04/25/14	04/30/14 06:12	SRM	PE-EL2	1	BXD2186
3	EPA-200.8	05/01/14	05/01/14 21:46	SRM	PE-EL2	1	BXE0110
4	EPA-200.7	04/23/14	04/29/14 21:34	JRG	PE-OP2	1	BXD1915

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Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-14	Client Sample Name: JPL-GW, MW-14-1, 4/21/2014 2:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.55	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	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: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-14	Client Sample Name: JPL-GW, MW-14-1, 4/21/2014 2:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	0.15	ug/L	0.50	0.11	EPA-524.2	ND	J	1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.27	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	2.2	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408871-14	Client Sample Name: JPL-GW, MW-14-1, 4/21/2014 2:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND	V11	1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	104	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/23/14	04/23/14 16:53	MGC	MS-V5	1	BXD1729

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1408871-14	Client Sample Name: JPL-GW, MW-14-1, 4/21/2014 2:00:00PM, Blaine Tech
----------------------------------	--

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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/23/14	04/23/14 16:53	MGC	MS-V5	1	BXD1729

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

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

Table with 8 columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID. Rows correspond to runs 1 through 8.

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1408871-14	Client Sample Name: JPL-GW, MW-14-1, 4/21/2014 2:00:00PM, 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	0.00073		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	0.72	ug/L	3.0	0.50	EPA-200.8	0.88	J	3
Total Recoverable Iron	350	ug/L	50	6.5	EPA-200.7	ND		4
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/21/14	04/21/14 22:03	OLH	KONE-1	1	BXD1827
2	EPA-200.8	04/25/14	04/30/14 06:15	SRM	PE-EL2	1	BXD2186
3	EPA-200.8	05/01/14	05/01/14 21:49	SRM	PE-EL2	1	BXE0110
4	EPA-200.7	04/23/14	04/29/14 21:37	JRG	PE-OP2	1	BXD1915

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD1729						
Benzene	BXD1729-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXD1729-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXD1729-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXD1729-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXD1729-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXD1729-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXD1729-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXD1729-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXD1729-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXD1729-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXD1729-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXD1729-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXD1729-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXD1729-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXD1729-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXD1729-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BXD1729-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXD1729-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXD1729-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXD1729-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXD1729-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXD1729-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXD1729-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXD1729-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXD1729-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXD1729-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXD1729-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXD1729-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXD1729-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXD1729-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXD1729-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXD1729-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXD1729-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXD1729-BLK1	ND	ug/L	0.50	0.14	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD1729						
trans-1,3-Dichloropropene	BXD1729-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXD1729-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXD1729-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXD1729-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXD1729-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXD1729-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXD1729-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXD1729-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXD1729-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXD1729-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXD1729-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BXD1729-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BXD1729-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXD1729-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXD1729-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXD1729-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BXD1729-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXD1729-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXD1729-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXD1729-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXD1729-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXD1729-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXD1729-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXD1729-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXD1729-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXD1729-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXD1729-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXD1729-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXD1729-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXD1729-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXD1729-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXD1729-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXD1729-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXD1729-BLK1	ND	ug/L	4.0	0.97	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
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QC Batch ID: BXD1729

Ethyl t-butyl ether	BXD1729-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXD1729-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXD1729-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXD1729-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXD1729-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXD1729-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXD1729-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXD1729-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXD1729-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXD1729-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXD1729-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXD1729-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXD1729-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BXD1729-BLK1	99.8	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BXD1729-BLK1	98.9	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BXD1729-BLK1	95.6	%	80 - 120 (LCL - UCL)		

QC Batch ID: BXD1730

Benzene	BXD1730-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXD1730-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXD1730-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXD1730-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXD1730-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXD1730-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXD1730-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXD1730-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXD1730-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXD1730-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXD1730-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXD1730-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXD1730-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXD1730-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXD1730-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXD1730-BLK1	ND	ug/L	0.50	0.15	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD1730						
Dibromochloromethane	BXD1730-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXD1730-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXD1730-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXD1730-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXD1730-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXD1730-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXD1730-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXD1730-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXD1730-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXD1730-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXD1730-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXD1730-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXD1730-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXD1730-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXD1730-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXD1730-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXD1730-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXD1730-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	BXD1730-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXD1730-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXD1730-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXD1730-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXD1730-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXD1730-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXD1730-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXD1730-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXD1730-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXD1730-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXD1730-BLK1	ND	ug/L	0.50	0.18	
1,1,1,2,2-Tetrachloroethane	BXD1730-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BXD1730-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXD1730-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXD1730-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXD1730-BLK1	ND	ug/L	0.50	0.19	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Table with 7 columns: Constituent, QC Sample ID, MB Result, Units, PQL, MDL, Lab Quals. Includes a QC Batch ID: BXD1730 and a list of 30 chemical constituents with their respective results and limits.

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXD1729										
Benzene	BXD1729-BS1	LCS	24.750	25.000	ug/L	99.0		70 - 130		
Bromodichloromethane	BXD1729-BS1	LCS	32.060	25.000	ug/L	128		70 - 130		
Chlorobenzene	BXD1729-BS1	LCS	26.940	25.000	ug/L	108		70 - 130		
Chloroethane	BXD1729-BS1	LCS	27.310	25.000	ug/L	109		70 - 130		
1,4-Dichlorobenzene	BXD1729-BS1	LCS	31.570	25.000	ug/L	126		70 - 130		
1,1-Dichloroethane	BXD1729-BS1	LCS	26.570	25.000	ug/L	106		70 - 130		
1,1-Dichloroethene	BXD1729-BS1	LCS	26.920	25.000	ug/L	108		70 - 130		
Toluene	BXD1729-BS1	LCS	26.500	25.000	ug/L	106		70 - 130		
Trichloroethene	BXD1729-BS1	LCS	29.120	25.000	ug/L	116		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXD1729-BS1	LCS	10.450	10.000	ug/L	104		75 - 125		
Toluene-d8 (Surrogate)	BXD1729-BS1	LCS	10.120	10.000	ug/L	101		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXD1729-BS1	LCS	10.910	10.000	ug/L	109		80 - 120		

QC Batch ID: BXD1730										
Benzene	BXD1730-BS1	LCS	23.120	25.000	ug/L	92.5		70 - 130		
Bromodichloromethane	BXD1730-BS1	LCS	30.330	25.000	ug/L	121		70 - 130		
Chlorobenzene	BXD1730-BS1	LCS	25.220	25.000	ug/L	101		70 - 130		
Chloroethane	BXD1730-BS1	LCS	26.070	25.000	ug/L	104		70 - 130		
1,4-Dichlorobenzene	BXD1730-BS1	LCS	28.150	25.000	ug/L	113		70 - 130		
1,1-Dichloroethane	BXD1730-BS1	LCS	24.540	25.000	ug/L	98.2		70 - 130		
1,1-Dichloroethene	BXD1730-BS1	LCS	25.280	25.000	ug/L	101		70 - 130		
Toluene	BXD1730-BS1	LCS	24.470	25.000	ug/L	97.9		70 - 130		
Trichloroethene	BXD1730-BS1	LCS	29.320	25.000	ug/L	117		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXD1730-BS1	LCS	10.560	10.000	ug/L	106		75 - 125		
Toluene-d8 (Surrogate)	BXD1730-BS1	LCS	9.8400	10.000	ug/L	98.4		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXD1730-BS1	LCS	10.960	10.000	ug/L	110		80 - 120		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
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 Qualls. Includes two sections for QC Batch IDs BXD1729 and BXD1730.

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Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXD1730		Used client sample: Y - Description: MW-14-4, 04/21/2014 11:45								
1,1-Dichloroethene	MS	1408871-10	ND	25.410	25.000	ug/L		102		70 - 130
	MSD	1408871-10	ND	26.180	25.000	ug/L	3.0	105	20	70 - 130
Toluene	MS	1408871-10	ND	25.550	25.000	ug/L		102		70 - 130
	MSD	1408871-10	ND	25.600	25.000	ug/L	0.2	102	20	70 - 130
Trichloroethene	MS	1408871-10	0.42000	27.000	25.000	ug/L		106		70 - 130
	MSD	1408871-10	0.42000	27.140	25.000	ug/L	0.5	107	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1408871-10	ND	10.450	10.000	ug/L		104		75 - 125
	MSD	1408871-10	ND	10.410	10.000	ug/L	0.4	104		75 - 125
Toluene-d8 (Surrogate)	MS	1408871-10	ND	10.060	10.000	ug/L		101		80 - 120
	MSD	1408871-10	ND	10.050	10.000	ug/L	0.1	100		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1408871-10	ND	10.700	10.000	ug/L		107		80 - 120
	MSD	1408871-10	ND	10.830	10.000	ug/L	1.2	108		80 - 120

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Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
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QC Batch ID: BXD1729

Chloroacetonitrile	BXD1729-BLK1	0	ug/L			
1-Chlorobutane	BXD1729-BLK1	0	ug/L			
1,1-Dichloropropanone	BXD1729-BLK1	0	ug/L			
Methyl acrylate	BXD1729-BLK1	0	ug/L			
Nitrobenzene	BXD1729-BLK1	0	ug/L			
2-Nitropropane	BXD1729-BLK1	0	ug/L			

QC Batch ID: BXD1730

Chloroacetonitrile	BXD1730-BLK1	0	ug/L			
1-Chlorobutane	BXD1730-BLK1	0	ug/L			
1,1-Dichloropropanone	BXD1730-BLK1	0	ug/L			
Methyl acrylate	BXD1730-BLK1	0	ug/L			
Nitrobenzene	BXD1730-BLK1	0	ug/L			
2-Nitropropane	BXD1730-BLK1	0	ug/L			

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3761 Attucks Drive
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Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD1533						
Nitrite as N	BXD1533-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXD1765						
Nitrite as N	BXD1765-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXD1768						
ortho-Phosphate as P	BXD1768-BLK1	ND	mg/L	0.020	0.0040	
QC Batch ID: BXD1769						
Chloride	BXD1769-BLK1	ND	mg/L	0.50	0.067	
Nitrate as N	BXD1769-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXD1769-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXD1770						
Chloride	BXD1770-BLK1	ND	mg/L	0.50	0.067	
Nitrate as N	BXD1770-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXD1770-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXD1782						
Bicarbonate	BXD1782-BLK1	ND	mg/L	5.0	5.0	
Carbonate	BXD1782-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	BXD1782-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXD1819						
Bicarbonate	BXD1819-BLK1	ND	mg/L	5.0	5.0	
Carbonate	BXD1819-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	BXD1819-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXD1914						
Total Recoverable Calcium	BXD1914-BLK1	ND	mg/L	0.10	0.014	
Total Recoverable Magnesium	BXD1914-BLK1	ND	mg/L	0.050	0.019	
Total Recoverable Sodium	BXD1914-BLK1	0.047141	mg/L	0.50	0.017	J
Total Recoverable Potassium	BXD1914-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXD1915						
Total Recoverable Calcium	BXD1915-BLK1	0.016534	mg/L	0.10	0.014	J
Total Recoverable Sodium	BXD1915-BLK1	0.058008	mg/L	0.50	0.017	J
Total Recoverable Potassium	BXD1915-BLK1	ND	mg/L	1.0	0.10	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD1963						
Bicarbonate	BXD1963-BLK1	ND	mg/L	5.0	5.0	
Carbonate	BXD1963-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	BXD1963-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXD1964						
Bicarbonate	BXD1964-BLK1	ND	mg/L	5.0	5.0	
Carbonate	BXD1964-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	BXD1964-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXD2240						
Total Dissolved Solids @ 180 C	BXD2240-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXD2241						
Total Dissolved Solids @ 180 C	BXD2241-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXD2508						
Perchlorate	BXD2508-BLK1	ND	ug/L	4.0	0.45	
QC Batch ID: BXE0275						
Perchlorate	BXE0275-BLK1	ND	ug/L	4.0	0.45	
QC Batch ID: BXE0471						
Total Recoverable Magnesium	BXE0471-BLK1	ND	mg/L	0.050	0.019	

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Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXD1533										
Nitrite as N	BXD1533-BS1	LCS	0.54079	0.50000	mg/L	108		90 - 110		
QC Batch ID: BXD1765										
Nitrite as N	BXD1765-BS1	LCS	0.53785	0.50000	mg/L	108		90 - 110		
QC Batch ID: BXD1768										
ortho-Phosphate as P	BXD1768-BS1	LCS	0.21073	0.20000	mg/L	105		90 - 110		
QC Batch ID: BXD1769										
Chloride	BXD1769-BS1	LCS	49.380	50.000	mg/L	98.8		90 - 110		
Nitrate as N	BXD1769-BS1	LCS	5.0440	5.0000	mg/L	101		90 - 110		
Sulfate	BXD1769-BS1	LCS	99.170	100.00	mg/L	99.2		90 - 110		
QC Batch ID: BXD1770										
Chloride	BXD1770-BS1	LCS	49.071	50.000	mg/L	98.1		90 - 110		
Nitrate as N	BXD1770-BS1	LCS	4.9980	5.0000	mg/L	100		90 - 110		
Sulfate	BXD1770-BS1	LCS	98.644	100.00	mg/L	98.6		90 - 110		
QC Batch ID: BXD1782										
Total Alkalinity as CaCO3	BXD1782-BS3	LCS	101.02	100.00	mg/L	101		90 - 110		
pH	BXD1782-BS2	LCS	7.0300	7.0000	pH Units	100		95 - 105		
QC Batch ID: BXD1819										
Total Alkalinity as CaCO3	BXD1819-BS3	LCS	100.10	100.00	mg/L	100		90 - 110		
pH	BXD1819-BS2	LCS	7.0300	7.0000	pH Units	100		95 - 105		
QC Batch ID: BXD1914										
Total Recoverable Calcium	BXD1914-BS1	LCS	10.203	10.000	mg/L	102		85 - 115		
Total Recoverable Magnesium	BXD1914-BS1	LCS	10.360	10.000	mg/L	104		85 - 115		
Total Recoverable Sodium	BXD1914-BS1	LCS	10.464	10.000	mg/L	105		85 - 115		
Total Recoverable Potassium	BXD1914-BS1	LCS	10.169	10.000	mg/L	102		85 - 115		
QC Batch ID: BXD1915										
Total Recoverable Calcium	BXD1915-BS1	LCS	9.4040	10.000	mg/L	94.0		85 - 115		
Total Recoverable Sodium	BXD1915-BS1	LCS	9.3157	10.000	mg/L	93.2		85 - 115		
Total Recoverable Potassium	BXD1915-BS1	LCS	9.1397	10.000	mg/L	91.4		85 - 115		
QC Batch ID: BXD1963										
Total Alkalinity as CaCO3	BXD1963-BS3	LCS	98.430	100.00	mg/L	98.4		90 - 110		
pH	BXD1963-BS2	LCS	7.0300	7.0000	pH Units	100		95 - 105		
QC Batch ID: BXD1964										

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Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXD1964										
Total Alkalinity as CaCO3	BXD1964-BS3	LCS	97.820	100.00	mg/L	97.8		90 - 110		
pH	BXD1964-BS2	LCS	7.0300	7.0000	pH Units	100		95 - 105		
QC Batch ID: BXD2240										
Total Dissolved Solids @ 180 C	BXD2240-BS1	LCS	550.00	586.00	mg/L	93.9		90 - 110		
QC Batch ID: BXD2241										
Total Dissolved Solids @ 180 C	BXD2241-BS1	LCS	555.00	586.00	mg/L	94.7		90 - 110		
QC Batch ID: BXD2508										
Perchlorate	BXD2508-BS1	LCS	8.5849	10.000	ug/L	85.8		85 - 115		
QC Batch ID: BXE0275										
Perchlorate	BXE0275-BS1	LCS	10.009	10.000	ug/L	100		85 - 115		
QC Batch ID: BXE0471										
Total Recoverable Magnesium	BXE0471-BS1	LCS	10.603	10.000	mg/L	106		85 - 115		

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Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Qualls. Includes QC Batch IDs: BXD1533, BXD1765, BXD1768, BXD1769, BXD1770, BXD1782.

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Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)
Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes QC Batch IDs BXD1819, BXD1914, BXD1915, and BXD1963.

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Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXD1964 Used client sample: Y - Description: MW-14-1, 04/21/2014 14:00										
pH	DUP	1408871-14	7.1300	7.1300		pH Units	0		20	
QC Batch ID: BXD2240 Used client sample: N										
Total Dissolved Solids @ 180 C	DUP	1408831-02	1165.0	1165.0		mg/L	0		10	
QC Batch ID: BXD2241 Used client sample: Y - Description: MW-14-3, 04/21/2014 12:30										
Total Dissolved Solids @ 180 C	DUP	1408871-11	755.00	755.00		mg/L	0		10	
QC Batch ID: BXD2508 Used client sample: Y - Description: MW-11-2, 04/21/2014 09:20										
Perchlorate	DUP	408871-07RE'	ND	ND		ug/L			15	
	MS	408871-07RE'	ND	8.1343	10.101	ug/L		80.5		80 - 120
	MSD	408871-07RE'	ND	8.4041	10.101	ug/L	3.3	83.2	15	80 - 120
QC Batch ID: BXE0275 Used client sample: Y - Description: MW-14-4, 04/21/2014 11:45										
Perchlorate	DUP	1408871-10	4.1099	4.6796		ug/L	13.0			15
	MS	1408871-10	4.1099	14.069	10.101	ug/L		98.6		80 - 120
	MSD	1408871-10	4.1099	13.733	10.101	ug/L	2.4	95.3	15	80 - 120
QC Batch ID: BXE0471 Used client sample: Y - Description: MW-11-1, 04/21/2014 10:00										
Total Recoverable Magnesium	DUP	408871-08RE'	19.024	18.765		mg/L	1.4			20
	MS	408871-08RE'	19.024	28.626	10.000	mg/L		96.0		75 - 125
	MSD	408871-08RE'	19.024	28.521	10.000	mg/L	0.4	95.0	20	75 - 125

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Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD1825						
Hexavalent Chromium	BXD1825-BLK1	0.00094300	mg/L	0.0020	0.00070	J
QC Batch ID: BXD1827						
Hexavalent Chromium	BXD1827-BLK1	0.00073300	mg/L	0.0020	0.00070	J
QC Batch ID: BXD1914						
Total Recoverable Iron	BXD1914-BLK1	ND	ug/L	50	6.5	
QC Batch ID: BXD1915						
Total Recoverable Iron	BXD1915-BLK2	ND	ug/L	50	6.5	
QC Batch ID: BXD2050						
Total Recoverable Arsenic	BXD2050-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	BXD2050-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	BXD2050-BLK1	ND	ug/L	1.0	0.10	
QC Batch ID: BXD2186						
Total Recoverable Arsenic	BXD2186-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Lead	BXD2186-BLK1	ND	ug/L	1.0	0.10	
QC Batch ID: BXE0110						
Total Recoverable Chromium	BXE0110-BLK1	0.87500	ug/L	3.0	0.50	J

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Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXD1825										
Hexavalent Chromium	BXD1825-BS1	LCS	0.050695	0.050000	mg/L	101		85 - 115		
QC Batch ID: BXD1827										
Hexavalent Chromium	BXD1827-BS1	LCS	0.050555	0.050000	mg/L	101		85 - 115		
QC Batch ID: BXD1914										
Total Recoverable Iron	BXD1914-BS1	LCS	1041.7	1000.0	ug/L	104		85 - 115		
QC Batch ID: BXD1915										
Total Recoverable Iron	BXD1915-BS2	LCS	975.73	1000.0	ug/L	97.6		85 - 115		
QC Batch ID: BXD2050										
Total Recoverable Arsenic	BXD2050-BS1	LCS	104.32	100.00	ug/L	104		85 - 115		
Total Recoverable Chromium	BXD2050-BS1	LCS	41.945	40.000	ug/L	105		85 - 115		
Total Recoverable Lead	BXD2050-BS1	LCS	105.27	100.00	ug/L	105		85 - 115		
QC Batch ID: BXD2186										
Total Recoverable Arsenic	BXD2186-BS1	LCS	99.925	100.00	ug/L	99.9		85 - 115		
Total Recoverable Lead	BXD2186-BS1	LCS	99.187	100.00	ug/L	99.2		85 - 115		
QC Batch ID: BXE0110										
Total Recoverable Chromium	BXE0110-BS1	LCS	39.014	40.000	ug/L	97.5		85 - 115		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes multiple QC batches (BXD1825, BXD1827, BXD1914, BXD1915, BXD2050, BXD2186, BXE0110) and various metal analyses like Hexavalent Chromium, Total Recoverable Iron, Total Recoverable Arsenic, Total Recoverable Chromium, and Total Recoverable Lead.

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/12/2014 13:00
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A02 The difference between duplicate readings is less than the PQL.
- A03 The sample concentration is more than 4 times the spike level.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.
- S05 The sample holding time was exceeded.
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.



Date of Report: 05/19/2014

David Conner

Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Client Project: 2nd Qtr.
BCL Project: JPL- GW Monitoring Wells
BCL Work Order: 1408977
Invoice ID: B173059

Enclosed are the results of analyses for samples received by the laboratory on 4/22/2014. 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; AK UST101

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Chain of Custody Form

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***Required Fields**

Report To: Client: Tidewater, Inc. Attn: David Conner
 Street Address: 3761 Altucks Drive City: Powell State: OH Zip: 43065
 Phone: (614) 792-2897 Fax: (614) 792-2897
 Email Address: david.conner@tideh2o.net
 Submission #: 4-08977

Project Description: JPL-GW Monitoring
 Project Code: 2nd Qtr.
 Sampler(s): Blaine Tech

Client: Tidewater, Inc. (P.O. #1213-000-02)
 Attn: As directed by Ben Headington
 Address: 8625 Selhick Drive, Suite A City: Elkridge State: MD Zip: 21074
 Are there any tests with holding times less than or equal to 48 hours?
 Yes No

Analysis Requested

Sample #	Sample Description	Date	Time	Matrix*
-1	TB-2-4/22/14	4-22-14	1100	AW
-2	EB-2-4/22/14	↓	1110	↓
-3	MW-19-2	↓	1140	↓
-4	MW-19-1	↓	1410	↓
-5	MW-19-3	↓	1445	↓

Analysis Requested

Analysis	Request
Orthophosphate 365.1	
8270 Phenols	
8270 PAHs	
CO3, HCO3, Alk., TDS, pH	
Cl, NO3, NO2, SO4, Perch.	
Hexavalent Cr6 - 7196 (mg/L)	
Na, Fe	
TRM: Cr, Pb, As, Ca, Mg, K	
VOCs EPA 524.2	

Analysis Requested

Analysis	Request
DO	X
Cl2	X
BOD	X
MEAS	X
COT	X

STANDARD TURNAROUND = 10
 SHORT HOLDING TIMES
 NO3 NO2 OP SS
 CHK BY DISTRIBUTION
 M
 PREPARED BY
 SUBMITTED BY

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

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

Lab TAT Approval: _____ *Additional Charges May Apply

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

Cost Center:
 1. Relinquished By: [Signature] Date: 4-22-14 Time: 1630
 2. Relinquished By: [Signature] Date: 4-22-14 Time: 1640
 3. Relinquished By: [Signature] Date: 4-22-14 Time: 1950

Global ID:
 1. Received By: [Signature] Date: 4-22-14 Time: 1630
 2. Received By: [Signature] Date: 4-22-14 Time: 1640
 3. Received By: [Signature] Date: 4-22-14 Time: 1950

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. 10 07/07/13

Submission #: 14-08977

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

Refrigerant: Ice Blue Ice None Other Comments: _____

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

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

COC Received YES NO

Emissivity: 0.95 Container: PE Thermometer ID: 207 Date/Time: 4-22-14 RSO
 Temperature: (A) 0.9 °C / (C) 0.9 °C Analyst Init RSO

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL		B	B	B	B					
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS		C	C	C	C					
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A2									
40ml VOA VIAL		A-3	A-3	A-3	A-3					
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER 8370 080										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: RSO Date/Time: 4/22/14 2:25
 A = Actual / C = Corrected

{S:\MyDOCS\WordPerfect\LAB_DOCS\FORMS\SAMREC15}



Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1408977-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-2-4/22/14 Sampled By: Blaine Tech of BAT	Receive Date: 04/22/2014 19:50 Sampling Date: 04/22/2014 11:00 Sample Depth: --- Lab Matrix: Water Sample Type: Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-2-4/22/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1408977-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: EB-2-4/22/14 Sampled By: Blaine Tech of BAT	Receive Date: 04/22/2014 19:50 Sampling Date: 04/22/2014 11:10 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-2-4/22/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1408977-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-19-2 Sampled By: Blaine Tech of BAT	Receive Date: 04/22/2014 19:50 Sampling Date: 04/22/2014 11:40 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous 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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1408977-04	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-19-1 Sampled By: Blaine Tech of BAT	Receive Date: 04/22/2014 19:50 Sampling Date: 04/22/2014 14:10 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-19-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1408977-05	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-19-3 Sampled By: Blaine Tech of BAT	Receive Date: 04/22/2014 19:50 Sampling Date: 04/22/2014 14:45 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous 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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408977-01	Client Sample Name: JPL-GW, TB-2-4/22/14, 4/22/2014 11:00:00AM, Blaine Tech
----------------------------------	--

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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408977-01	Client Sample Name: JPL-GW, TB-2-4/22/14, 4/22/2014 11:00:00AM, 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: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408977-01	Client Sample Name: JPL-GW, TB-2-4/22/14, 4/22/2014 11:00:00AM, 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	V11	1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	100	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	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	04/23/14	04/23/14 12:00	MGC	MS-V5	1	BXD1730

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1408977-01	Client Sample Name: JPL-GW, TB-2-4/22/14, 4/22/2014 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	04/23/14	04/23/14 12:00	MGC	MS-V5	1	BXD1730

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Tidewater Inc.
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Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408977-02	Client Sample Name: JPL-GW, EB-2-4/22/14, 4/22/2014 11:10:00AM, 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		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: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408977-02	Client Sample Name: JPL-GW, EB-2-4/22/14, 4/22/2014 11:10:00AM, 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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408977-02	Client Sample Name: JPL-GW, EB-2-4/22/14, 4/22/2014 11:10:00AM, 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	V11	1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.0	%	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	04/23/14	04/23/14 17:16	MGC	MS-V5	1	BXD1730

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Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1408977-02 **Client Sample Name:** JPL-GW, EB-2-4/22/14, 4/22/2014 11:10:00AM, Blaine Tech

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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/23/14	04/23/14 17:16	MGC	MS-V5	1	BXD1730

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Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1408977-02		Client Sample Name: JPL-GW, EB-2-4/22/14, 4/22/2014 11:10:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	0.035	mg/L	0.10	0.018	EPA-200.7	ND	J	1
Total Recoverable Magnesium	ND	mg/L	0.050	0.020	EPA-200.7	ND		1
Total Recoverable Sodium	ND	mg/L	0.50	0.017	EPA-200.7	ND		1
Total Recoverable Potassium	ND	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	ND	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	0.18	mg/L	0.50	0.067	EPA-300.0	ND	J	3
Nitrate as N	0.040	mg/L	0.10	0.025	EPA-300.0	ND	J	3
Sulfate	ND	mg/L	1.0	0.18	EPA-300.0	ND		3
pH	6.36	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	13	mg/L	6.7	6.7	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	04/25/14	04/29/14	22:58	JRG	PE-OP2	1	BXD2183
2	SM-2320B	04/24/14	04/24/14	15:20	RML	MET-1	1	BXD2038
3	EPA-300.0	04/23/14	04/23/14	10:42	LD1	IC2	1	BXD1898
4	EPA-150.1	04/24/14	04/24/14	15:20	RML	MET-1	1	BXD2038
5	EPA-160.1	04/26/14	04/26/14	16:00	FRP	MANUAL	0.667	BXD2270
6	EPA-353.2	04/23/14	04/23/14	08:55	TDC	KONE-1	1	BXD1972
7	EPA-314.0	05/04/14	05/04/14	22:07	LD1	IC6	1	BXE0276

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Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1408977-02	Client Sample Name: JPL-GW, EB-2-4/22/14, 4/22/2014 11:10:00AM, 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 Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	0.51	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	ND	ug/L	50	6.5	EPA-200.7	7.2		3
Total Recoverable Lead	0.17	ug/L	1.0	0.10	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/23/14	04/23/14 07:40	TDC	KONE-1	1	BXD1956
2	EPA-200.8	04/28/14	04/30/14 06:34	EAR	PE-EL2	1	BXD2310
3	EPA-200.7	04/25/14	04/29/14 22:58	JRG	PE-OP2	1	BXD2183

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Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408977-03	Client Sample Name: JPL-GW, MW-19-2, 4/22/2014 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	0.29	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.67	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	0.15	ug/L	0.50	0.13	EPA-524.2	ND	J	1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.15	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	0.15	ug/L	0.50	0.085	EPA-524.2	ND	J	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408977-03		Client Sample Name: JPL-GW, MW-19-2, 4/22/2014 11:40:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.69	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.43	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408977-03	Client Sample Name: JPL-GW, MW-19-2, 4/22/2014 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	V11	1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	87.3	%	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	04/23/14	04/23/14 17:38	MGC	MS-V5	1	BXD1729

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1408977-03	Client Sample Name: JPL-GW, MW-19-2, 4/22/2014 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	04/23/14	04/23/14 17:38	MGC	MS-V5	1	BXD1729

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1408977-03	Client Sample Name: JPL-GW, MW-19-2, 4/22/2014 11:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Acenaphthylene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Aldrin	ND	ug/L	2.0	0.35	EPA-8270C	ND		1
Aniline	ND	ug/L	5.0	0.69	EPA-8270C	ND		1
Anthracene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Benzidine	ND	ug/L	20	7.1	EPA-8270C	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	0.38	EPA-8270C	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	0.41	EPA-8270C	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
Benzoic acid	ND	ug/L	10	5.8	EPA-8270C	ND		1
Benzyl alcohol	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	0.47	EPA-8270C	ND		1
alpha-BHC	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
beta-BHC	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
delta-BHC	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.0	0.68	EPA-8270C	ND		1
bis(2-Chloroisopropyl) ether	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
bis(2-Ethylhexyl)phthalate	ND	ug/L	4.0	3.0	EPA-8270C	ND		1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
4-Chloroaniline	ND	ug/L	2.0	0.69	EPA-8270C	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
Chrysene	ND	ug/L	2.0	0.63	EPA-8270C	ND		1
4,4'-DDD	ND	ug/L	2.0	0.48	EPA-8270C	ND		1
4,4'-DDE	ND	ug/L	3.0	0.41	EPA-8270C	ND		1
4,4'-DDT	ND	ug/L	2.0	0.43	EPA-8270C	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	0.26	EPA-8270C	ND		1
Dibenzofuran	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	0.37	EPA-8270C	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1408977-03	Client Sample Name: JPL-GW, MW-19-2, 4/22/2014 11:40:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	2.0	0.35	EPA-8270C	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	8.2	EPA-8270C	ND		1
Dieldrin	ND	ug/L	3.0	0.41	EPA-8270C	ND		1
Diethyl phthalate	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.39	EPA-8270C	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	0.39	EPA-8270C	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.41	EPA-8270C	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.46	EPA-8270C	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
Endosulfan I	ND	ug/L	10	1.7	EPA-8270C	ND		1
Endosulfan II	ND	ug/L	10	1.2	EPA-8270C	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.58	EPA-8270C	ND		1
Endrin	ND	ug/L	2.0	1.1	EPA-8270C	ND		1
Endrin aldehyde	ND	ug/L	10	0.52	EPA-8270C	ND		1
Fluoranthene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Fluorene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Heptachlor	ND	ug/L	2.0	0.32	EPA-8270C	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
Hexachlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Hexachlorobutadiene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Hexachlorocyclopentadiene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Hexachloroethane	ND	ug/L	2.0	0.32	EPA-8270C	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
Isophorone	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Naphthalene	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
2-Naphthylamine	ND	ug/L	20	4.8	EPA-8270C	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.66	EPA-8270C	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.87	EPA-8270C	ND		1
Nitrobenzene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1408977-03	Client Sample Name: JPL-GW, MW-19-2, 4/22/2014 11:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.0	0.61	EPA-8270C	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	1.3	EPA-8270C	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	0.44	EPA-8270C	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Pyrene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.40	EPA-8270C	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.37	EPA-8270C	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.43	EPA-8270C	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.34	EPA-8270C	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-8270C	ND		1
2-Methylphenol	ND	ug/L	2.0	1.0	EPA-8270C	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	1.6	EPA-8270C	ND		1
Total Methylphenol	ND	ug/L	4.0	2.6	EPA-8270C	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.73	EPA-8270C	ND		1
Pentachlorophenol	ND	ug/L	10	0.79	EPA-8270C	ND		1
Phenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.31	EPA-8270C	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.60	EPA-8270C	ND		1
Acetophenone	ND	ug/L	10	3.0	EPA-8270C	ND		1
2-Acetylaminofluorene	ND	ug/L	10	0.38	EPA-8270C	ND		1
Acrolein, dimethyl acetal	ND	ug/L	40	7.7	EPA-8270C	ND		1
4-Aminobiphenyl	ND	ug/L	20	5.2	EPA-8270C	ND		1
Aramite	ND	ug/L	10	2.3	EPA-8270C	ND		1
Benefin	ND	ug/L	10	0.88	EPA-8270C	ND		1
Carbazole	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
cis-Chlordane	ND	ug/L	5.0	0.30	EPA-8270C	ND		1
trans-Chlordane	ND	ug/L	5.0	0.40	EPA-8270C	ND		1
Chlorobenzilate	ND	ug/L	10	0.29	EPA-8270C	ND		1
1-Chloronaphthalene	ND	ug/L	10	0.28	EPA-8270C	ND		1
cis-Diallate	ND	ug/L	5.0	0.21	EPA-8270C	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1408977-03	Client Sample Name: JPL-GW, MW-19-2, 4/22/2014 11:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
trans-Diallate	ND	ug/L	5.0	0.22	EPA-8270C	ND		1
Diallate	ND	ug/L	10	0.42	EPA-8270C	ND		1
2,6-Dichlorophenol	ND	ug/L	10	1.3	EPA-8270C	ND		1
Dimethoate	ND	ug/L	20	0.46	EPA-8270C	ND		1
p-(Dimethylamino)azobenzene	ND	ug/L	10	0.54	EPA-8270C	ND		1
7,12-Dimethylbenz[a]anthracene	ND	ug/L	10	0.41	EPA-8270C	ND		1
3,3'-Dimethylbenzidine	ND	ug/L	20	5.4	EPA-8270C	ND		1
a,a-Dimethylphenethylamine	ND	ug/L	20	2.5	EPA-8270C	ND		1
Dimethyl sulfoxide (DMSO)	ND	ug/L	10	1.0	EPA-8270C	ND		1
1,3-Dinitrobenzene	ND	ug/L	10	0.23	EPA-8270C	ND		1
Dinoseb	ND	ug/L	10	0.61	EPA-8270C	ND		1
Diphenylamine	ND	ug/L	10	0.20	EPA-8270C	ND		1
Disulfoton	ND	ug/L	10	0.44	EPA-8270C	ND		1
Ethyl methacrylate	ND	ug/L	10	0.19	EPA-8270C	ND		1
Ethyl methanesulfonate	ND	ug/L	10	0.26	EPA-8270C	ND		1
Ethyl Parathion	ND	ug/L	10	0.31	EPA-8270C	ND		1
Famphur	ND	ug/L	20	8.3	EPA-8270C	ND		1
Hexachlorophene	ND	ug/L	200	35	EPA-8270C	ND		1
Hexachloropropene	ND	ug/L	20	0.46	EPA-8270C	ND		1
Isodrin	ND	ug/L	10	0.31	EPA-8270C	ND		1
cis-Isosafrole	ND	ug/L	5.0	0.41	EPA-8270C	ND		1
trans-Isosafrole	ND	ug/L	5.0	0.36	EPA-8270C	ND		1
Isosafrole	ND	ug/L	10	0.76	EPA-8270C	ND		1
Kepone	ND	ug/L	20	1.5	EPA-8270C	ND		1
Methapyrilene	ND	ug/L	10	1.5	EPA-8270C	ND		1
Methoxychlor	ND	ug/L	10	0.40	EPA-8270C	ND		1
3-Methylcholanthrene	ND	ug/L	10	0.56	EPA-8270C	ND		1
Methyl methacrylate	ND	ug/L	40	22	EPA-8270C	ND		1
Methyl methanesulfonate	ND	ug/L	10	0.42	EPA-8270C	ND		1
1-Methylnaphthalene	ND	ug/L	10	0.41	EPA-8270C	ND		1
Methyl parathion	ND	ug/L	10	0.32	EPA-8270C	ND		1
N-Methyl-2-pyrrolidinone	ND	ug/L	10	1.6	EPA-8270C	ND		1
1,4-Naphthoquinone	ND	ug/L	20	2.1	EPA-8270C	ND		1

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Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1408977-03	Client Sample Name: JPL-GW, MW-19-2, 4/22/2014 11:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1-Naphthylamine	ND	ug/L	20	5.3	EPA-8270C	ND		1
5-Nitro-o-toluidine	ND	ug/L	10	0.44	EPA-8270C	ND		1
4-Nitroquinoline 1-oxide	ND	ug/L	20	12	EPA-8270C	ND		1
N-Nitrosodibutylamine	ND	ug/L	10	0.41	EPA-8270C	ND		1
N-Nitrosodiethylamine	ND	ug/L	10	0.43	EPA-8270C	ND		1
N-Nitrosomethylethylamine	ND	ug/L	10	0.37	EPA-8270C	ND		1
N-Nitrosomorpholine	ND	ug/L	10	0.35	EPA-8270C	ND		1
N-Nitrosopiperidine	ND	ug/L	10	0.44	EPA-8270C	ND		1
N-Nitrosopyrrolidine	ND	ug/L	10	0.44	EPA-8270C	ND		1
Pentachlorobenzene	ND	ug/L	10	0.25	EPA-8270C	ND		1
Pentachloroethane	ND	ug/L	20	1.0	EPA-8270C	ND		1
Pentachloronitrobenzene	ND	ug/L	10	0.30	EPA-8270C	ND		1
Phenacetin	ND	ug/L	10	0.20	EPA-8270C	ND		1
1,4-Phenylenediamine	ND	ug/L	20	2.2	EPA-8270C	ND		1
Phorate	ND	ug/L	10	0.34	EPA-8270C	ND		1
2-Picoline	ND	ug/L	10	0.23	EPA-8270C	ND		1
PCB-1016	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1221	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1232	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1242	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1248	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1254	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1260	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1262	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1268	ND	ug/L	50	25	EPA-8270C	ND		1
Total PCB's (Summation)	ND	ug/L	50	25	EPA-8270C	ND		1
Prometryn	ND	ug/L	10	1.7	EPA-8270C	ND		1
Pronamide	ND	ug/L	10	0.29	EPA-8270C	ND		1
Propyleneglycol monomethyl ether acetate	ND	ug/L	10	4.2	EPA-8270C	ND		1
Prowl	ND	ug/L	10	0.83	EPA-8270C	ND		1
Pyridine	ND	ug/L	10	0.27	EPA-8270C	ND		1
Safrole	ND	ug/L	10	0.33	EPA-8270C	ND		1
Sulfotep	ND	ug/L	10	0.43	EPA-8270C	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1408977-03	Client Sample Name: JPL-GW, MW-19-2, 4/22/2014 11:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10	0.39	EPA-8270C	ND		1
2,3,4,5-Tetrachlorophenol	ND	ug/L	10	5.0	EPA-8270C	ND		1
2,3,4,6-Tetrachlorophenol	ND	ug/L	10	4.7	EPA-8270C	ND		1
Thionazin	ND	ug/L	10	0.21	EPA-8270C	ND		1
2-Toluidine	ND	ug/L	10	0.49	EPA-8270C	ND		1
Toxaphene	ND	ug/L	100	50	EPA-8270C	ND		1
o,o,o-Triethylphosphorothioate	ND	ug/L	10	0.42	EPA-8270C	ND		1
1,3,5-Trinitrobenzene	ND	ug/L	10	0.30	EPA-8270C	ND		1
Tris(hydroxymethyl)nitromethane	ND	ug/L	50	5.0	EPA-8270C	ND		1
2-Fluorophenol (Surrogate)	33.7	%	30 - 120 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	36.2	%	12 - 110 (LCL - UCL)		EPA-8270C			1
Nitrobenzene-d5 (Surrogate)	84.7	%	60 - 130 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	79.0	%	55 - 125 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	49.8	%	40 - 150 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	99.4	%	40 - 150 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	04/25/14	05/17/14 09:28	VH1	MS-B2	0.980	BXD2450

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

BCL Sample ID:	1408977-03	Client Sample Name:	JPL-GW, MW-19-2, 4/22/2014 11:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1-Acetyl-2-thiourea	0	ug/L			EPA-8270C	0		1
2-Aminoanthraquinone	0	ug/L			EPA-8270C	0		1
3-Amino-9-ethylcarbazole	0	ug/L			EPA-8270C	0		1
Anilazine	0	ug/L			EPA-8270C	0		1
o-Anisidine	0	ug/L			EPA-8270C	0		1
Azinphos methyl	0	ug/L			EPA-8270C	0		1
Barban	0	ug/L			EPA-8270C	0		1
p-Benzoquinone	0	ug/L			EPA-8270C	0		1
Bromoxynil	0	ug/L			EPA-8270C	0		1
Captafol	0	ug/L			EPA-8270C	0		1
Captan	0	ug/L			EPA-8270C	0		1
Carbaryl	0	ug/L			EPA-8270C	0		1
Carbofuran	0	ug/L			EPA-8270C	0		1
Carbophenothion	0	ug/L			EPA-8270C	0		1
Chlorfenvinphos	0	ug/L			EPA-8270C	0		1
5-Chloro-2-methylaniline	0	ug/L			EPA-8270C	0		1
3-(Chloromethyl) pyridine hydrochloride	0	ug/L			EPA-8270C	0		1
4-Chloro-1,2-phenylenediamine	0	ug/L			EPA-8270C	0		1
4-Chloro-1,3-phenylenediamine	0	ug/L			EPA-8270C	0		1
Coumaphos	0	ug/L			EPA-8270C	0		1
p-Cresidine	0	ug/L			EPA-8270C	0		1
Crotoxyphos	0	ug/L			EPA-8270C	0		1
2-Cyclohexyl-4,6-dinitrophenol	0	ug/L			EPA-8270C	0		1
Demeton-O	0	ug/L			EPA-8270C	0		1
Demeton-S	0	ug/L			EPA-8270C	0		1
2,4-Diaminotoluene	0	ug/L			EPA-8270C	0		1
Dibenz[a,j]acridine	0	ug/L			EPA-8270C	0		1
Dibenzo[a,e]pyrene	0	ug/L			EPA-8270C	0		1
1,2-Dibromo-3-chloropropane	0	ug/L			EPA-8270C	0		1
Dichlone	0	ug/L			EPA-8270C	0		1
Dichlorvos	0	ug/L			EPA-8270C	0		1
Dicrotophos	0	ug/L			EPA-8270C	0		1
Diethylstilbestrol	0	ug/L			EPA-8270C	0		1

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Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

BCL Sample ID: 1408977-03	Client Sample Name: JPL-GW, MW-19-2, 4/22/2014 11:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl sulfate	0	ug/L			EPA-8270C	0		1
Dihydrosafrole	0	ug/L			EPA-8270C	0		1
3,3'-Dimethoxybenzidine	0	ug/L			EPA-8270C	0		1
1,2-Dinitrobenzene	0	ug/L			EPA-8270C	0		1
1,4-Dinitrobenzene	0	ug/L			EPA-8270C	0		1
Dinocap	0	ug/L			EPA-8270C	0		1
Dioxathion	0	ug/L			EPA-8270C	0		1
5,5-Diphenylhydantoin	0	ug/L			EPA-8270C	0		1
Endrin ketone	0	ug/L			EPA-8270C	0		1
EPN	0	ug/L			EPA-8270C	0		1
Ethion	0	ug/L			EPA-8270C	0		1
Ethyl carbamate	0	ug/L			EPA-8270C	0		1
Fensulfothion	0	ug/L			EPA-8270C	0		1
Fenthion	0	ug/L			EPA-8270C	0		1
Fluchloralin	0	ug/L			EPA-8270C	0		1
Hexamethylphosphoramide	0	ug/L			EPA-8270C	0		1
Hydroquinone	0	ug/L			EPA-8270C	0		1
Leptophos	0	ug/L			EPA-8270C	0		1
Malathion	0	ug/L			EPA-8270C	0		1
Maleic Anhydride	0	ug/L			EPA-8270C	0		1
Mestranol	0	ug/L			EPA-8270C	0		1
4,4'-Methylenebis(2-chloroaniline)	0	ug/L			EPA-8270C	0		1
4,4'-Methylenebis[N,N-dimethylaniline]	0	ug/L			EPA-8270C	0		1
Mevinphos	0	ug/L			EPA-8270C	0		1
Mexacarbate	0	ug/L			EPA-8270C	0		1
Mirex	0	ug/L			EPA-8270C	0		1
Monocrotophos	0	ug/L			EPA-8270C	0		1
Naled	0	ug/L			EPA-8270C	0		1
Nicotine	0	ug/L			EPA-8270C	0		1
5-Nitroacenaphthene	0	ug/L			EPA-8270C	0		1
5-Nitro-o-anisidine	0	ug/L			EPA-8270C	0		1
4-Nitrobiphenyl	0	ug/L			EPA-8270C	0		1
Nitrophen	0	ug/L			EPA-8270C	0		1

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

BCL Sample ID: 1408977-03	Client Sample Name: JPL-GW, MW-19-2, 4/22/2014 11:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Octamethylpyrophosphoramidate	0	ug/L			EPA-8270C	0		1
4,4'-Oxydianiline	0	ug/L			EPA-8270C	0		1
Phenobarbital	0	ug/L			EPA-8270C	0		1
Phosalone	0	ug/L			EPA-8270C	0		1
Phosmet	0	ug/L			EPA-8270C	0		1
Phosphamidon	0	ug/L			EPA-8270C	0		1
Phthalic anhydride	0	ug/L			EPA-8270C	0		1
Piperonyl sulfoxide	0	ug/L			EPA-8270C	0		1
Propylthiouracil	0	ug/L			EPA-8270C	0		1
Resorcinol	0	ug/L			EPA-8270C	0		1
Strychnine	0	ug/L			EPA-8270C	0		1
Sulfallate	0	ug/L			EPA-8270C	0		1
Terbufos	0	ug/L			EPA-8270C	0		1
Tetrachlorvinphos	0	ug/L			EPA-8270C	0		1
TEPP	0	ug/L			EPA-8270C	0		1
Thiophenol (Benzenethiol)	0	ug/L			EPA-8270C	0		1
Toluene 2,4-diisocyanate	0	ug/L			EPA-8270C	0		1
Trifluralin	0	ug/L			EPA-8270C	0		1
2,4,5-Trimethylaniline	0	ug/L			EPA-8270C	0		1
Trimethyl phosphate	0	ug/L			EPA-8270C	0		1
Tris(2,3-dibromopropyl) phosphate	0	ug/L			EPA-8270C	0		1
Tri-p-tolyl phosphate	0	ug/L			EPA-8270C	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	04/25/14	05/17/14 09:28	VH1	MS-B2	0.980	BXD2450

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

BCL Sample ID: 1408977-03	Client Sample Name: JPL-GW, MW-19-2, 4/22/2014 11:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Acenaphthylene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Anthracene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Benzo[a]anthracene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Benzo[b]fluoranthene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Benzo[k]fluoranthene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Benzo[a]pyrene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Benzo[g,h,i]perylene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Chrysene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Fluoranthene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Fluorene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Naphthalene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Phenanthrene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Pyrene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Nitrobenzene-d5 (Surrogate)	84.8	%	42 - 130 (LCL - UCL)		EPA-8270C-SIM			1
2-Fluorobiphenyl (Surrogate)	77.2	%	50 - 116 (LCL - UCL)		EPA-8270C-SIM			1
p-Terphenyl-d14 (Surrogate)	81.2	%	43 - 134 (LCL - UCL)		EPA-8270C-SIM			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C-SIM	04/25/14	05/05/14 14:46	MK1	MS-B7	0.950	BXD2481

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Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1408977-03		Client Sample Name: JPL-GW, MW-19-2, 4/22/2014 11:40:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	110	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	42	mg/L	0.050	0.020	EPA-200.7	ND		1
Total Recoverable Sodium	34	mg/L	0.50	0.017	EPA-200.7	ND		1
Total Recoverable Potassium	3.0	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	250	mg/L	10	10	SM-2320B	ND		2
Carbonate	ND	mg/L	5.0	5.0	SM-2320B	ND		2
Total Alkalinity as CaCO3	210	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	100	mg/L	0.50	0.067	EPA-300.0	ND		3
Nitrate as N	14	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	140	mg/L	1.0	0.18	EPA-300.0	ND		3
pH	7.16	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	690	mg/L	33	33	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	6.3	ug/L	4.0	0.45	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Instrument	Dilution	QC	
			Date/Time	Analyst			Batch ID	
1	EPA-200.7	04/25/14	04/29/14 23:14	JRG	PE-OP2	1	BXD2183	
2	SM-2320B	04/24/14	04/24/14 15:25	RML	MET-1	2	BXD2038	
3	EPA-300.0	04/23/14	04/23/14 10:57	LD1	IC2	1	BXD1898	
4	EPA-150.1	04/24/14	04/24/14 15:25	RML	MET-1	1	BXD2038	
5	EPA-160.1	04/26/14	04/26/14 16:00	FRP	MANUAL	3.333	BXD2270	
6	EPA-353.2	04/23/14	04/23/14 09:01	TDC	KONE-1	1	BXD1972	
7	EPA-314.0	05/04/14	05/04/14 22:21	LD1	IC6	1	BXE0276	

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Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1408977-03	Client Sample Name: JPL-GW, MW-19-2, 4/22/2014 11:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0012	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	2.9	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	1400	ug/L	50	6.5	EPA-200.7	7.2		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/23/14	04/23/14 07:40	TDC	KONE-1	1	BXD1956
2	EPA-200.8	04/28/14	04/30/14 06:38	EAR	PE-EL2	1	BXD2310
3	EPA-200.7	04/25/14	04/29/14 23:14	JRG	PE-OP2	1	BXD2183

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Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408977-04	Client Sample Name: JPL-GW, MW-19-1, 4/22/2014 2:10:00PM, 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		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: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408977-04	Client Sample Name: JPL-GW, MW-19-1, 4/22/2014 2:10:00PM, 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
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: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408977-04	Client Sample Name: JPL-GW, MW-19-1, 4/22/2014 2:10:00PM, 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	V11	1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	105	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/23/14	04/23/14 18:01	MGC	MS-V5	1	BXD1730

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1408977-04	Client Sample Name: JPL-GW, MW-19-1, 4/22/2014 2:10:00PM, 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	04/23/14	04/23/14 18:01	MGC	MS-V5	1	BXD1730

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1408977-04		Client Sample Name: JPL-GW, MW-19-1, 4/22/2014 2:10:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	56	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	18	mg/L	0.050	0.020	EPA-200.7	ND		1
Total Recoverable Sodium	15	mg/L	0.50	0.017	EPA-200.7	ND		1
Total Recoverable Potassium	2.8	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	260	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	220	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	8.6	mg/L	0.50	0.067	EPA-300.0	ND		3
Nitrate as N	0.25	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	22	mg/L	1.0	0.18	EPA-300.0	ND		3
pH	7.44	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	310	mg/L	20	20	EPA-160.1	ND		5
Nitrite as N	0.016	mg/L	0.050	0.012	EPA-353.2	ND	J	6
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-200.7	04/25/14	04/29/14	23:26	JRG	PE-OP2	1	BXD2183	
2	SM-2320B	04/24/14	04/24/14	15:31	RML	MET-1	1	BXD2038	
3	EPA-300.0	04/23/14	04/23/14	11:13	LD1	IC2	1	BXD1898	
4	EPA-150.1	04/24/14	04/24/14	15:31	RML	MET-1	1	BXD2038	
5	EPA-160.1	04/26/14	04/26/14	16:00	FRP	MANUAL	2	BXD2270	
6	EPA-353.2	04/23/14	04/23/14	09:01	TDC	KONE-1	1	BXD1972	
7	EPA-314.0	05/04/14	05/04/14	22:48	LD1	IC6	1	BXE0276	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1408977-04	Client Sample Name: JPL-GW, MW-19-1, 4/22/2014 2:10:00PM, 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 Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	0.57	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	1600	ug/L	50	6.5	EPA-200.7	7.2		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/23/14	04/23/14 07:40	TDC	KONE-1	1	BXD1956
2	EPA-200.8	04/28/14	04/30/14 06:41	EAR	PE-EL2	1	BXD2310
3	EPA-200.7	04/25/14	04/29/14 23:26	JRG	PE-OP2	1	BXD2183

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Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408977-05	Client Sample Name: JPL-GW, MW-19-3, 4/22/2014 2:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.31	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408977-05	Client Sample Name: JPL-GW, MW-19-3, 4/22/2014 2:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.37	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1408977-05	Client Sample Name: JPL-GW, MW-19-3, 4/22/2014 2:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND	V11	1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	89.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/23/14	04/23/14 18:24	MGC	MS-V5	1	BXD1730

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1408977-05	Client Sample Name: JPL-GW, MW-19-3, 4/22/2014 2:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/23/14	04/23/14 18:24	MGC	MS-V5	1	BXD1730

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1408977-05		Client Sample Name: JPL-GW, MW-19-3, 4/22/2014 2:45:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	60	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	23	mg/L	0.050	0.020	EPA-200.7	ND		1
Total Recoverable Sodium	27	mg/L	0.50	0.017	EPA-200.7	ND		1
Total Recoverable Potassium	2.3	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	210	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	170	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	41	mg/L	0.50	0.067	EPA-300.0	ND		3
Nitrate as N	7.9	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	41	mg/L	1.0	0.18	EPA-300.0	ND		3
pH	7.47	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	380	mg/L	20	20	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	2.9	ug/L	4.0	0.45	EPA-314.0	ND	J	7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-200.7	04/25/14	04/29/14	23:28	JRG	PE-OP2	1	BXD2183	
2	SM-2320B	04/24/14	04/24/14	15:37	RML	MET-1	1	BXD2038	
3	EPA-300.0	04/23/14	04/23/14	11:28	LD1	IC2	1	BXD1898	
4	EPA-150.1	04/24/14	04/24/14	15:37	RML	MET-1	1	BXD2038	
5	EPA-160.1	04/26/14	04/26/14	16:00	FRP	MANUAL	2	BXD2270	
6	EPA-353.2	04/23/14	04/23/14	09:01	TDC	KONE-1	1	BXD1972	
7	EPA-314.0	05/04/14	05/04/14	23:02	LD1	IC6	1	BXE0276	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1408977-05	Client Sample Name: JPL-GW, MW-19-3, 4/22/2014 2:45:00PM, 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 Arsenic	0.96	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	3.0	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	13	ug/L	50	6.5	EPA-200.7	7.2	J	3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/23/14	04/23/14 08:07	TDC	KONE-1	1	BXD1956
2	EPA-200.8	04/28/14	04/30/14 06:44	EAR	PE-EL2	1	BXD2310
3	EPA-200.7	04/25/14	04/29/14 23:28	JRG	PE-OP2	1	BXD2183

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Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD1729						
Benzene	BXD1729-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXD1729-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXD1729-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXD1729-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXD1729-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXD1729-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXD1729-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXD1729-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXD1729-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXD1729-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXD1729-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXD1729-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXD1729-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXD1729-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXD1729-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXD1729-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BXD1729-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXD1729-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXD1729-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXD1729-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXD1729-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXD1729-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXD1729-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXD1729-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXD1729-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXD1729-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXD1729-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXD1729-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXD1729-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXD1729-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXD1729-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXD1729-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXD1729-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXD1729-BLK1	ND	ug/L	0.50	0.14	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD1729						
trans-1,3-Dichloropropene	BXD1729-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXD1729-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXD1729-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXD1729-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXD1729-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXD1729-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXD1729-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXD1729-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXD1729-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXD1729-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXD1729-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BXD1729-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BXD1729-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXD1729-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXD1729-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXD1729-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BXD1729-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXD1729-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXD1729-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXD1729-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXD1729-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXD1729-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXD1729-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXD1729-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXD1729-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXD1729-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXD1729-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXD1729-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXD1729-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXD1729-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXD1729-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXD1729-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXD1729-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXD1729-BLK1	ND	ug/L	4.0	0.97	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
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QC Batch ID: BXD1729

Ethyl t-butyl ether	BXD1729-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXD1729-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXD1729-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXD1729-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXD1729-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXD1729-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXD1729-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXD1729-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXD1729-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXD1729-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXD1729-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXD1729-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXD1729-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BXD1729-BLK1	99.8	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BXD1729-BLK1	98.9	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BXD1729-BLK1	95.6	%	80 - 120 (LCL - UCL)		

QC Batch ID: BXD1730

Benzene	BXD1730-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXD1730-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXD1730-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXD1730-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXD1730-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXD1730-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXD1730-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXD1730-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXD1730-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXD1730-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXD1730-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXD1730-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXD1730-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXD1730-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXD1730-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXD1730-BLK1	ND	ug/L	0.50	0.15	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD1730						
Dibromochloromethane	BXD1730-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXD1730-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXD1730-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXD1730-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXD1730-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXD1730-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXD1730-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXD1730-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXD1730-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXD1730-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXD1730-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXD1730-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXD1730-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXD1730-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXD1730-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXD1730-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXD1730-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXD1730-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	BXD1730-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXD1730-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXD1730-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXD1730-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXD1730-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXD1730-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXD1730-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXD1730-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXD1730-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXD1730-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXD1730-BLK1	ND	ug/L	0.50	0.18	
1,1,1,2,2-Tetrachloroethane	BXD1730-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BXD1730-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXD1730-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXD1730-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXD1730-BLK1	ND	ug/L	0.50	0.19	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD1730						
1,1,1-Trichloroethane	BXD1730-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXD1730-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXD1730-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXD1730-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXD1730-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXD1730-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXD1730-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXD1730-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXD1730-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXD1730-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXD1730-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXD1730-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXD1730-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXD1730-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXD1730-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXD1730-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXD1730-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXD1730-BLK1	ND	ug/L	4.0	0.97	
Ethyl t-butyl ether	BXD1730-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXD1730-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXD1730-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXD1730-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXD1730-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXD1730-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXD1730-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXD1730-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXD1730-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXD1730-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXD1730-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXD1730-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXD1730-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BXD1730-BLK1	105	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BXD1730-BLK1	101	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BXD1730-BLK1	92.7	%	80 - 120 (LCL - UCL)		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXD1729										
Benzene	BXD1729-BS1	LCS	24.750	25.000	ug/L	99.0		70 - 130		
Bromodichloromethane	BXD1729-BS1	LCS	32.060	25.000	ug/L	128		70 - 130		
Chlorobenzene	BXD1729-BS1	LCS	26.940	25.000	ug/L	108		70 - 130		
Chloroethane	BXD1729-BS1	LCS	27.310	25.000	ug/L	109		70 - 130		
1,4-Dichlorobenzene	BXD1729-BS1	LCS	31.570	25.000	ug/L	126		70 - 130		
1,1-Dichloroethane	BXD1729-BS1	LCS	26.570	25.000	ug/L	106		70 - 130		
1,1-Dichloroethene	BXD1729-BS1	LCS	26.920	25.000	ug/L	108		70 - 130		
Toluene	BXD1729-BS1	LCS	26.500	25.000	ug/L	106		70 - 130		
Trichloroethene	BXD1729-BS1	LCS	29.120	25.000	ug/L	116		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXD1729-BS1	LCS	10.450	10.000	ug/L	104		75 - 125		
Toluene-d8 (Surrogate)	BXD1729-BS1	LCS	10.120	10.000	ug/L	101		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXD1729-BS1	LCS	10.910	10.000	ug/L	109		80 - 120		

QC Batch ID: BXD1730										
Benzene	BXD1730-BS1	LCS	23.120	25.000	ug/L	92.5		70 - 130		
Bromodichloromethane	BXD1730-BS1	LCS	30.330	25.000	ug/L	121		70 - 130		
Chlorobenzene	BXD1730-BS1	LCS	25.220	25.000	ug/L	101		70 - 130		
Chloroethane	BXD1730-BS1	LCS	26.070	25.000	ug/L	104		70 - 130		
1,4-Dichlorobenzene	BXD1730-BS1	LCS	28.150	25.000	ug/L	113		70 - 130		
1,1-Dichloroethane	BXD1730-BS1	LCS	24.540	25.000	ug/L	98.2		70 - 130		
1,1-Dichloroethene	BXD1730-BS1	LCS	25.280	25.000	ug/L	101		70 - 130		
Toluene	BXD1730-BS1	LCS	24.470	25.000	ug/L	97.9		70 - 130		
Trichloroethene	BXD1730-BS1	LCS	29.320	25.000	ug/L	117		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXD1730-BS1	LCS	10.560	10.000	ug/L	106		75 - 125		
Toluene-d8 (Surrogate)	BXD1730-BS1	LCS	9.8400	10.000	ug/L	98.4		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXD1730-BS1	LCS	10.960	10.000	ug/L	110		80 - 120		

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Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
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: BXD1729 and Used client sample: Y - Description: MW-11-2, 04/21/2014 09:20.

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: BXD1730 and Used client sample: Y - Description: MW-14-4, 04/21/2014 11:45.

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Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXD1730		Used client sample: Y - Description: MW-14-4, 04/21/2014 11:45								
1,1-Dichloroethene	MS	1408871-10	ND	25.410	25.000	ug/L		102		70 - 130
	MSD	1408871-10	ND	26.180	25.000	ug/L	3.0	105	20	70 - 130
Toluene	MS	1408871-10	ND	25.550	25.000	ug/L		102		70 - 130
	MSD	1408871-10	ND	25.600	25.000	ug/L	0.2	102	20	70 - 130
Trichloroethene	MS	1408871-10	0.42000	27.000	25.000	ug/L		106		70 - 130
	MSD	1408871-10	0.42000	27.140	25.000	ug/L	0.5	107	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1408871-10	ND	10.450	10.000	ug/L		104		75 - 125
	MSD	1408871-10	ND	10.410	10.000	ug/L	0.4	104		75 - 125
Toluene-d8 (Surrogate)	MS	1408871-10	ND	10.060	10.000	ug/L		101		80 - 120
	MSD	1408871-10	ND	10.050	10.000	ug/L	0.1	100		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1408871-10	ND	10.700	10.000	ug/L		107		80 - 120
	MSD	1408871-10	ND	10.830	10.000	ug/L	1.2	108		80 - 120

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD1729						
Chloroacetonitrile	BXD1729-BLK1	0	ug/L			
1-Chlorobutane	BXD1729-BLK1	0	ug/L			
1,1-Dichloropropanone	BXD1729-BLK1	0	ug/L			
Methyl acrylate	BXD1729-BLK1	0	ug/L			
Nitrobenzene	BXD1729-BLK1	0	ug/L			
2-Nitropropane	BXD1729-BLK1	0	ug/L			
QC Batch ID: BXD1730						
Chloroacetonitrile	BXD1730-BLK1	0	ug/L			
1-Chlorobutane	BXD1730-BLK1	0	ug/L			
1,1-Dichloropropanone	BXD1730-BLK1	0	ug/L			
Methyl acrylate	BXD1730-BLK1	0	ug/L			
Nitrobenzene	BXD1730-BLK1	0	ug/L			
2-Nitropropane	BXD1730-BLK1	0	ug/L			

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2450						
Acenaphthene	BXD2450-BLK1	ND	ug/L	2.0	0.24	
Acenaphthylene	BXD2450-BLK1	ND	ug/L	2.0	0.28	
Aldrin	BXD2450-BLK1	ND	ug/L	2.0	0.35	
Aniline	BXD2450-BLK1	ND	ug/L	5.0	0.69	
Anthracene	BXD2450-BLK1	ND	ug/L	2.0	0.30	
Benzidine	BXD2450-BLK1	ND	ug/L	20	7.1	
Benzo[a]anthracene	BXD2450-BLK1	ND	ug/L	2.0	0.38	
Benzo[b]fluoranthene	BXD2450-BLK1	ND	ug/L	2.0	0.41	
Benzo[k]fluoranthene	BXD2450-BLK1	ND	ug/L	2.0	0.31	
Benzo[a]pyrene	BXD2450-BLK1	ND	ug/L	2.0	0.20	
Benzo[g,h,i]perylene	BXD2450-BLK1	ND	ug/L	2.0	0.22	
Benzoic acid	BXD2450-BLK1	ND	ug/L	10	5.8	
Benzyl alcohol	BXD2450-BLK1	ND	ug/L	2.0	0.34	
Benzyl butyl phthalate	BXD2450-BLK1	ND	ug/L	2.0	0.47	
alpha-BHC	BXD2450-BLK1	ND	ug/L	2.0	0.27	
beta-BHC	BXD2450-BLK1	ND	ug/L	2.0	0.27	
delta-BHC	BXD2450-BLK1	ND	ug/L	2.0	0.30	
gamma-BHC (Lindane)	BXD2450-BLK1	ND	ug/L	2.0	0.22	
bis(2-Chloroethoxy)methane	BXD2450-BLK1	ND	ug/L	2.0	0.27	
bis(2-Chloroethyl) ether	BXD2450-BLK1	ND	ug/L	2.0	0.68	
bis(2-Chloroisopropyl)ether	BXD2450-BLK1	ND	ug/L	2.0	0.30	
bis(2-Ethylhexyl)phthalate	BXD2450-BLK1	ND	ug/L	4.0	3.0	
4-Bromophenyl phenyl ether	BXD2450-BLK1	ND	ug/L	2.0	0.23	
4-Chloroaniline	BXD2450-BLK1	ND	ug/L	2.0	0.69	
2-Chloronaphthalene	BXD2450-BLK1	ND	ug/L	2.0	0.34	
4-Chlorophenyl phenyl ether	BXD2450-BLK1	ND	ug/L	2.0	0.23	
Chrysene	BXD2450-BLK1	ND	ug/L	2.0	0.63	
4,4'-DDD	BXD2450-BLK1	ND	ug/L	2.0	0.48	
4,4'-DDE	BXD2450-BLK1	ND	ug/L	3.0	0.41	
4,4'-DDT	BXD2450-BLK1	ND	ug/L	2.0	0.43	
Dibenzo[a,h]anthracene	BXD2450-BLK1	ND	ug/L	3.0	0.26	
Dibenzofuran	BXD2450-BLK1	ND	ug/L	2.0	0.21	
1,2-Dichlorobenzene	BXD2450-BLK1	ND	ug/L	2.0	0.37	
1,3-Dichlorobenzene	BXD2450-BLK1	ND	ug/L	2.0	0.35	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2450						
1,4-Dichlorobenzene	BXD2450-BLK1	ND	ug/L	2.0	0.31	
3,3-Dichlorobenzidine	BXD2450-BLK1	ND	ug/L	10	8.2	
Dieldrin	BXD2450-BLK1	ND	ug/L	3.0	0.41	
Diethyl phthalate	BXD2450-BLK1	ND	ug/L	2.0	0.33	
Dimethyl phthalate	BXD2450-BLK1	ND	ug/L	2.0	0.39	
Di-n-butyl phthalate	BXD2450-BLK1	ND	ug/L	2.0	0.39	
2,4-Dinitrotoluene	BXD2450-BLK1	ND	ug/L	2.0	0.26	
2,6-Dinitrotoluene	BXD2450-BLK1	ND	ug/L	2.0	0.41	
Di-n-octyl phthalate	BXD2450-BLK1	ND	ug/L	2.0	0.46	
1,2-Diphenylhydrazine	BXD2450-BLK1	ND	ug/L	2.0	0.34	
Endosulfan I	BXD2450-BLK1	ND	ug/L	10	1.7	
Endosulfan II	BXD2450-BLK1	ND	ug/L	10	1.2	
Endosulfan sulfate	BXD2450-BLK1	ND	ug/L	3.0	0.58	
Endrin	BXD2450-BLK1	ND	ug/L	2.0	1.1	
Endrin aldehyde	BXD2450-BLK1	ND	ug/L	10	0.52	
Fluoranthene	BXD2450-BLK1	ND	ug/L	2.0	0.20	
Fluorene	BXD2450-BLK1	ND	ug/L	2.0	0.28	
Heptachlor	BXD2450-BLK1	ND	ug/L	2.0	0.32	
Heptachlor epoxide	BXD2450-BLK1	ND	ug/L	2.0	0.27	
Hexachlorobenzene	BXD2450-BLK1	ND	ug/L	2.0	0.20	
Hexachlorobutadiene	BXD2450-BLK1	ND	ug/L	2.0	0.24	
Hexachlorocyclopentadiene	BXD2450-BLK1	ND	ug/L	2.0	0.30	
Hexachloroethane	BXD2450-BLK1	ND	ug/L	2.0	0.32	
Indeno[1,2,3-cd]pyrene	BXD2450-BLK1	ND	ug/L	2.0	0.26	
Isophorone	BXD2450-BLK1	ND	ug/L	2.0	0.31	
2-Methylnaphthalene	BXD2450-BLK1	ND	ug/L	2.0	0.28	
Naphthalene	BXD2450-BLK1	ND	ug/L	2.0	0.21	
2-Naphthylamine	BXD2450-BLK1	ND	ug/L	20	4.8	
2-Nitroaniline	BXD2450-BLK1	ND	ug/L	2.0	0.33	
3-Nitroaniline	BXD2450-BLK1	ND	ug/L	2.0	0.66	
4-Nitroaniline	BXD2450-BLK1	ND	ug/L	5.0	0.87	
Nitrobenzene	BXD2450-BLK1	ND	ug/L	2.0	0.26	
N-Nitrosodimethylamine	BXD2450-BLK1	ND	ug/L	2.0	0.61	
N-Nitrosodi-N-propylamine	BXD2450-BLK1	ND	ug/L	2.0	1.3	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2450						
N-Nitrosodiphenylamine	BXD2450-BLK1	ND	ug/L	2.0	0.44	
Phenanthrene	BXD2450-BLK1	ND	ug/L	2.0	0.20	
Pyrene	BXD2450-BLK1	ND	ug/L	2.0	0.26	
1,2,4-Trichlorobenzene	BXD2450-BLK1	ND	ug/L	2.0	0.27	
4-Chloro-3-methylphenol	BXD2450-BLK1	ND	ug/L	5.0	0.40	
2-Chlorophenol	BXD2450-BLK1	ND	ug/L	2.0	0.37	
2,4-Dichlorophenol	BXD2450-BLK1	ND	ug/L	2.0	0.43	
2,4-Dimethylphenol	BXD2450-BLK1	ND	ug/L	2.0	0.20	
4,6-Dinitro-2-methylphenol	BXD2450-BLK1	ND	ug/L	10	0.34	
2,4-Dinitrophenol	BXD2450-BLK1	ND	ug/L	10	0.20	
2-Methylphenol	BXD2450-BLK1	ND	ug/L	2.0	1.0	
3- & 4-Methylphenol	BXD2450-BLK1	ND	ug/L	2.0	1.6	
Total Methylphenol	BXD2450-BLK1	ND	ug/L	4.0	2.6	
2-Nitrophenol	BXD2450-BLK1	ND	ug/L	2.0	0.28	
4-Nitrophenol	BXD2450-BLK1	ND	ug/L	2.0	0.73	
Pentachlorophenol	BXD2450-BLK1	ND	ug/L	10	0.79	
Phenol	BXD2450-BLK1	ND	ug/L	2.0	0.20	
2,4,5-Trichlorophenol	BXD2450-BLK1	ND	ug/L	5.0	0.31	
2,4,6-Trichlorophenol	BXD2450-BLK1	ND	ug/L	5.0	0.60	
Acetophenone	BXD2450-BLK1	ND	ug/L	10	3.0	
2-Acetylaminofluorene	BXD2450-BLK1	ND	ug/L	10	0.38	
Acrolein, dimethyl acetal	BXD2450-BLK1	ND	ug/L	40	7.7	
4-Aminobiphenyl	BXD2450-BLK1	ND	ug/L	20	5.2	
Aramite	BXD2450-BLK1	ND	ug/L	10	2.3	
Benefin	BXD2450-BLK1	ND	ug/L	10	0.88	
Carbazole	BXD2450-BLK1	ND	ug/L	2.0	0.20	
cis-Chlordane	BXD2450-BLK1	ND	ug/L	5.0	0.30	
trans-Chlordane	BXD2450-BLK1	ND	ug/L	5.0	0.40	
Chlorobenzilate	BXD2450-BLK1	ND	ug/L	10	0.29	
1-Chloronaphthalene	BXD2450-BLK1	ND	ug/L	10	0.28	
cis-Diallate	BXD2450-BLK1	ND	ug/L	5.0	0.21	
trans-Diallate	BXD2450-BLK1	ND	ug/L	5.0	0.22	
Diallate	BXD2450-BLK1	ND	ug/L	10	0.42	
2,6-Dichlorophenol	BXD2450-BLK1	ND	ug/L	10	1.3	

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Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2450						
Dimethoate	BXD2450-BLK1	ND	ug/L	20	0.46	
p-(Dimethylamino)azobenzene	BXD2450-BLK1	ND	ug/L	10	0.54	
7,12-Dimethylbenz[a]anthracene	BXD2450-BLK1	ND	ug/L	10	0.41	
3,3'-Dimethylbenzidine	BXD2450-BLK1	ND	ug/L	20	5.4	
a,a-Dimethylphenethylamine	BXD2450-BLK1	ND	ug/L	20	2.5	
Dimethyl sulfoxide (DMSO)	BXD2450-BLK1	ND	ug/L	10	1.0	
1,3-Dinitrobenzene	BXD2450-BLK1	ND	ug/L	10	0.23	
Dinoseb	BXD2450-BLK1	ND	ug/L	10	0.61	
Diphenylamine	BXD2450-BLK1	ND	ug/L	10	0.20	
Disulfoton	BXD2450-BLK1	ND	ug/L	10	0.44	
Ethyl methacrylate	BXD2450-BLK1	ND	ug/L	10	0.19	
Ethyl methanesulfonate	BXD2450-BLK1	ND	ug/L	10	0.26	
Ethyl Parathion	BXD2450-BLK1	ND	ug/L	10	0.31	
Famphur	BXD2450-BLK1	ND	ug/L	20	8.3	
Hexachlorophene	BXD2450-BLK1	ND	ug/L	200	35	
Hexachloropropene	BXD2450-BLK1	ND	ug/L	20	0.46	
Isodrin	BXD2450-BLK1	ND	ug/L	10	0.31	
cis-Isosafrole	BXD2450-BLK1	ND	ug/L	5.0	0.41	
trans-Isosafrole	BXD2450-BLK1	ND	ug/L	5.0	0.36	
Isosafrole	BXD2450-BLK1	ND	ug/L	10	0.76	
Kepone	BXD2450-BLK1	ND	ug/L	20	1.5	
Methapyrilene	BXD2450-BLK1	ND	ug/L	10	1.5	
Methoxychlor	BXD2450-BLK1	ND	ug/L	10	0.40	
3-Methylcholanthrene	BXD2450-BLK1	ND	ug/L	10	0.56	
Methyl methacrylate	BXD2450-BLK1	ND	ug/L	40	22	
Methyl methanesulfonate	BXD2450-BLK1	ND	ug/L	10	0.42	
1-Methylnaphthalene	BXD2450-BLK1	ND	ug/L	10	0.41	
Methyl parathion	BXD2450-BLK1	ND	ug/L	10	0.32	
N-Methyl-2-pyrrolidinone	BXD2450-BLK1	ND	ug/L	10	1.6	
1,4-Naphthoquinone	BXD2450-BLK1	ND	ug/L	20	2.1	
1-Naphthylamine	BXD2450-BLK1	ND	ug/L	20	5.3	
5-Nitro-o-toluidine	BXD2450-BLK1	ND	ug/L	10	0.44	
4-Nitroquinoline 1-oxide	BXD2450-BLK1	ND	ug/L	20	12	
N-Nitrosodibutylamine	BXD2450-BLK1	ND	ug/L	10	0.41	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2450						
N-Nitrosodiethylamine	BXD2450-BLK1	ND	ug/L	10	0.43	
N-Nitrosomethylethylamine	BXD2450-BLK1	ND	ug/L	10	0.37	
N-Nitrosomorpholine	BXD2450-BLK1	ND	ug/L	10	0.35	
N-Nitrosopiperidine	BXD2450-BLK1	ND	ug/L	10	0.44	
N-Nitrosopyrrolidine	BXD2450-BLK1	ND	ug/L	10	0.44	
Pentachlorobenzene	BXD2450-BLK1	ND	ug/L	10	0.25	
Pentachloroethane	BXD2450-BLK1	ND	ug/L	20	1.0	
Pentachloronitrobenzene	BXD2450-BLK1	ND	ug/L	10	0.30	
Phenacetin	BXD2450-BLK1	ND	ug/L	10	0.20	
1,4-Phenylenediamine	BXD2450-BLK1	ND	ug/L	20	2.2	
Phorate	BXD2450-BLK1	ND	ug/L	10	0.34	
2-Picoline	BXD2450-BLK1	ND	ug/L	10	0.23	
PCB-1262	BXD2450-BLK1	ND	ug/L	50	25	
PCB-1260	BXD2450-BLK1	ND	ug/L	50	25	
PCB-1254	BXD2450-BLK1	ND	ug/L	50	25	
PCB-1248	BXD2450-BLK1	ND	ug/L	50	25	
PCB-1242	BXD2450-BLK1	ND	ug/L	50	25	
PCB-1232	BXD2450-BLK1	ND	ug/L	50	25	
PCB-1221	BXD2450-BLK1	ND	ug/L	50	25	
PCB-1268	BXD2450-BLK1	ND	ug/L	50	25	
PCB-1016	BXD2450-BLK1	ND	ug/L	50	25	
Total PCB's (Summation)	BXD2450-BLK1	ND	ug/L	50	25	
Prometryn	BXD2450-BLK1	ND	ug/L	10	1.7	
Pronamide	BXD2450-BLK1	ND	ug/L	10	0.29	
Propyleneglycol monomethyl ether acetate	BXD2450-BLK1	ND	ug/L	10	4.2	
Prowl	BXD2450-BLK1	ND	ug/L	10	0.83	
Pyridine	BXD2450-BLK1	ND	ug/L	10	0.27	
Safrole	BXD2450-BLK1	ND	ug/L	10	0.33	
Sulfotep	BXD2450-BLK1	ND	ug/L	10	0.43	
1,2,4,5-Tetrachlorobenzene	BXD2450-BLK1	ND	ug/L	10	0.39	
2,3,4,5-Tetrachlorophenol	BXD2450-BLK1	ND	ug/L	10	5.0	
2,3,4,6-Tetrachlorophenol	BXD2450-BLK1	ND	ug/L	10	4.7	
Thionazin	BXD2450-BLK1	ND	ug/L	10	0.21	
2-Toluidine	BXD2450-BLK1	ND	ug/L	10	0.49	

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Project Manager: David Conner

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

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2450						
Toxaphene	BXD2450-BLK1	ND	ug/L	100	50	
o,o,o-Triethylphosphorothioate	BXD2450-BLK1	ND	ug/L	10	0.42	
1,3,5-Trinitrobenzene	BXD2450-BLK1	ND	ug/L	10	0.30	
Tris(hydroxymethyl)nitromethane	BXD2450-BLK1	ND	ug/L	50	5.0	
2-Fluorophenol (Surrogate)	BXD2450-BLK1	33.2	%	30 - 120 (LCL - UCL)		
Phenol-d5 (Surrogate)	BXD2450-BLK1	29.0	%	12 - 110 (LCL - UCL)		
Nitrobenzene-d5 (Surrogate)	BXD2450-BLK1	83.6	%	60 - 130 (LCL - UCL)		
2-Fluorobiphenyl (Surrogate)	BXD2450-BLK1	76.7	%	55 - 125 (LCL - UCL)		
2,4,6-Tribromophenol (Surrogate)	BXD2450-BLK1	58.9	%	40 - 150 (LCL - UCL)		
p-Terphenyl-d14 (Surrogate)	BXD2450-BLK1	89.5	%	40 - 150 (LCL - UCL)		

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Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXD2450										
Acenaphthene	BXD2450-BS1	LCS	38.382	50.000	ug/L	76.8		50 - 120		
1,4-Dichlorobenzene	BXD2450-BS1	LCS	34.937	50.000	ug/L	69.9		50 - 120		
2,4-Dinitrotoluene	BXD2450-BS1	LCS	42.808	50.000	ug/L	85.6		50 - 120		
Hexachlorobenzene	BXD2450-BS1	LCS	39.303	50.000	ug/L	78.6		60 - 120		
Hexachlorobutadiene	BXD2450-BS1	LCS	27.641	50.000	ug/L	55.3		40 - 110		
Hexachloroethane	BXD2450-BS1	LCS	34.462	50.000	ug/L	68.9		40 - 120		
Nitrobenzene	BXD2450-BS1	LCS	33.482	50.000	ug/L	67.0		50 - 120		
N-Nitrosodi-N-propylamine	BXD2450-BS1	LCS	32.353	50.000	ug/L	64.7		50 - 120		
Pyrene	BXD2450-BS1	LCS	35.313	50.000	ug/L	70.6		40 - 140		
1,2,4-Trichlorobenzene	BXD2450-BS1	LCS	33.175	50.000	ug/L	66.3		45 - 120		
4-Chloro-3-methylphenol	BXD2450-BS1	LCS	37.402	50.000	ug/L	74.8		50 - 120		
2-Chlorophenol	BXD2450-BS1	LCS	32.403	50.000	ug/L	64.8		50 - 120		
2-Methylphenol	BXD2450-BS1	LCS	26.859	50.000	ug/L	53.7		40 - 110		
3- & 4-Methylphenol	BXD2450-BS1	LCS	58.489	100.00	ug/L	58.5		40 - 110		
4-Nitrophenol	BXD2450-BS1	LCS	17.860	50.000	ug/L	35.7		10 - 110		
Pentachlorophenol	BXD2450-BS1	LCS	38.184	50.000	ug/L	76.4		30 - 120		
Phenol	BXD2450-BS1	LCS	14.563	50.000	ug/L	29.1		20 - 110		
2,4,6-Trichlorophenol	BXD2450-BS1	LCS	38.531	50.000	ug/L	77.1		54 - 120		
Pyridine	BXD2450-BS1	LCS	15.187	50.000	ug/L	30.4		1 - 110		
2-Fluorophenol (Surrogate)	BXD2450-BS1	LCS	33.393	80.000	ug/L	41.7		30 - 120		
Phenol-d5 (Surrogate)	BXD2450-BS1	LCS	25.997	80.000	ug/L	32.5		12 - 110		
Nitrobenzene-d5 (Surrogate)	BXD2450-BS1	LCS	62.875	80.000	ug/L	78.6		60 - 130		
2-Fluorobiphenyl (Surrogate)	BXD2450-BS1	LCS	53.757	80.000	ug/L	67.2		55 - 125		
2,4,6-Tribromophenol (Surrogate)	BXD2450-BS1	LCS	58.707	80.000	ug/L	73.4		40 - 150		
p-Terphenyl-d14 (Surrogate)	BXD2450-BS1	LCS	29.502	40.000	ug/L	73.8		40 - 150		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes QC Batch ID: BXD2450 and Used client sample: N.

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Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXD2450		Used client sample: N								
Pyridine	MS	1407468-12	ND	3.9045	50.000	ug/L		7.8		J
	MSD	1407468-12	ND	13.955	50.000	ug/L	113	27.9	30	1 - 110 Q03
2-Fluorophenol (Surrogate)	MS	1407468-12	ND	37.382	80.000	ug/L		46.7		30 - 120
	MSD	1407468-12	ND	39.396	80.000	ug/L	5.2	49.2		30 - 120
Phenol-d5 (Surrogate)	MS	1407468-12	ND	28.414	80.000	ug/L		35.5		12 - 110
	MSD	1407468-12	ND	31.409	80.000	ug/L	10.0	39.3		12 - 110
Nitrobenzene-d5 (Surrogate)	MS	1407468-12	ND	70.775	80.000	ug/L		88.5		60 - 130
	MSD	1407468-12	ND	78.792	80.000	ug/L	10.7	98.5		60 - 130
2-Fluorobiphenyl (Surrogate)	MS	1407468-12	ND	56.876	80.000	ug/L		71.1		55 - 125
	MSD	1407468-12	ND	59.535	80.000	ug/L	4.6	74.4		55 - 125
2,4,6-Tribromophenol (Surrogate)	MS	1407468-12	ND	67.792	80.000	ug/L		84.7		40 - 150
	MSD	1407468-12	ND	69.051	80.000	ug/L	1.8	86.3		40 - 150
p-Terphenyl-d14 (Surrogate)	MS	1407468-12	ND	38.522	40.000	ug/L		96.3		40 - 150
	MSD	1407468-12	ND	44.365	40.000	ug/L	14.1	111		40 - 150

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Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2450						
1-Acetyl-2-thiourea	BXD2450-BLK1	0	ug/L			
2-Aminoanthraquinone	BXD2450-BLK1	0	ug/L			
3-Amino-9-ethylcarbazole	BXD2450-BLK1	0	ug/L			
Anilazine	BXD2450-BLK1	0	ug/L			
o-Anisidine	BXD2450-BLK1	0	ug/L			
Azinphos methyl	BXD2450-BLK1	0	ug/L			
Barban	BXD2450-BLK1	0	ug/L			
p-Benzoquinone	BXD2450-BLK1	0	ug/L			
Bromoxynil	BXD2450-BLK1	0	ug/L			
Captafol	BXD2450-BLK1	0	ug/L			
Captan	BXD2450-BLK1	0	ug/L			
Carbaryl	BXD2450-BLK1	0	ug/L			
Carbofuran	BXD2450-BLK1	0	ug/L			
Carbophenothion	BXD2450-BLK1	0	ug/L			
Chlorfenvinphos	BXD2450-BLK1	0	ug/L			
5-Chloro-2-methylaniline	BXD2450-BLK1	0	ug/L			
3-(Chloromethyl) pyridine hydrochloride	BXD2450-BLK1	0	ug/L			
4-Chloro-1,2-phenylenediamine	BXD2450-BLK1	0	ug/L			
4-Chloro-1,3-phenylenediamine	BXD2450-BLK1	0	ug/L			
Coumaphos	BXD2450-BLK1	0	ug/L			
p-Cresidine	BXD2450-BLK1	0	ug/L			
Crotoxypfos	BXD2450-BLK1	0	ug/L			
2-Cyclohexyl-4,6-dinitrophenol	BXD2450-BLK1	0	ug/L			
Demeton-O	BXD2450-BLK1	0	ug/L			
Demeton-S	BXD2450-BLK1	0	ug/L			
2,4-Diaminotoluene	BXD2450-BLK1	0	ug/L			
Dibenz[a,j]acridine	BXD2450-BLK1	0	ug/L			
Dibenzo[a,e]pyrene	BXD2450-BLK1	0	ug/L			
1,2-Dibromo-3-chloropropane	BXD2450-BLK1	0	ug/L			
Dichlone	BXD2450-BLK1	0	ug/L			
Dichlorvos	BXD2450-BLK1	0	ug/L			
Dicrotophos	BXD2450-BLK1	0	ug/L			
Diethylstilbestrol	BXD2450-BLK1	0	ug/L			
Diethyl sulfate	BXD2450-BLK1	0	ug/L			

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Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2450						
Dihydrosafrole	BXD2450-BLK1	0	ug/L			
3,3'-Dimethoxybenzidine	BXD2450-BLK1	0	ug/L			
1,2-Dinitrobenzene	BXD2450-BLK1	0	ug/L			
1,4-Dinitrobenzene	BXD2450-BLK1	0	ug/L			
Dinocap	BXD2450-BLK1	0	ug/L			
Dioxathion	BXD2450-BLK1	0	ug/L			
5,5-Diphenylhydantoin	BXD2450-BLK1	0	ug/L			
Endrin ketone	BXD2450-BLK1	0	ug/L			
EPN	BXD2450-BLK1	0	ug/L			
Ethion	BXD2450-BLK1	0	ug/L			
Ethyl carbamate	BXD2450-BLK1	0	ug/L			
Fensulfothion	BXD2450-BLK1	0	ug/L			
Fenthion	BXD2450-BLK1	0	ug/L			
Fluchloralin	BXD2450-BLK1	0	ug/L			
Hexamethylphosphoramide	BXD2450-BLK1	0	ug/L			
Hydroquinone	BXD2450-BLK1	0	ug/L			
Leptophos	BXD2450-BLK1	0	ug/L			
Malathion	BXD2450-BLK1	0	ug/L			
Maleic Anhydride	BXD2450-BLK1	0	ug/L			
Mestranol	BXD2450-BLK1	0	ug/L			
4,4'-Methylenebis(2-chloroaniline)	BXD2450-BLK1	0	ug/L			
4,4'-Methylenebis[N,N-dimethylaniline]	BXD2450-BLK1	0	ug/L			
Mevinphos	BXD2450-BLK1	0	ug/L			
Mexacarbate	BXD2450-BLK1	0	ug/L			
Mirex	BXD2450-BLK1	0	ug/L			
Monocrotophos	BXD2450-BLK1	0	ug/L			
Naled	BXD2450-BLK1	0	ug/L			
Nicotine	BXD2450-BLK1	0	ug/L			
5-Nitroacenaphthene	BXD2450-BLK1	0	ug/L			
5-Nitro-o-anisidine	BXD2450-BLK1	0	ug/L			
4-Nitrobiphenyl	BXD2450-BLK1	0	ug/L			
Nitrophen	BXD2450-BLK1	0	ug/L			
Octamethylpyrophosphoramide	BXD2450-BLK1	0	ug/L			
4,4'-Oxydianiline	BXD2450-BLK1	0	ug/L			

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Project Number: 2nd Qtr.
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2450						
Phenobarbital	BXD2450-BLK1	0	ug/L			
Phosalone	BXD2450-BLK1	0	ug/L			
Phosmet	BXD2450-BLK1	0	ug/L			
Phosphamidon	BXD2450-BLK1	0	ug/L			
Phthalic anhydride	BXD2450-BLK1	0	ug/L			
Piperonyl sulfoxide	BXD2450-BLK1	0	ug/L			
Propylthiouracil	BXD2450-BLK1	0	ug/L			
Resorcinol	BXD2450-BLK1	0	ug/L			
Strychnine	BXD2450-BLK1	0	ug/L			
Sulfallate	BXD2450-BLK1	0	ug/L			
Terbufos	BXD2450-BLK1	0	ug/L			
Tetrachlorvinphos	BXD2450-BLK1	0	ug/L			
TEPP	BXD2450-BLK1	0	ug/L			
Thiophenol (Benzenethiol)	BXD2450-BLK1	0	ug/L			
Toluene 2,4-diisocyanate	BXD2450-BLK1	0	ug/L			
Trifluralin	BXD2450-BLK1	0	ug/L			
2,4,5-Trimethylaniline	BXD2450-BLK1	0	ug/L			
Trimethyl phosphate	BXD2450-BLK1	0	ug/L			
Tris(2,3-dibromopropyl) phosphate	BXD2450-BLK1	0	ug/L			
Tri-p-tolyl phosphate	BXD2450-BLK1	0	ug/L			

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Project Number: 2nd Qtr.
Project Manager: David Conner

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2481						
Acenaphthene	BXD2481-BLK1	ND	ug/L	0.10	0.034	
Acenaphthylene	BXD2481-BLK1	ND	ug/L	0.10	0.034	
Anthracene	BXD2481-BLK1	ND	ug/L	0.10	0.034	
Benzo[a]anthracene	BXD2481-BLK1	ND	ug/L	0.10	0.034	
Benzo[b]fluoranthene	BXD2481-BLK1	ND	ug/L	0.10	0.034	
Benzo[k]fluoranthene	BXD2481-BLK1	ND	ug/L	0.10	0.034	
Benzo[a]pyrene	BXD2481-BLK1	ND	ug/L	0.10	0.034	
Benzo[g,h,i]perylene	BXD2481-BLK1	ND	ug/L	0.10	0.034	
Chrysene	BXD2481-BLK1	ND	ug/L	0.10	0.034	
Dibenzo[a,h]anthracene	BXD2481-BLK1	ND	ug/L	0.10	0.034	
Fluoranthene	BXD2481-BLK1	ND	ug/L	0.10	0.034	
Fluorene	BXD2481-BLK1	ND	ug/L	0.10	0.034	
Indeno[1,2,3-cd]pyrene	BXD2481-BLK1	ND	ug/L	0.10	0.034	
Naphthalene	BXD2481-BLK1	ND	ug/L	0.10	0.034	
Phenanthrene	BXD2481-BLK1	ND	ug/L	0.10	0.034	
Pyrene	BXD2481-BLK1	ND	ug/L	0.10	0.034	
Nitrobenzene-d5 (Surrogate)	BXD2481-BLK1	79.5	%	42 - 130 (LCL - UCL)		
2-Fluorobiphenyl (Surrogate)	BXD2481-BLK1	76.0	%	50 - 116 (LCL - UCL)		
p-Terphenyl-d14 (Surrogate)	BXD2481-BLK1	90.0	%	43 - 134 (LCL - UCL)		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXD2481										
Acenaphthene	BXD2481-BS1	LCS	1.0185	1.0000	ug/L	102		60 - 110		
Acenaphthylene	BXD2481-BS1	LCS	1.0185	1.0000	ug/L	102		56 - 120		
Anthracene	BXD2481-BS1	LCS	1.0282	1.0000	ug/L	103		57 - 128		
Benzo[a]anthracene	BXD2481-BS1	LCS	0.96030	1.0000	ug/L	96.0		64 - 130		
Benzo[b]fluoranthene	BXD2481-BS1	LCS	0.95060	1.0000	ug/L	95.1		50 - 130		
Benzo[k]fluoranthene	BXD2481-BS1	LCS	1.0185	1.0000	ug/L	102		60 - 120		
Benzo[a]pyrene	BXD2481-BS1	LCS	0.94090	1.0000	ug/L	94.1		60 - 125		
Benzo[g,h,i]perylene	BXD2481-BS1	LCS	0.82450	1.0000	ug/L	82.4		44 - 120		
Chrysene	BXD2481-BS1	LCS	1.0088	1.0000	ug/L	101		60 - 110		
Dibenzo[a,h]anthracene	BXD2481-BS1	LCS	0.82450	1.0000	ug/L	82.4		40 - 120		
Fluoranthene	BXD2481-BS1	LCS	1.0282	1.0000	ug/L	103		60 - 120		
Fluorene	BXD2481-BS1	LCS	0.97970	1.0000	ug/L	98.0		60 - 120		
Indeno[1,2,3-cd]pyrene	BXD2481-BS1	LCS	0.83420	1.0000	ug/L	83.4		40 - 130		
Naphthalene	BXD2481-BS1	LCS	0.99910	1.0000	ug/L	99.9		60 - 110		
Phenanthrene	BXD2481-BS1	LCS	0.98940	1.0000	ug/L	98.9		60 - 120		
Pyrene	BXD2481-BS1	LCS	1.1349	1.0000	ug/L	113		50 - 125		
Nitrobenzene-d5 (Surrogate)	BXD2481-BS1	LCS	4.1807	4.0000	ug/L	105		42 - 130		
2-Fluorobiphenyl (Surrogate)	BXD2481-BS1	LCS	4.0934	4.0000	ug/L	102		50 - 116		
p-Terphenyl-d14 (Surrogate)	BXD2481-BS1	LCS	4.6948	4.0000	ug/L	117		43 - 134		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXD2481		Used client sample: N								
Acenaphthene	MS	1407468-44	ND	1.0296	1.0000	ug/L		103	61 - 110	
	MSD	1407468-44	ND	1.0395	1.0000	ug/L	1.0	104	30	61 - 110
Acenaphthylene	MS	1407468-44	ND	0.99990	1.0000	ug/L		100	60 - 120	
	MSD	1407468-44	ND	0.99990	1.0000	ug/L	0	100	30	60 - 120
Anthracene	MS	1407468-44	ND	1.0197	1.0000	ug/L		102	61 - 120	
	MSD	1407468-44	ND	1.0098	1.0000	ug/L	1.0	101	30	61 - 120
Benzo[a]anthracene	MS	1407468-44	ND	0.94050	1.0000	ug/L		94.0	56 - 121	
	MSD	1407468-44	ND	0.96030	1.0000	ug/L	2.1	96.0	30	56 - 121
Benzo[b]fluoranthene	MS	1407468-44	ND	0.94050	1.0000	ug/L		94.0	50 - 130	
	MSD	1407468-44	ND	0.95040	1.0000	ug/L	1.0	95.0	30	50 - 130
Benzo[k]fluoranthene	MS	1407468-44	ND	1.0197	1.0000	ug/L		102	60 - 120	
	MSD	1407468-44	ND	1.0395	1.0000	ug/L	1.9	104	30	60 - 120
Benzo[a]pyrene	MS	1407468-44	ND	0.94050	1.0000	ug/L		94.0	60 - 120	
	MSD	1407468-44	ND	0.94050	1.0000	ug/L	0	94.0	30	60 - 120
Benzo[g,h,i]perylene	MS	1407468-44	ND	0.90090	1.0000	ug/L		90.1	45 - 120	
	MSD	1407468-44	ND	0.87120	1.0000	ug/L	3.4	87.1	30	45 - 120
Chrysene	MS	1407468-44	ND	1.0494	1.0000	ug/L		105	60 - 110	
	MSD	1407468-44	ND	1.0791	1.0000	ug/L	2.8	108	30	60 - 110
Dibenzo[a,h]anthracene	MS	1407468-44	ND	0.92070	1.0000	ug/L		92.1	40 - 120	
	MSD	1407468-44	ND	0.89100	1.0000	ug/L	3.3	89.1	30	40 - 120
Fluoranthene	MS	1407468-44	ND	1.0197	1.0000	ug/L		102	60 - 120	
	MSD	1407468-44	ND	1.0098	1.0000	ug/L	1.0	101	30	60 - 120
Fluorene	MS	1407468-44	ND	0.95040	1.0000	ug/L		95.0	60 - 120	
	MSD	1407468-44	ND	0.94050	1.0000	ug/L	1.0	94.0	30	60 - 120
Indeno[1,2,3-cd]pyrene	MS	1407468-44	ND	0.89100	1.0000	ug/L		89.1	40 - 130	
	MSD	1407468-44	ND	0.87120	1.0000	ug/L	2.2	87.1	30	40 - 130
Naphthalene	MS	1407468-44	ND	1.0197	1.0000	ug/L		102	60 - 110	
	MSD	1407468-44	ND	1.0197	1.0000	ug/L	0	102	30	60 - 110
Phenanthrene	MS	1407468-44	ND	1.0197	1.0000	ug/L		102	60 - 120	
	MSD	1407468-44	ND	1.0098	1.0000	ug/L	1.0	101	30	60 - 120
Pyrene	MS	1407468-44	ND	1.1682	1.0000	ug/L		117	50 - 125	
	MSD	1407468-44	ND	1.1484	1.0000	ug/L	1.7	115	30	50 - 125
Nitrobenzene-d5 (Surrogate)	MS	1407468-44	ND	4.1580	4.0000	ug/L		104	42 - 130	
	MSD	1407468-44	ND	4.1184	4.0000	ug/L	1.0	103		42 - 130
2-Fluorobiphenyl (Surrogate)	MS	1407468-44	ND	4.1382	4.0000	ug/L		103	50 - 116	
	MSD	1407468-44	ND	4.1679	4.0000	ug/L	0.7	104		50 - 116

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: BXD2481		Used client sample: N									
p-Terphenyl-d14 (Surrogate)	MS	1407468-44	ND	4.8312	4.0000	ug/L		121		43 - 134	
	MSD	1407468-44	ND	4.7124	4.0000	ug/L	2.5	118		43 - 134	

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Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD1898						
Chloride	BXD1898-BLK1	ND	mg/L	0.50	0.067	
Nitrate as N	BXD1898-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXD1898-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXD1972						
Nitrite as N	BXD1972-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXD2038						
Bicarbonate	BXD2038-BLK1	ND	mg/L	5.0	5.0	
Carbonate	BXD2038-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	BXD2038-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXD2183						
Total Recoverable Calcium	BXD2183-BLK1	ND	mg/L	0.10	0.014	
Total Recoverable Magnesium	BXD2183-BLK1	ND	mg/L	0.050	0.019	
Total Recoverable Sodium	BXD2183-BLK1	ND	mg/L	0.50	0.017	
Total Recoverable Potassium	BXD2183-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXD2270						
Total Dissolved Solids @ 180 C	BXD2270-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXE0276						
Perchlorate	BXE0276-BLK1	ND	ug/L	4.0	0.45	

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Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits		Lab
							RPD	Percent Recovery	
QC Batch ID: BXD1898									
Chloride	BXD1898-BS1	LCS	51.694	50.000	mg/L	103		90 - 110	
Nitrate as N	BXD1898-BS1	LCS	5.1740	5.0000	mg/L	103		90 - 110	
Sulfate	BXD1898-BS1	LCS	104.25	100.00	mg/L	104		90 - 110	
QC Batch ID: BXD1972									
Nitrite as N	BXD1972-BS1	LCS	0.50464	0.50000	mg/L	101		90 - 110	
QC Batch ID: BXD2038									
Total Alkalinity as CaCO3	BXD2038-BS3	LCS	100.86	100.00	mg/L	101		90 - 110	
pH	BXD2038-BS2	LCS	7.0300	7.0000	pH Units	100		95 - 105	
QC Batch ID: BXD2183									
Total Recoverable Calcium	BXD2183-BS1	LCS	9.0609	10.000	mg/L	90.6		85 - 115	
Total Recoverable Magnesium	BXD2183-BS1	LCS	9.4135	10.000	mg/L	94.1		85 - 115	
Total Recoverable Sodium	BXD2183-BS1	LCS	9.1662	10.000	mg/L	91.7		85 - 115	
Total Recoverable Potassium	BXD2183-BS1	LCS	9.0885	10.000	mg/L	90.9		85 - 115	
QC Batch ID: BXD2270									
Total Dissolved Solids @ 180 C	BXD2270-BS1	LCS	565.00	586.00	mg/L	96.4		90 - 110	
QC Batch ID: BXE0276									
Perchlorate	BXE0276-BS1	LCS	9.9126	10.000	ug/L	99.1		85 - 115	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Qualls. Includes sections for QC Batch IDs BXD1898, BXD1972, BXD2038, BXD2183, BXD2270, and BXE0276.

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Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXE0276		Used client sample: N								
Perchlorate	DUP	1408877-01	1.9370	2.0932		ug/L	7.8		15	J
	MS	1408877-01	1.9370	12.003	10.101	ug/L		99.7	80 - 120	
	MSD	1408877-01	1.9370	11.300	10.101	ug/L	6.0	92.7	15 80 - 120	

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Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD1956						
Hexavalent Chromium	BXD1956-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BXD2183						
Total Recoverable Iron	BXD2183-BLK1	7.1841	ug/L	50	6.5	J
QC Batch ID: BXD2310						
Total Recoverable Arsenic	BXD2310-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	BXD2310-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	BXD2310-BLK1	ND	ug/L	1.0	0.10	

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Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXD1956										
Hexavalent Chromium	BXD1956-BS1	LCS	0.050840	0.050000	mg/L	102		85 - 115		
QC Batch ID: BXD2183										
Total Recoverable Iron	BXD2183-BS1	LCS	947.73	1000.0	ug/L	94.8		85 - 115		
QC Batch ID: BXD2310										
Total Recoverable Arsenic	BXD2310-BS1	LCS	99.905	100.00	ug/L	99.9		85 - 115		
Total Recoverable Chromium	BXD2310-BS1	LCS	41.320	40.000	ug/L	103		85 - 115		
Total Recoverable Lead	BXD2310-BS1	LCS	103.12	100.00	ug/L	103		85 - 115		

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Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
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	
QC Batch ID: BXD1956		Used client sample: Y - Description: EB-2-4/22/14, 04/22/2014 11:10								
Hexavalent Chromium	DUP	1408977-02	ND	ND		mg/L			10	
	MS	1408977-02	ND	0.052577	0.052632	mg/L		99.9		85 - 115
	MSD	1408977-02	ND	0.052163	0.052632	mg/L	0.8	99.1	10	85 - 115
QC Batch ID: BXD2183		Used client sample: Y - Description: EB-2-4/22/14, 04/22/2014 11:10								
Total Recoverable Iron	DUP	1408977-02	ND	ND		ug/L			20	
	MS	1408977-02	ND	966.05	1000.0	ug/L		96.6		75 - 125
	MSD	1408977-02	ND	991.27	1000.0	ug/L	2.6	99.1	20	75 - 125
QC Batch ID: BXD2310		Used client sample: N								
Total Recoverable Arsenic	DUP	1408883-01	4.5310	4.4560		ug/L	1.7		20	
	MS	1408883-01	4.5310	107.46	100.00	ug/L		103		70 - 130
	MSD	1408883-01	4.5310	106.48	100.00	ug/L	0.9	102	20	70 - 130
Total Recoverable Chromium	DUP	1408883-01	ND	ND		ug/L			20	
	MS	1408883-01	ND	38.374	40.000	ug/L		95.9		70 - 130
	MSD	1408883-01	ND	38.832	40.000	ug/L	1.2	97.1	20	70 - 130
Total Recoverable Lead	DUP	1408883-01	ND	ND		ug/L			20	
	MS	1408883-01	ND	99.500	100.00	ug/L		99.5		70 - 130
	MSD	1408883-01	ND	98.291	100.00	ug/L	1.2	98.3	20	70 - 130

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3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 16:27
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A02 The difference between duplicate readings is less than the PQL.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.
- S05 The sample holding time was exceeded.
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.



Date of Report: 07/01/2014

David Conner

Tidewater Inc.

3761 Attucks Drive

Powell, OH 43065

Client Project: 2nd Qtr.

BCL Project: JPL- GW Monitoring Wells

BCL Work Order: 1409094

Invoice ID: B173060

Enclosed are the results of analyses for samples received by the laboratory on 4/23/2014. 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

Page 1 of 2

Report To: Tidewater, Inc.
Client: Tidewater, Inc. (P.O. #1213-000-02)
Attn: David Corner
Street Address: 3761 Alticks Drive
City: Powell **State:** OH **Zip:** 43065
Phone: (614) 792-2897 **Fax:** (614) 792-2897
Email Address: david.corner@tideh2o.net
Submission #: 14-09094

Project Description: JPL-GW Monitoring
Project Code: 2nd Qtr.
Sampler (s): Blaine Tech

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

Sample #	Sample Description	Date	Time	Matrix*	Analysis Requested												
					VOCs EPA 5242	TRM: Cr, Pb, As, Ca, Mg, K	Na, Fe	Hexavalent Cr-6 -7196 (mg/L)	Cl, NO3, NO2, SO4, Perch,	CO3, HCO3, Alk., TDS, pH	Orthophosphate 365.1	8270 Phenols	8270 PAHs	Notes			
-1	TB-3-4/23/14	4-23-14	0620	AO	X	X	X	X	X	X	X	X	X	X	X	X	Level IV
-2	EB-3-1/23/14		0630		X	X	X	X	X	X	X	X	X	X	X	X	Level IV
-3	MW-3-5		0700		X	X	X	X	X	X	X	X	X	X	X	X	Level IV
-4	MW-3-4		0740		X	X	X	X	X	X	X	X	X	X	X	X	Level IV
-5	MW-3-2		0840		X	X	X	X	X	X	X	X	X	X	X	X	Level IV
-6	MW-3-3		0815		X	X	X	X	X	X	X	X	X	X	X	X	Level IV
-7	MW-3-1		1040		X	X	X	X	X	X	X	X	X	X	X	X	Level IV
-8	MW-2.5-5		1200		X	X	X	X	X	X	X	X	X	X	X	X	Level IV
-9	MW-2.5-4		1240		X	X	X	X	X	X	X	X	X	X	X	X	Level IV
-10	MW-2.5-3		1320		X	X	X	X	X	X	X	X	X	X	X	X	Level IV
-11	MW-2.5-2		1350		X	X	X	X	X	X	X	X	X	X	X	X	Level IV

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

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

Lab TAT Approval: _____ *Additional Charges May Apply

Comments:
 PLEASE NOTATE WHICH SAMPLES TO USE FOR 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 (norm GC)

Cost Center:
 1. Requisitioned By: [Signature] Date: 4-23-14 Time: 1630
 2. Requisitioned By: [Signature] Date: 4-23-14 Time: 1630
 3. Requisitioned By: [Signature] Date: 4-23-14 Time: 1930

Global ID:
 1. Received By: [Signature] Date: 4/23/14 Time: 1630
 2. Received By: [Signature] Date: 4/23/14 Time: 1630
 3. Received By: [Signature] Date: 4/23/14 Time: 1930

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 #: 14-09094

Project Description: JPL-GW Monitoring
 Project Code: 2nd Qtr.
 Sampler (s): Blaire Tech

Analysis Requested

Analysis Requested	Date	Time	Matrix*
VOCs EPA 5242	4-23-14	1720	AG
TRM: Cr, Pb, As, Ca, Mg, K			
Na, Fe			
Hexavalent Cr6 -7196 (mg/L)			
Cl, NO3, NO2, SO4, Perch.,			
CO3, HCO3, Alk., TDS, pH			
Orthophosphate 365.1			
8270 Phenols			
8270 PAHs			

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: 21075

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

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

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

Lab TAT Approval: _____ *Additional Charges May Apply

Comments:

PLEASE NOTATE WHICH SAMPLES TO USE FOR 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: _____ Global ID: _____

1. Requisitioned By: [Signature] Date: 4-23-14 Time: 1630
 2. Requisitioned By: [Signature] Date: 4-23-14 Time: 1630
 3. Requisitioned By: [Signature] Date: 4-23-14 Time: 1640

1. Received By: [Signature] Date: 4-23-14 Time: 1630
 2. Received By: [Signature] Date: 4-23-14 Time: 1640
 3. Received By: [Signature] Date: 4-23-14 Time: 1930

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. 15 07/01/13 Page 1 Of 2

Submission #: 14-09094

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 [x]

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: 0.95 Container: PE Thermometer ID: 207
Temperature: (A) 2.1 °C (C) 2.1 °C

Date/Time: 4/23/14 1930
Analyst Init: BP

Table with columns for Sample Containers and Sample Numbers (1-10). Rows include various sample types like QT GENERAL MINERAL, PT PE UNPRESERVED, etc. with handwritten entries like 'B', 'C', 'A', 'A3', 'A9', 'D,E'.

Comments: _____
Sample Numbering Completed By: BP Date/Time: 4/23/14 2135

A = Actual / C = Corrected

[S:\MyDOCS\WordPerfect\LAB_DOCS\FORMS\SAMREC15]



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

Submission #: 1409094

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: 0.95 Container: PE Thermometer ID: 207 Date/Time: 1/23/14 1930
 Temperature: (A) 2.1 °C / (C) 2.1 °C Analyst Init: BP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	B	B								
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS	C	C								
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A3	A3								
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: BP Date/Time: 1/23/14 2135



Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1409094-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-3-4/23/14 Sampled By: Blaine Tech of BAT	Receive Date: 04/23/2014 19:30 Sampling Date: 04/23/2014 06:20 Sample Depth: --- Lab Matrix: Water Sample Type: Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-3-4/23/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1409094-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: EB-3-4/23/14 Sampled By: Blaine Tech of BAT	Receive Date: 04/23/2014 19:30 Sampling Date: 04/23/2014 06:30 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-3-4/23/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1409094-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-3-5 Sampled By: Blaine Tech of BAT	Receive Date: 04/23/2014 19:30 Sampling Date: 04/23/2014 07:00 Sample Depth: --- Lab Matrix: Water Sample Type: 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: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1409094-04	COC Number: ---	Receive Date: 04/23/2014 19:30
	Project Number: JPL-GW	Sampling Date: 04/23/2014 07:40
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-3-4	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Aqueous
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-3-4
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1409094-05	COC Number: ---	Receive Date: 04/23/2014 19:30
	Project Number: JPL-GW	Sampling Date: 04/23/2014 08:40
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-3-2	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Aqueous
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-3-2
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1409094-06	COC Number: ---	Receive Date: 04/23/2014 19:30
	Project Number: JPL-GW	Sampling Date: 04/23/2014 08:15
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-3-3	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Aqueous
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-3-3
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1409094-07	COC Number: ---	Receive Date: 04/23/2014 19:30
	Project Number: JPL-GW	Sampling Date: 04/23/2014 10:40
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-3-1	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Aqueous
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-3-1
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1409094-08	COC Number: ---	Receive Date: 04/23/2014 19:30
	Project Number: JPL-GW	Sampling Date: 04/23/2014 12:00
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-25-5	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Aqueous
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-25-5
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1409094-09	COC Number: ---	Receive Date: 04/23/2014 19:30
	Project Number: JPL-GW	Sampling Date: 04/23/2014 12:40
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-25-4	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Aqueous
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-25-4
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1409094-10	COC Number: ---	Receive Date: 04/23/2014 19:30
	Project Number: JPL-GW	Sampling Date: 04/23/2014 13:20
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-25-3	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Aqueous
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-25-3
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1409094-11	COC Number: ---	Receive Date: 04/23/2014 19:30
	Project Number: JPL-GW	Sampling Date: 04/23/2014 13:50
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-25-2	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Aqueous
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-25-2
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1409094-12	COC Number: ---	Receive Date: 04/23/2014 19:30
	Project Number: JPL-GW	Sampling Date: 04/23/2014 14:20
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-25-1	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Aqueous
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-25-1
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409094-01	Client Sample Name: JPL-GW, TB-3-4/23/14, 4/23/2014 6:20:00AM, Blaine Tech
----------------------------------	---

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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409094-01 **Client Sample Name:** JPL-GW, TB-3-4/23/14, 4/23/2014 6:20:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	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: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409094-01 Client Sample Name: JPL-GW, TB-3-4/23/14, 4/23/2014 6:20:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/24/14	04/24/14 11:27	MGC	MS-V5	1	BXD2012

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Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409094-01	Client Sample Name: JPL-GW, TB-3-4/23/14, 4/23/2014 6:20:00AM, 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	04/24/14	04/24/14 11:27	MGC	MS-V5	1	BXD2012

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Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409094-02	Client Sample Name: JPL-GW, EB-3-4/23/14, 4/23/2014 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		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: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409094-02 Client Sample Name: JPL-GW, EB-3-4/23/14, 4/23/2014 6:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	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: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409094-02	Client Sample Name: JPL-GW, EB-3-4/23/14, 4/23/2014 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		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)	92.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/24/14	04/24/14 11:50	MGC	MS-V5	1	BXD2012

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Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409094-02	Client Sample Name: JPL-GW, EB-3-4/23/14, 4/23/2014 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	04/24/14	04/24/14 11:50	MGC	MS-V5	1	BXD2012

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Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409094-02		Client Sample Name: JPL-GW, EB-3-4/23/14, 4/23/2014 6:30:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	0.026	mg/L	0.10	0.018	EPA-200.7	ND	J	1
Total Recoverable Magnesium	ND	mg/L	0.050	0.020	EPA-200.7	ND		1
Total Recoverable Sodium	ND	mg/L	0.50	0.017	EPA-200.7	ND		1
Total Recoverable Potassium	ND	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	ND	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	ND	mg/L	0.50	0.067	EPA-300.0	ND		3
Nitrate as N	ND	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	ND	mg/L	1.0	0.18	EPA-300.0	ND		3
pH	5.75	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	ND	mg/L	6.7	6.7	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	04/25/14	04/29/14	23:31	JRG	PE-OP2	1	BXD2183
2	SM-2320B	04/25/14	04/25/14	08:09	RML	MET-1	1	BXD2110
3	EPA-300.0	04/24/14	04/24/14	02:25	LD1	IC2	1	BXD2022
4	EPA-150.1	04/25/14	04/25/14	08:09	RML	MET-1	1	BXD2110
5	EPA-160.1	04/28/14	04/28/14	13:30	FRP	MANUAL	0.667	BXD2383
6	EPA-353.2	04/24/14	04/24/14	09:51	TDC	KONE-1	1	BXD2051
7	EPA-314.0	05/05/14	05/05/14	20:36	OLH	IC6	1	BXE0392

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Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409094-02	Client Sample Name: JPL-GW, EB-3-4/23/14, 4/23/2014 6:30:00AM, 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
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	0.68	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	ND	ug/L	50	6.5	EPA-200.7	7.2		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	0.16		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/23/14	04/23/14 22:58	OLH	KONE-1	1	BXD2042
2	EPA-200.8	04/28/14	05/01/14 23:18	SRM	PE-EL2	1	BXD2318
3	EPA-200.7	04/25/14	04/29/14 23:31	JRG	PE-OP2	1	BXD2183

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409094-03	Client Sample Name: JPL-GW, MW-3-5, 4/23/2014 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		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.19	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409094-03	Client Sample Name: JPL-GW, MW-3-5, 4/23/2014 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	0.20	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409094-03	Client Sample Name: JPL-GW, MW-3-5, 4/23/2014 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		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)	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	04/24/14	04/24/14 12:13	MGC	MS-V5	1	BXD2012

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Tidewater Inc.
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Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409094-03	Client Sample Name: JPL-GW, MW-3-5, 4/23/2014 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	04/24/14	04/24/14 12:13	MGC	MS-V5	1	BXD2012

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409094-03		Client Sample Name: JPL-GW, MW-3-5, 4/23/2014 7:00:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	42	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	14	mg/L	0.050	0.020	EPA-200.7	ND		1
Total Recoverable Sodium	41	mg/L	0.50	0.017	EPA-200.7	ND		1
Total Recoverable Potassium	2.4	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	200	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	170	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	32	mg/L	0.50	0.067	EPA-300.0	ND		3
Nitrate as N	1.8	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	21	mg/L	1.0	0.18	EPA-300.0	ND		3
pH	7.76	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	350	mg/L	20	20	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-200.7	04/25/14	04/29/14	23:34	JRG	PE-OP2	1	BXD2183	
2	SM-2320B	04/25/14	04/25/14	08:18	RML	MET-1	1	BXD2110	
3	EPA-300.0	04/24/14	04/24/14	02:40	LD1	IC2	1	BXD2022	
4	EPA-150.1	04/25/14	04/25/14	08:18	RML	MET-1	1	BXD2110	
5	EPA-160.1	04/28/14	04/28/14	13:30	FRP	MANUAL	2	BXD2383	
6	EPA-353.2	04/24/14	04/24/14	09:51	TDC	KONE-1	1	BXD2051	
7	EPA-314.0	05/05/14	05/05/14	18:31	OLH	IC6	1	BXE0392	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409094-03	Client Sample Name: JPL-GW, MW-3-5, 4/23/2014 7:00:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00075	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Arsenic	7.7	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	11	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	5100	ug/L	50	6.5	EPA-200.7	7.2		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	0.16		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/23/14	04/23/14 22:58	OLH	KONE-1	1	BXD2042
2	EPA-200.8	04/28/14	05/01/14 23:21	SRM	PE-EL2	1	BXD2318
3	EPA-200.7	04/25/14	04/29/14 23:34	JRG	PE-OP2	1	BXD2183

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Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409094-04	Client Sample Name: JPL-GW, MW-3-4, 4/23/2014 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		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.14	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	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: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409094-04	Client Sample Name: JPL-GW, MW-3-4, 4/23/2014 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	0.15	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409094-04	Client Sample Name: JPL-GW, MW-3-4, 4/23/2014 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		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)	100	%	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	04/24/14	04/24/14 12:35	MGC	MS-V5	1	BXD2012

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Tidewater Inc.
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Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409094-04	Client Sample Name: JPL-GW, MW-3-4, 4/23/2014 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	04/24/14	04/24/14 12:35	MGC	MS-V5	1	BXD2012

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409094-04		Client Sample Name: JPL-GW, MW-3-4, 4/23/2014 7:40:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	44	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	14	mg/L	0.050	0.020	EPA-200.7	ND		1
Total Recoverable Sodium	42	mg/L	0.50	0.017	EPA-200.7	ND		1
Total Recoverable Potassium	2.5	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	200	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	170	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	32	mg/L	0.50	0.067	EPA-300.0	ND		3
Nitrate as N	2.0	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	22	mg/L	1.0	0.18	EPA-300.0	ND		3
pH	7.72	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	260	mg/L	20	20	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	1.3	ug/L	4.0	0.45	EPA-314.0	ND	J	7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	04/25/14	04/29/14	23:37	JRG	PE-OP2	1	BXD2183
2	SM-2320B	04/25/14	04/25/14	08:24	RML	MET-1	1	BXD2110
3	EPA-300.0	04/24/14	04/24/14	02:55	LD1	IC2	1	BXD2022
4	EPA-150.1	04/25/14	04/25/14	08:24	RML	MET-1	1	BXD2110
5	EPA-160.1	04/28/14	04/28/14	13:45	FRP	MANUAL	2	BXD2384
6	EPA-353.2	04/24/14	04/24/14	09:56	TDC	KONE-1	1	BXD2051
7	EPA-314.0	05/05/14	05/05/14	20:49	OLH	IC6	1	BXE0392

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409094-04	Client Sample Name: JPL-GW, MW-3-4, 4/23/2014 7:40:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00073	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Arsenic	14	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	15	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	13000	ug/L	50	6.5	EPA-200.7	7.2		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	0.16		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/23/14	04/23/14 22:58	OLH	KONE-1	1	BXD2042
2	EPA-200.8	04/28/14	05/01/14 23:24	SRM	PE-EL2	1	BXD2318
3	EPA-200.7	04/25/14	04/29/14 23:37	JRG	PE-OP2	1	BXD2183

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Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409094-05	Client Sample Name: JPL-GW, MW-3-2, 4/23/2014 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	0.22	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.49	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409094-05	Client Sample Name: JPL-GW, MW-3-2, 4/23/2014 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
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: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409094-05	Client Sample Name: JPL-GW, MW-3-2, 4/23/2014 8:40:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.2	%	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	04/24/14	04/24/14 12:58	MGC	MS-V5	1	BXD2012

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409094-05	Client Sample Name: JPL-GW, MW-3-2, 4/23/2014 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	04/24/14	04/24/14 12:58	MGC	MS-V5	1	BXD2012

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Tidewater Inc.
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Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1409094-05	Client Sample Name: JPL-GW, MW-3-2, 4/23/2014 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Acenaphthylene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Aldrin	ND	ug/L	2.0	0.35	EPA-8270C	ND		1
Aniline	ND	ug/L	5.0	0.69	EPA-8270C	ND		1
Anthracene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Benzidine	ND	ug/L	20	7.1	EPA-8270C	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	0.38	EPA-8270C	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	0.41	EPA-8270C	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
Benzoic acid	ND	ug/L	10	5.8	EPA-8270C	ND		1
Benzyl alcohol	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	0.47	EPA-8270C	ND		1
alpha-BHC	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
beta-BHC	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
delta-BHC	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.0	0.68	EPA-8270C	ND		1
bis(2-Chloroisopropyl) ether	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
bis(2-Ethylhexyl)phthalate	ND	ug/L	4.0	3.0	EPA-8270C	ND		1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
4-Chloroaniline	ND	ug/L	2.0	0.69	EPA-8270C	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
Chrysene	ND	ug/L	2.0	0.63	EPA-8270C	ND		1
4,4'-DDD	ND	ug/L	2.0	0.48	EPA-8270C	ND		1
4,4'-DDE	ND	ug/L	3.0	0.41	EPA-8270C	ND		1
4,4'-DDT	ND	ug/L	2.0	0.43	EPA-8270C	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	0.26	EPA-8270C	ND		1
Dibenzofuran	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	0.37	EPA-8270C	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1409094-05	Client Sample Name: JPL-GW, MW-3-2, 4/23/2014 8:40:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	2.0	0.35	EPA-8270C	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	8.2	EPA-8270C	ND		1
Dieldrin	ND	ug/L	3.0	0.41	EPA-8270C	ND		1
Diethyl phthalate	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.39	EPA-8270C	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	0.39	EPA-8270C	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.41	EPA-8270C	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.46	EPA-8270C	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
Endosulfan I	ND	ug/L	10	1.7	EPA-8270C	ND		1
Endosulfan II	ND	ug/L	10	1.2	EPA-8270C	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.58	EPA-8270C	ND		1
Endrin	ND	ug/L	2.0	1.1	EPA-8270C	ND		1
Endrin aldehyde	ND	ug/L	10	0.52	EPA-8270C	ND		1
Fluoranthene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Fluorene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Heptachlor	ND	ug/L	2.0	0.32	EPA-8270C	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
Hexachlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Hexachlorobutadiene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Hexachlorocyclopentadiene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Hexachloroethane	ND	ug/L	2.0	0.32	EPA-8270C	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
Isophorone	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Naphthalene	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
2-Naphthylamine	ND	ug/L	20	4.8	EPA-8270C	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.66	EPA-8270C	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.87	EPA-8270C	ND		1
Nitrobenzene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1409094-05	Client Sample Name: JPL-GW, MW-3-2, 4/23/2014 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.0	0.61	EPA-8270C	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	1.3	EPA-8270C	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	0.44	EPA-8270C	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Pyrene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.40	EPA-8270C	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.37	EPA-8270C	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.43	EPA-8270C	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.34	EPA-8270C	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-8270C	ND		1
2-Methylphenol	ND	ug/L	2.0	1.0	EPA-8270C	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	1.6	EPA-8270C	ND		1
Total Methylphenol	ND	ug/L	4.0	2.6	EPA-8270C	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.73	EPA-8270C	ND		1
Pentachlorophenol	ND	ug/L	10	0.79	EPA-8270C	ND		1
Phenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.31	EPA-8270C	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.60	EPA-8270C	ND		1
Acetophenone	ND	ug/L	10	3.0	EPA-8270C	ND		1
2-Acetylaminofluorene	ND	ug/L	10	0.38	EPA-8270C	ND		1
Acrolein, dimethyl acetal	ND	ug/L	40	7.7	EPA-8270C	ND		1
4-Aminobiphenyl	ND	ug/L	20	5.2	EPA-8270C	ND		1
Aramite	ND	ug/L	10	2.3	EPA-8270C	ND		1
Benefin	ND	ug/L	10	0.88	EPA-8270C	ND		1
Carbazole	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
cis-Chlordane	ND	ug/L	5.0	0.30	EPA-8270C	ND		1
trans-Chlordane	ND	ug/L	5.0	0.40	EPA-8270C	ND		1
Chlorobenzilate	ND	ug/L	10	0.29	EPA-8270C	ND		1
1-Chloronaphthalene	ND	ug/L	10	0.28	EPA-8270C	ND		1
cis-Diallate	ND	ug/L	5.0	0.21	EPA-8270C	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1409094-05	Client Sample Name: JPL-GW, MW-3-2, 4/23/2014 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
trans-Diallate	ND	ug/L	5.0	0.22	EPA-8270C	ND		1
Diallate	ND	ug/L	10	0.42	EPA-8270C	ND		1
2,6-Dichlorophenol	ND	ug/L	10	1.3	EPA-8270C	ND		1
Dimethoate	ND	ug/L	20	0.46	EPA-8270C	ND		1
p-(Dimethylamino)azobenzene	ND	ug/L	10	0.54	EPA-8270C	ND		1
7,12-Dimethylbenz[a]anthracene	ND	ug/L	10	0.41	EPA-8270C	ND		1
3,3'-Dimethylbenzidine	ND	ug/L	20	5.4	EPA-8270C	ND		1
a,a-Dimethylphenethylamine	ND	ug/L	20	2.5	EPA-8270C	ND		1
Dimethyl sulfoxide (DMSO)	ND	ug/L	10	1.0	EPA-8270C	ND		1
1,3-Dinitrobenzene	ND	ug/L	10	0.23	EPA-8270C	ND		1
Dinoseb	ND	ug/L	10	0.61	EPA-8270C	ND		1
Diphenylamine	ND	ug/L	10	0.20	EPA-8270C	ND		1
Disulfoton	ND	ug/L	10	0.44	EPA-8270C	ND		1
Ethyl methacrylate	ND	ug/L	10	0.19	EPA-8270C	ND		1
Ethyl methanesulfonate	ND	ug/L	10	0.26	EPA-8270C	ND		1
Ethyl Parathion	ND	ug/L	10	0.31	EPA-8270C	ND		1
Famphur	ND	ug/L	20	8.3	EPA-8270C	ND		1
Hexachlorophene	ND	ug/L	200	35	EPA-8270C	ND		1
Hexachloropropene	ND	ug/L	20	0.46	EPA-8270C	ND		1
Isodrin	ND	ug/L	10	0.31	EPA-8270C	ND		1
cis-Isosafrole	ND	ug/L	5.0	0.41	EPA-8270C	ND		1
trans-Isosafrole	ND	ug/L	5.0	0.36	EPA-8270C	ND		1
Isosafrole	ND	ug/L	10	0.76	EPA-8270C	ND		1
Kepone	ND	ug/L	20	1.5	EPA-8270C	ND		1
Methapyrilene	ND	ug/L	10	1.5	EPA-8270C	ND		1
Methoxychlor	ND	ug/L	10	0.40	EPA-8270C	ND		1
3-Methylcholanthrene	ND	ug/L	10	0.56	EPA-8270C	ND		1
Methyl methacrylate	ND	ug/L	40	22	EPA-8270C	ND		1
Methyl methanesulfonate	ND	ug/L	10	0.42	EPA-8270C	ND		1
1-Methylnaphthalene	ND	ug/L	10	0.41	EPA-8270C	ND		1
Methyl parathion	ND	ug/L	10	0.32	EPA-8270C	ND		1
N-Methyl-2-pyrrolidinone	ND	ug/L	10	1.6	EPA-8270C	ND		1
1,4-Naphthoquinone	ND	ug/L	20	2.1	EPA-8270C	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1409094-05	Client Sample Name: JPL-GW, MW-3-2, 4/23/2014 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1-Naphthylamine	ND	ug/L	20	5.3	EPA-8270C	ND		1
5-Nitro-o-toluidine	ND	ug/L	10	0.44	EPA-8270C	ND		1
4-Nitroquinoline 1-oxide	ND	ug/L	20	12	EPA-8270C	ND		1
N-Nitrosodibutylamine	ND	ug/L	10	0.41	EPA-8270C	ND		1
N-Nitrosodiethylamine	ND	ug/L	10	0.43	EPA-8270C	ND		1
N-Nitrosomethylethylamine	ND	ug/L	10	0.37	EPA-8270C	ND		1
N-Nitrosomorpholine	ND	ug/L	10	0.35	EPA-8270C	ND		1
N-Nitrosopiperidine	ND	ug/L	10	0.44	EPA-8270C	ND		1
N-Nitrosopyrrolidine	ND	ug/L	10	0.44	EPA-8270C	ND		1
Pentachlorobenzene	ND	ug/L	10	0.25	EPA-8270C	ND		1
Pentachloroethane	ND	ug/L	20	1.0	EPA-8270C	ND		1
Pentachloronitrobenzene	ND	ug/L	10	0.30	EPA-8270C	ND		1
Phenacetin	ND	ug/L	10	0.20	EPA-8270C	ND		1
1,4-Phenylenediamine	ND	ug/L	20	2.2	EPA-8270C	ND		1
Phorate	ND	ug/L	10	0.34	EPA-8270C	ND		1
2-Picoline	ND	ug/L	10	0.23	EPA-8270C	ND		1
PCB-1016	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1221	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1232	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1242	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1248	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1254	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1260	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1262	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1268	ND	ug/L	50	25	EPA-8270C	ND		1
Total PCB's (Summation)	ND	ug/L	50	25	EPA-8270C	ND		1
Prometryn	ND	ug/L	10	1.7	EPA-8270C	ND		1
Pronamide	ND	ug/L	10	0.29	EPA-8270C	ND		1
Propyleneglycol monomethyl ether acetate	ND	ug/L	10	4.2	EPA-8270C	ND		1
Prowl	ND	ug/L	10	0.83	EPA-8270C	ND		1
Pyridine	ND	ug/L	10	0.27	EPA-8270C	ND		1
Safrole	ND	ug/L	10	0.33	EPA-8270C	ND		1
Sulfotep	ND	ug/L	10	0.43	EPA-8270C	ND		1

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Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1409094-05	Client Sample Name: JPL-GW, MW-3-2, 4/23/2014 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10	0.39	EPA-8270C	ND		1
2,3,4,5-Tetrachlorophenol	ND	ug/L	10	5.0	EPA-8270C	ND		1
2,3,4,6-Tetrachlorophenol	ND	ug/L	10	4.7	EPA-8270C	ND		1
Thionazin	ND	ug/L	10	0.21	EPA-8270C	ND		1
2-Toluidine	ND	ug/L	10	0.49	EPA-8270C	ND		1
Toxaphene	ND	ug/L	100	50	EPA-8270C	ND		1
o,o,o-Triethylphosphorothioate	ND	ug/L	10	0.42	EPA-8270C	ND		1
1,3,5-Trinitrobenzene	ND	ug/L	10	0.30	EPA-8270C	ND		1
Tris(hydroxymethyl)nitromethane	ND	ug/L	50	5.0	EPA-8270C	ND		1
2-Fluorophenol (Surrogate)	44.4	%	30 - 120 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	33.3	%	12 - 110 (LCL - UCL)		EPA-8270C			1
Nitrobenzene-d5 (Surrogate)	89.5	%	60 - 130 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	92.0	%	55 - 125 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	88.0	%	40 - 150 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	101	%	40 - 150 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	04/25/14	05/17/14 09:54	VH1	MS-B2	1	BXD2450

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Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

BCL Sample ID:	1409094-05	Client Sample Name:	JPL-GW, MW-3-2, 4/23/2014 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1-Acetyl-2-thiourea	0	ug/L			EPA-8270C	0		1
2-Aminoanthraquinone	0	ug/L			EPA-8270C	0		1
3-Amino-9-ethylcarbazole	0	ug/L			EPA-8270C	0		1
Anilazine	0	ug/L			EPA-8270C	0		1
o-Anisidine	0	ug/L			EPA-8270C	0		1
Azinphos methyl	0	ug/L			EPA-8270C	0		1
Barban	0	ug/L			EPA-8270C	0		1
p-Benzoquinone	0	ug/L			EPA-8270C	0		1
Bromoxynil	0	ug/L			EPA-8270C	0		1
Captafol	0	ug/L			EPA-8270C	0		1
Captan	0	ug/L			EPA-8270C	0		1
Carbaryl	0	ug/L			EPA-8270C	0		1
Carbofuran	0	ug/L			EPA-8270C	0		1
Carbophenothion	0	ug/L			EPA-8270C	0		1
Chlorfenvinphos	0	ug/L			EPA-8270C	0		1
5-Chloro-2-methylaniline	0	ug/L			EPA-8270C	0		1
3-(Chloromethyl) pyridine hydrochloride	0	ug/L			EPA-8270C	0		1
4-Chloro-1,2-phenylenediamine	0	ug/L			EPA-8270C	0		1
4-Chloro-1,3-phenylenediamine	0	ug/L			EPA-8270C	0		1
Coumaphos	0	ug/L			EPA-8270C	0		1
p-Cresidine	0	ug/L			EPA-8270C	0		1
Crotoxyphos	0	ug/L			EPA-8270C	0		1
2-Cyclohexyl-4,6-dinitrophenol	0	ug/L			EPA-8270C	0		1
Demeton-O	0	ug/L			EPA-8270C	0		1
Demeton-S	0	ug/L			EPA-8270C	0		1
2,4-Diaminotoluene	0	ug/L			EPA-8270C	0		1
Dibenz[a,j]acridine	0	ug/L			EPA-8270C	0		1
Dibenzo[a,e]pyrene	0	ug/L			EPA-8270C	0		1
1,2-Dibromo-3-chloropropane	0	ug/L			EPA-8270C	0		1
Dichlone	0	ug/L			EPA-8270C	0		1
Dichlorvos	0	ug/L			EPA-8270C	0		1
Dicrotophos	0	ug/L			EPA-8270C	0		1
Diethylstilbestrol	0	ug/L			EPA-8270C	0		1

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Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

BCL Sample ID:	1409094-05	Client Sample Name:	JPL-GW, MW-3-2, 4/23/2014 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl sulfate	0	ug/L			EPA-8270C	0		1
Dihydrosafrole	0	ug/L			EPA-8270C	0		1
3,3'-Dimethoxybenzidine	0	ug/L			EPA-8270C	0		1
1,2-Dinitrobenzene	0	ug/L			EPA-8270C	0		1
1,4-Dinitrobenzene	0	ug/L			EPA-8270C	0		1
Dinocap	0	ug/L			EPA-8270C	0		1
Dioxathion	0	ug/L			EPA-8270C	0		1
5,5-Diphenylhydantoin	0	ug/L			EPA-8270C	0		1
Endrin ketone	0	ug/L			EPA-8270C	0		1
EPN	0	ug/L			EPA-8270C	0		1
Ethion	0	ug/L			EPA-8270C	0		1
Ethyl carbamate	0	ug/L			EPA-8270C	0		1
Fensulfothion	0	ug/L			EPA-8270C	0		1
Fenthion	0	ug/L			EPA-8270C	0		1
Fluchloralin	0	ug/L			EPA-8270C	0		1
Hexamethylphosphoramide	0	ug/L			EPA-8270C	0		1
Hydroquinone	0	ug/L			EPA-8270C	0		1
Leptophos	0	ug/L			EPA-8270C	0		1
Malathion	0	ug/L			EPA-8270C	0		1
Maleic Anhydride	0	ug/L			EPA-8270C	0		1
Mestranol	0	ug/L			EPA-8270C	0		1
4,4'-Methylenebis(2-chloroaniline)	0	ug/L			EPA-8270C	0		1
4,4'-Methylenebis[N,N-dimethylaniline]	0	ug/L			EPA-8270C	0		1
Mevinphos	0	ug/L			EPA-8270C	0		1
Mexacarbate	0	ug/L			EPA-8270C	0		1
Mirex	0	ug/L			EPA-8270C	0		1
Monocrotophos	0	ug/L			EPA-8270C	0		1
Naled	0	ug/L			EPA-8270C	0		1
Nicotine	0	ug/L			EPA-8270C	0		1
5-Nitroacenaphthene	0	ug/L			EPA-8270C	0		1
5-Nitro-o-anisidine	0	ug/L			EPA-8270C	0		1
4-Nitrobiphenyl	0	ug/L			EPA-8270C	0		1
Nitrophen	0	ug/L			EPA-8270C	0		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

BCL Sample ID: 1409094-05	Client Sample Name: JPL-GW, MW-3-2, 4/23/2014 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Octamethylpyrophosphoramidate	0	ug/L			EPA-8270C	0		1
4,4'-Oxydianiline	0	ug/L			EPA-8270C	0		1
Phenobarbital	0	ug/L			EPA-8270C	0		1
Phosalone	0	ug/L			EPA-8270C	0		1
Phosmet	0	ug/L			EPA-8270C	0		1
Phosphamidon	0	ug/L			EPA-8270C	0		1
Phthalic anhydride	0	ug/L			EPA-8270C	0		1
Piperonyl sulfoxide	0	ug/L			EPA-8270C	0		1
Propylthiouracil	0	ug/L			EPA-8270C	0		1
Resorcinol	0	ug/L			EPA-8270C	0		1
Strychnine	0	ug/L			EPA-8270C	0		1
Sulfallate	0	ug/L			EPA-8270C	0		1
Terbufos	0	ug/L			EPA-8270C	0		1
Tetrachlorvinphos	0	ug/L			EPA-8270C	0		1
TEPP	0	ug/L			EPA-8270C	0		1
Thiophenol (Benzenethiol)	0	ug/L			EPA-8270C	0		1
Toluene 2,4-diisocyanate	0	ug/L			EPA-8270C	0		1
Trifluralin	0	ug/L			EPA-8270C	0		1
2,4,5-Trimethylaniline	0	ug/L			EPA-8270C	0		1
Trimethyl phosphate	0	ug/L			EPA-8270C	0		1
Tris(2,3-dibromopropyl) phosphate	0	ug/L			EPA-8270C	0		1
Tri-p-tolyl phosphate	0	ug/L			EPA-8270C	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	04/25/14	05/17/14 09:54	VH1	MS-B2	1	BXD2450

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Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

BCL Sample ID: 1409094-05	Client Sample Name: JPL-GW, MW-3-2, 4/23/2014 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Acenaphthylene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Anthracene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Benzo[a]anthracene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Benzo[b]fluoranthene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Benzo[k]fluoranthene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Benzo[a]pyrene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Benzo[g,h,i]perylene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Chrysene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Fluoranthene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Fluorene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Naphthalene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Phenanthrene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Pyrene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Nitrobenzene-d5 (Surrogate)	84.2	%	42 - 130 (LCL - UCL)		EPA-8270C-SIM			1
2-Fluorobiphenyl (Surrogate)	80.9	%	50 - 116 (LCL - UCL)		EPA-8270C-SIM			1
p-Terphenyl-d14 (Surrogate)	94.3	%	43 - 134 (LCL - UCL)		EPA-8270C-SIM			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C-SIM	04/25/14	05/05/14 15:09	MK1	MS-B7	0.990	BXD2481

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Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409094-05		Client Sample Name: JPL-GW, MW-3-2, 4/23/2014 8:40:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	51	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	17	mg/L	0.050	0.020	EPA-200.7	ND		1
Total Recoverable Sodium	20	mg/L	0.50	0.017	EPA-200.7	ND		1
Total Recoverable Potassium	2.6	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	230	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	190	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	16	mg/L	0.50	0.067	EPA-300.0	ND		3
Nitrate as N	0.68	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	23	mg/L	1.0	0.18	EPA-300.0	ND		3
pH	7.62	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	280	mg/L	20	20	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	25	ug/L	8.0	0.90	EPA-314.0	ND	A01	7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-200.7	04/25/14	04/29/14	23:40	JRG	PE-OP2	1	BXD2183	
2	SM-2320B	04/25/14	04/25/14	08:30	RML	MET-1	1	BXD2110	
3	EPA-300.0	04/24/14	04/24/14	03:10	LD1	IC2	1	BXD2022	
4	EPA-150.1	04/25/14	04/25/14	08:30	RML	MET-1	1	BXD2110	
5	EPA-160.1	04/28/14	04/28/14	13:45	FRP	MANUAL	2	BXD2384	
6	EPA-353.2	04/24/14	04/24/14	09:56	TDC	KONE-1	1	BXD2051	
7	EPA-314.0	05/05/14	05/05/14	21:59	OLH	IC6	2	BXE0392	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409094-05	Client Sample Name: JPL-GW, MW-3-2, 4/23/2014 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00071	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	860	ug/L	50	6.5	EPA-200.7	7.2		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	0.16		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/23/14	04/23/14 22:58	OLH	KONE-1	1	BXD2042
2	EPA-200.8	04/28/14	05/01/14 23:28	SRM	PE-EL2	1	BXD2318
3	EPA-200.7	04/25/14	04/29/14 23:40	JRG	PE-OP2	1	BXD2183

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Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409094-06	Client Sample Name: JPL-GW, MW-3-3, 4/23/2014 8:15:00AM, 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		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.13	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409094-06	Client Sample Name: JPL-GW, MW-3-3, 4/23/2014 8:15:00AM, 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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Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409094-06	Client Sample Name: JPL-GW, MW-3-3, 4/23/2014 8:15:00AM, 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		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)	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	04/24/14	04/24/14 13:20	MGC	MS-V5	1	BXD2012

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409094-06	Client Sample Name: JPL-GW, MW-3-3, 4/23/2014 8:15:00AM, 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	04/24/14	04/24/14 13:20	MGC	MS-V5	1	BXD2012

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409094-06		Client Sample Name: JPL-GW, MW-3-3, 4/23/2014 8:15:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	44	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	14	mg/L	0.050	0.020	EPA-200.7	ND		1
Total Recoverable Sodium	41	mg/L	0.50	0.017	EPA-200.7	ND		1
Total Recoverable Potassium	2.5	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	200	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	170	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	34	mg/L	0.50	0.067	EPA-300.0	ND		3
Nitrate as N	2.0	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	22	mg/L	1.0	0.18	EPA-300.0	ND		3
pH	7.71	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	300	mg/L	20	20	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	04/25/14	04/29/14	23:42	JRG	PE-OP2	1	BXD2183
2	SM-2320B	04/25/14	04/25/14	08:36	RML	MET-1	1	BXD2110
3	EPA-300.0	04/24/14	04/24/14	03:25	LD1	IC2	1	BXD2022
4	EPA-150.1	04/25/14	04/25/14	08:36	RML	MET-1	1	BXD2110
5	EPA-160.1	04/28/14	04/28/14	13:45	FRP	MANUAL	2	BXD2384
6	EPA-353.2	04/24/14	04/24/14	09:56	TDC	KONE-1	1	BXD2051
7	EPA-314.0	05/05/14	05/05/14	21:17	OLH	IC6	1	BXE0392

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Tidewater Inc.
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Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409094-06	Client Sample Name: JPL-GW, MW-3-3, 4/23/2014 8:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00074	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Arsenic	3.2	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	3.4	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	520	ug/L	50	6.5	EPA-200.7	7.2		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	0.16		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/23/14	04/23/14 22:58	OLH	KONE-1	1	BXD2042
2	EPA-200.8	04/28/14	05/01/14 23:31	SRM	PE-EL2	1	BXD2318
3	EPA-200.7	04/25/14	04/29/14 23:42	JRG	PE-OP2	1	BXD2183

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Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409094-07	Client Sample Name: JPL-GW, MW-3-1, 4/23/2014 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		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: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409094-07	Client Sample Name: JPL-GW, MW-3-1, 4/23/2014 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
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: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409094-07	Client Sample Name: JPL-GW, MW-3-1, 4/23/2014 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		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)	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	04/24/14	04/24/14 13:43	MGC	MS-V5	1	BXD2012

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Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409094-07	Client Sample Name: JPL-GW, MW-3-1, 4/23/2014 10:40:00AM, Blaine Tech
----------------------------------	--

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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/24/14	04/24/14 13:43	MGC	MS-V5	1	BXD2012

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Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409094-07		Client Sample Name: JPL-GW, MW-3-1, 4/23/2014 10:40:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	58	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	19	mg/L	0.050	0.020	EPA-200.7	ND		1
Total Recoverable Sodium	26	mg/L	0.50	0.017	EPA-200.7	ND		1
Total Recoverable Potassium	3.1	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	260	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	210	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	19	mg/L	0.50	0.067	EPA-300.0	ND		3
Nitrate as N	0.063	mg/L	0.10	0.025	EPA-300.0	ND	J	3
Sulfate	33	mg/L	1.0	0.18	EPA-300.0	ND		3
pH	7.56	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	290	mg/L	20	20	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	04/25/14	04/29/14	23:45	JRG	PE-OP2	1	BXD2183
2	SM-2320B	04/25/14	04/25/14	08:42	RML	MET-1	1	BXD2110
3	EPA-300.0	04/24/14	04/24/14	03:40	LD1	IC2	1	BXD2022
4	EPA-150.1	04/25/14	04/25/14	08:42	RML	MET-1	1	BXD2110
5	EPA-160.1	04/28/14	04/28/14	13:45	FRP	MANUAL	2	BXD2384
6	EPA-353.2	04/24/14	04/24/14	09:56	TDC	KONE-1	1	BXD2051
7	EPA-314.0	05/05/14	05/05/14	21:31	OLH	IC6	1	BXE0392

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409094-07	Client Sample Name: JPL-GW, MW-3-1, 4/23/2014 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 Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	800	ug/L	50	6.5	EPA-200.7	7.2		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	0.16		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/23/14	04/23/14 23:05	OLH	KONE-1	1	BXD2042
2	EPA-200.8	04/28/14	05/01/14 23:34	SRM	PE-EL2	1	BXD2318
3	EPA-200.7	04/25/14	04/29/14 23:45	JRG	PE-OP2	1	BXD2183

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Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409094-08	Client Sample Name: JPL-GW, MW-25-5, 4/23/2014 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
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409094-08	Client Sample Name: JPL-GW, MW-25-5, 4/23/2014 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
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	0.50	ug/L	1.0	0.38	EPA-524.2	ND	J	1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409094-08	Client Sample Name: JPL-GW, MW-25-5, 4/23/2014 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		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)	92.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/24/14	04/24/14 14:05	MGC	MS-V5	1	BXD2012

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Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409094-08	Client Sample Name: JPL-GW, MW-25-5, 4/23/2014 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	04/24/14	04/24/14 14:05	MGC	MS-V5	1	BXD2012

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Tidewater Inc.
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Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409094-08		Client Sample Name: JPL-GW, MW-25-5, 4/23/2014 12:00:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	5.3	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	4.4	mg/L	0.050	0.020	EPA-200.7	0.029		2
Total Recoverable Sodium	68	mg/L	0.50	0.017	EPA-200.7	ND		1
Total Recoverable Potassium	2.1	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	67	mg/L	5.0	5.0	SM-2320B	ND		3
Carbonate	18	mg/L	2.5	2.5	SM-2320B	ND		3
Total Alkalinity as CaCO3	86	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	14	mg/L	0.50	0.067	EPA-300.0	ND		4
Nitrate as N	ND	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	53	mg/L	1.0	0.18	EPA-300.0	ND		4
pH	9.43	pH Units	0.05	0.05	EPA-150.1		S05	5
Total Dissolved Solids @ 180 C	210	mg/L	20	20	EPA-160.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		7
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		8

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-200.7	04/25/14	04/29/14 22:24	JRG	PE-OP2	1	BXD2184
2	EPA-200.7	04/25/14	04/30/14 16:01	JRG	PE-OP2	1	BXD2184
3	SM-2320B	04/25/14	04/25/14 08:48	RML	MET-1	1	BXD2110
4	EPA-300.0	04/24/14	04/24/14 03:55	LD1	IC2	1	BXD2022
5	EPA-150.1	04/25/14	04/25/14 08:48	RML	MET-1	1	BXD2110
6	EPA-160.1	04/28/14	04/28/14 13:45	FRP	MANUAL	2	BXD2384
7	EPA-353.2	04/24/14	04/24/14 09:56	TDC	KONE-1	1	BXD2053
8	EPA-314.0	05/05/14	05/05/14 21:45	OLH	IC6	1	BXE0392

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409094-08	Client Sample Name: JPL-GW, MW-25-5, 4/23/2014 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 Arsenic	1.7	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	ND	ug/L	50	6.5	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	0.16		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/23/14	04/23/14 23:05	OLH	KONE-1	1	BXD2042
2	EPA-200.8	04/28/14	05/01/14 23:37	SRM	PE-EL2	1	BXD2318
3	EPA-200.7	04/25/14	04/29/14 22:24	JRG	PE-OP2	1	BXD2184

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Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409094-09	Client Sample Name: JPL-GW, MW-25-4, 4/23/2014 12:40:00PM, 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		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: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409094-09	Client Sample Name: JPL-GW, MW-25-4, 4/23/2014 12:40:00PM, 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
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: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409094-09	Client Sample Name: JPL-GW, MW-25-4, 4/23/2014 12:40:00PM, 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		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)	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	04/24/14	04/24/14 14:28	MGC	MS-V5	1	BXD2012

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409094-09	Client Sample Name: JPL-GW, MW-25-4, 4/23/2014 12:40:00PM, 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	04/24/14	04/24/14 14:28	MGC	MS-V5	1	BXD2012

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409094-09		Client Sample Name: JPL-GW, MW-25-4, 4/23/2014 12:40:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	87	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	25	mg/L	0.050	0.020	EPA-200.7	0.029		2
Total Recoverable Sodium	51	mg/L	0.50	0.017	EPA-200.7	ND		1
Total Recoverable Potassium	2.6	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	280	mg/L	5.0	5.0	SM-2320B	ND		3
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		3
Total Alkalinity as CaCO3	230	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	56	mg/L	0.50	0.067	EPA-300.0	ND		4
Nitrate as N	6.1	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	82	mg/L	1.0	0.18	EPA-300.0	ND		4
pH	7.88	pH Units	0.05	0.05	EPA-150.1		S05	5
Total Dissolved Solids @ 180 C	490	mg/L	33	33	EPA-160.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		7
Perchlorate	8.5	ug/L	4.0	0.45	EPA-314.0	ND		8

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-200.7	04/25/14	04/29/14 22:27	JRG	PE-OP2	1	BXD2184
2	EPA-200.7	04/25/14	04/30/14 16:13	JRG	PE-OP2	1	BXD2184
3	SM-2320B	04/25/14	04/25/14 08:54	RML	MET-1	1	BXD2110
4	EPA-300.0	04/24/14	04/24/14 04:11	LD1	IC2	1	BXD2022
5	EPA-150.1	04/25/14	04/25/14 08:54	RML	MET-1	1	BXD2110
6	EPA-160.1	04/28/14	04/28/14 13:45	FRP	MANUAL	3.333	BXD2384
7	EPA-353.2	04/24/14	04/24/14 09:56	TDC	KONE-1	1	BXD2053
8	EPA-314.0	05/05/14	05/06/14 01:38	LD1	IC6	1	BXE0512

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409094-09	Client Sample Name: JPL-GW, MW-25-4, 4/23/2014 12:40:00PM, Blaine Tech							
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 Arsenic	0.81	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	1.4	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	160	ug/L	50	6.5	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	0.16		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/23/14	04/23/14 23:05	OLH	KONE-1	1	BXD2042
2	EPA-200.8	04/28/14	05/01/14 23:41	SRM	PE-EL2	1	BXD2318
3	EPA-200.7	04/25/14	04/29/14 22:27	JRG	PE-OP2	1	BXD2184

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409094-10	Client Sample Name: JPL-GW, MW-25-3, 4/23/2014 1:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	1.2	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409094-10	Client Sample Name: JPL-GW, MW-25-3, 4/23/2014 1:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.91	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.10	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409094-10	Client Sample Name: JPL-GW, MW-25-3, 4/23/2014 1:20:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.0	%	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	04/24/14	04/24/14 14:51	MGC	MS-V5	1	BXD2012

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409094-10	Client Sample Name: JPL-GW, MW-25-3, 4/23/2014 1:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/24/14	04/24/14 14:51	MGC	MS-V5	1	BXD2012

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409094-10		Client Sample Name: JPL-GW, MW-25-3, 4/23/2014 1:20:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	80	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	27	mg/L	0.050	0.020	EPA-200.7	0.029		2
Total Recoverable Sodium	35	mg/L	0.50	0.017	EPA-200.7	ND		1
Total Recoverable Potassium	2.8	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	260	mg/L	5.0	5.0	SM-2320B	ND		3
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		3
Total Alkalinity as CaCO3	210	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	47	mg/L	0.50	0.067	EPA-300.0	ND		4
Nitrate as N	7.9	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	74	mg/L	1.0	0.18	EPA-300.0	ND		4
pH	7.88	pH Units	0.05	0.05	EPA-150.1		S05	5
Total Dissolved Solids @ 180 C	460	mg/L	33	33	EPA-160.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		7
Perchlorate	11	ug/L	4.0	0.45	EPA-314.0	ND		8

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	04/25/14	04/29/14	21:53	JRG	PE-OP2	1	BXD2184
2	EPA-200.7	04/25/14	04/30/14	15:45	JRG	PE-OP2	1	BXD2184
3	SM-2320B	04/25/14	04/25/14	09:00	RML	MET-1	1	BXD2110
4	EPA-300.0	04/24/14	04/24/14	04:56	LD1	IC2	1	BXD2022
5	EPA-150.1	04/25/14	04/25/14	09:00	RML	MET-1	1	BXD2110
6	EPA-160.1	04/28/14	04/28/14	13:45	FRP	MANUAL	3.333	BXD2384
7	EPA-353.2	04/24/14	04/24/14	10:00	TDC	KONE-1	1	BXD2053
8	EPA-314.0	05/05/14	05/06/14	00:42	OLH	IC6	1	BXE0512

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409094-10	Client Sample Name: JPL-GW, MW-25-3, 4/23/2014 1:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0031	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Arsenic	1.0	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	2.7	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	ND	ug/L	50	6.5	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	0.16		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/23/14	04/23/14 23:05	OLH	KONE-1	1	BXD2043
2	EPA-200.8	04/28/14	05/01/14 03:15	EAR	PE-EL2	1	BXD2318
3	EPA-200.7	04/25/14	04/29/14 21:53	JRG	PE-OP2	1	BXD2184

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409094-11	Client Sample Name: JPL-GW, MW-25-2, 4/23/2014 1:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.13	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409094-11	Client Sample Name: JPL-GW, MW-25-2, 4/23/2014 1:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.28	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409094-11	Client Sample Name: JPL-GW, MW-25-2, 4/23/2014 1:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	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	04/24/14	04/24/14 15:13	MGC	MS-V5	1	BXD2012

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Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409094-11	Client Sample Name: JPL-GW, MW-25-2, 4/23/2014 1:50:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/24/14	04/24/14 15:13	MGC	MS-V5	1	BXD2012

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Tidewater Inc.
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Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409094-11		Client Sample Name: JPL-GW, MW-25-2, 4/23/2014 1:50:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	78	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	28	mg/L	0.050	0.020	EPA-200.7	0.029		2
Total Recoverable Sodium	32	mg/L	0.50	0.017	EPA-200.7	ND		1
Total Recoverable Potassium	2.6	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	240	mg/L	5.0	5.0	SM-2320B	ND		3
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		3
Total Alkalinity as CaCO3	200	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	47	mg/L	0.50	0.067	EPA-300.0	ND		4
Nitrate as N	8.3	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	78	mg/L	1.0	0.18	EPA-300.0	ND		4
pH	7.89	pH Units	0.05	0.05	EPA-150.1		S05	5
Total Dissolved Solids @ 180 C	430	mg/L	33	33	EPA-160.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		7
Perchlorate	14	ug/L	4.0	0.45	EPA-314.0	ND		8

Run #	Method	Prep Date	Run		Instrument	Dilution	QC	
			Date/Time	Analyst			Batch ID	
1	EPA-200.7	04/25/14	04/29/14 22:30	JRG	PE-OP2	1	BXD2184	
2	EPA-200.7	04/25/14	04/30/14 16:16	JRG	PE-OP2	1	BXD2184	
3	SM-2320B	04/25/14	04/25/14 09:06	RML	MET-1	1	BXD2110	
4	EPA-300.0	04/24/14	04/24/14 17:32	OLH	IC2	1	BXD2024	
5	EPA-150.1	04/25/14	04/25/14 09:06	RML	MET-1	1	BXD2110	
6	EPA-160.1	04/28/14	04/28/14 13:45	FRP	MANUAL	3.333	BXD2384	
7	EPA-353.2	04/24/14	04/24/14 10:00	TDC	KONE-1	1	BXD2053	
8	EPA-314.0	05/05/14	05/06/14 01:52	LD1	IC6	1	BXE0512	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409094-11	Client Sample Name: JPL-GW, MW-25-2, 4/23/2014 1:50:00PM, 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 Arsenic	0.82	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	2.8	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	280	ug/L	50	6.5	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	0.16		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/23/14	04/23/14 23:05	OLH	KONE-1	1	BXD2043
2	EPA-200.8	04/28/14	05/01/14 23:44	SRM	PE-EL2	1	BXD2318
3	EPA-200.7	04/25/14	04/29/14 22:30	JRG	PE-OP2	1	BXD2184

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Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409094-12	Client Sample Name: JPL-GW, MW-25-1, 4/23/2014 2:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.58	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: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409094-12	Client Sample Name: JPL-GW, MW-25-1, 4/23/2014 2:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	0.24	ug/L	0.50	0.11	EPA-524.2	ND	J	1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	2.5	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409094-12	Client Sample Name: JPL-GW, MW-25-1, 4/23/2014 2:20:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	89.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/24/14	04/24/14 15:36	MGC	MS-V5	1	BXD2012

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Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409094-12	Client Sample Name: JPL-GW, MW-25-1, 4/23/2014 2:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/24/14	04/24/14 15:36	MGC	MS-V5	1	BXD2012

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Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409094-12		Client Sample Name: JPL-GW, MW-25-1, 4/23/2014 2:20:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	98	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	34	mg/L	0.050	0.020	EPA-200.7	0.029		2
Total Recoverable Sodium	37	mg/L	0.50	0.017	EPA-200.7	ND		1
Total Recoverable Potassium	3.1	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	240	mg/L	5.0	5.0	SM-2320B	ND		3
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		3
Total Alkalinity as CaCO3	190	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	65	mg/L	0.50	0.067	EPA-300.0	ND		4
Nitrate as N	9.0	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	130	mg/L	1.0	0.18	EPA-300.0	ND		4
pH	7.40	pH Units	0.05	0.05	EPA-150.1		S05	5
Total Dissolved Solids @ 180 C	480	mg/L	33	33	EPA-160.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		7
Perchlorate	11	ug/L	4.0	0.45	EPA-314.0	ND		8

Run #	Method	Prep Date	Run		Instrument	Dilution	QC	
			Date/Time	Analyst			Batch ID	
1	EPA-200.7	04/25/14	04/29/14 22:33	JRG	PE-OP2	1	BXD2184	
2	EPA-200.7	04/25/14	04/30/14 16:19	JRG	PE-OP2	1	BXD2184	
3	SM-2320B	04/25/14	04/25/14 09:29	RML	MET-1	1	BXD2111	
4	EPA-300.0	04/24/14	04/24/14 06:11	LD1	IC2	1	BXD2024	
5	EPA-150.1	04/25/14	04/25/14 09:29	RML	MET-1	1	BXD2111	
6	EPA-160.1	04/28/14	04/28/14 13:45	FRP	MANUAL	3.333	BXD2384	
7	EPA-353.2	04/24/14	04/24/14 10:00	TDC	KONE-1	1	BXD2053	
8	EPA-314.0	05/05/14	05/06/14 02:05	LD1	IC6	1	BXE0512	

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Tidewater Inc.
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Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409094-12	Client Sample Name: JPL-GW, MW-25-1, 4/23/2014 2:20:00PM, 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 Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	1.5	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	1200	ug/L	50	6.5	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/23/14	04/23/14 23:08	OLH	KONE-1	1	BXD2043
2	EPA-200.8	04/29/14	05/02/14 09:17	SRM	PE-EL2	1	BXD2429
3	EPA-200.7	04/25/14	04/29/14 22:33	JRG	PE-OP2	1	BXD2184

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Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2012						
Benzene	BXD2012-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXD2012-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXD2012-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXD2012-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXD2012-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXD2012-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXD2012-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXD2012-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXD2012-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXD2012-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXD2012-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXD2012-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXD2012-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXD2012-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXD2012-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXD2012-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BXD2012-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXD2012-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXD2012-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXD2012-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXD2012-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXD2012-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXD2012-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXD2012-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXD2012-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXD2012-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXD2012-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXD2012-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXD2012-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXD2012-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXD2012-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXD2012-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXD2012-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXD2012-BLK1	ND	ug/L	0.50	0.14	

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Tidewater Inc.
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Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2012						
trans-1,3-Dichloropropene	BXD2012-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXD2012-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXD2012-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXD2012-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXD2012-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXD2012-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXD2012-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXD2012-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXD2012-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXD2012-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXD2012-BLK1	ND	ug/L	0.50	0.18	
1,1,1,2,2-Tetrachloroethane	BXD2012-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethane	BXD2012-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXD2012-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXD2012-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXD2012-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BXD2012-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXD2012-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXD2012-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXD2012-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXD2012-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXD2012-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXD2012-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXD2012-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXD2012-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXD2012-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXD2012-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXD2012-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXD2012-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXD2012-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXD2012-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXD2012-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXD2012-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXD2012-BLK1	ND	ug/L	4.0	0.97	

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Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2012						
Ethyl t-butyl ether	BXD2012-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXD2012-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXD2012-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXD2012-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXD2012-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXD2012-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXD2012-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXD2012-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXD2012-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXD2012-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXD2012-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXD2012-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXD2012-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BXD2012-BLK1	106	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BXD2012-BLK1	98.2	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BXD2012-BLK1	92.1	%	80 - 120 (LCL - UCL)		

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Tidewater Inc.
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Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXD2012										
Benzene	BXD2012-BS1	LCS	22.700	25.000	ug/L	90.8		70 - 130		
Bromodichloromethane	BXD2012-BS1	LCS	32.400	25.000	ug/L	130		70 - 130		
Chlorobenzene	BXD2012-BS1	LCS	26.040	25.000	ug/L	104		70 - 130		
Chloroethane	BXD2012-BS1	LCS	26.090	25.000	ug/L	104		70 - 130		
1,4-Dichlorobenzene	BXD2012-BS1	LCS	29.680	25.000	ug/L	119		70 - 130		
1,1-Dichloroethane	BXD2012-BS1	LCS	25.250	25.000	ug/L	101		70 - 130		
1,1-Dichloroethene	BXD2012-BS1	LCS	26.500	25.000	ug/L	106		70 - 130		
Toluene	BXD2012-BS1	LCS	25.320	25.000	ug/L	101		70 - 130		
Trichloroethene	BXD2012-BS1	LCS	28.690	25.000	ug/L	115		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXD2012-BS1	LCS	10.750	10.000	ug/L	108		75 - 125		
Toluene-d8 (Surrogate)	BXD2012-BS1	LCS	10.210	10.000	ug/L	102		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXD2012-BS1	LCS	11.540	10.000	ug/L	115		80 - 120		

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Tidewater Inc.
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Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXD2012		Used client sample: Y - Description: MW-25-3, 04/23/2014 13:20								
Benzene	MS	1409094-10	ND	23.450	25.000	ug/L		93.8		70 - 130
	MSD	1409094-10	ND	23.310	25.000	ug/L	0.6	93.2	20	70 - 130
Bromodichloromethane	MS	1409094-10	ND	30.920	25.000	ug/L		124		70 - 130
	MSD	1409094-10	ND	32.000	25.000	ug/L	3.4	128	20	70 - 130
Chlorobenzene	MS	1409094-10	ND	26.180	25.000	ug/L		105		70 - 130
	MSD	1409094-10	ND	26.090	25.000	ug/L	0.3	104	20	70 - 130
Chloroethane	MS	1409094-10	ND	26.010	25.000	ug/L		104		70 - 130
	MSD	1409094-10	ND	26.340	25.000	ug/L	1.3	105	20	70 - 130
1,4-Dichlorobenzene	MS	1409094-10	ND	30.160	25.000	ug/L		121		70 - 130
	MSD	1409094-10	ND	29.750	25.000	ug/L	1.4	119	20	70 - 130
1,1-Dichloroethane	MS	1409094-10	ND	25.450	25.000	ug/L		102		70 - 130
	MSD	1409094-10	ND	26.140	25.000	ug/L	2.7	105	20	70 - 130
1,1-Dichloroethene	MS	1409094-10	ND	26.640	25.000	ug/L		107		70 - 130
	MSD	1409094-10	ND	26.470	25.000	ug/L	0.6	106	20	70 - 130
Toluene	MS	1409094-10	ND	24.090	25.000	ug/L		96.4		70 - 130
	MSD	1409094-10	ND	25.350	25.000	ug/L	5.1	101	20	70 - 130
Trichloroethene	MS	1409094-10	0.10000	26.910	25.000	ug/L		107		70 - 130
	MSD	1409094-10	0.10000	27.140	25.000	ug/L	0.9	108	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1409094-10	ND	10.840	10.000	ug/L		108		75 - 125
	MSD	1409094-10	ND	10.650	10.000	ug/L	1.8	106		75 - 125
Toluene-d8 (Surrogate)	MS	1409094-10	ND	9.9700	10.000	ug/L		99.7		80 - 120
	MSD	1409094-10	ND	10.260	10.000	ug/L	2.9	103		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1409094-10	ND	11.430	10.000	ug/L		114		80 - 120
	MSD	1409094-10	ND	11.150	10.000	ug/L	2.5	112		80 - 120

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2012						
Chloroacetonitrile	BXD2012-BLK1	0	ug/L			
1-Chlorobutane	BXD2012-BLK1	0	ug/L			
1,1-Dichloropropanone	BXD2012-BLK1	0	ug/L			
Methyl acrylate	BXD2012-BLK1	0	ug/L			
Nitrobenzene	BXD2012-BLK1	0	ug/L			
2-Nitropropane	BXD2012-BLK1	0	ug/L			

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Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2450						
Acenaphthene	BXD2450-BLK1	ND	ug/L	2.0	0.24	
Acenaphthylene	BXD2450-BLK1	ND	ug/L	2.0	0.28	
Aldrin	BXD2450-BLK1	ND	ug/L	2.0	0.35	
Aniline	BXD2450-BLK1	ND	ug/L	5.0	0.69	
Anthracene	BXD2450-BLK1	ND	ug/L	2.0	0.30	
Benzidine	BXD2450-BLK1	ND	ug/L	20	7.1	
Benzo[a]anthracene	BXD2450-BLK1	ND	ug/L	2.0	0.38	
Benzo[b]fluoranthene	BXD2450-BLK1	ND	ug/L	2.0	0.41	
Benzo[k]fluoranthene	BXD2450-BLK1	ND	ug/L	2.0	0.31	
Benzo[a]pyrene	BXD2450-BLK1	ND	ug/L	2.0	0.20	
Benzo[g,h,i]perylene	BXD2450-BLK1	ND	ug/L	2.0	0.22	
Benzoic acid	BXD2450-BLK1	ND	ug/L	10	5.8	
Benzyl alcohol	BXD2450-BLK1	ND	ug/L	2.0	0.34	
Benzyl butyl phthalate	BXD2450-BLK1	ND	ug/L	2.0	0.47	
alpha-BHC	BXD2450-BLK1	ND	ug/L	2.0	0.27	
beta-BHC	BXD2450-BLK1	ND	ug/L	2.0	0.27	
delta-BHC	BXD2450-BLK1	ND	ug/L	2.0	0.30	
gamma-BHC (Lindane)	BXD2450-BLK1	ND	ug/L	2.0	0.22	
bis(2-Chloroethoxy)methane	BXD2450-BLK1	ND	ug/L	2.0	0.27	
bis(2-Chloroethyl) ether	BXD2450-BLK1	ND	ug/L	2.0	0.68	
bis(2-Chloroisopropyl)ether	BXD2450-BLK1	ND	ug/L	2.0	0.30	
bis(2-Ethylhexyl)phthalate	BXD2450-BLK1	ND	ug/L	4.0	3.0	
4-Bromophenyl phenyl ether	BXD2450-BLK1	ND	ug/L	2.0	0.23	
4-Chloroaniline	BXD2450-BLK1	ND	ug/L	2.0	0.69	
2-Chloronaphthalene	BXD2450-BLK1	ND	ug/L	2.0	0.34	
4-Chlorophenyl phenyl ether	BXD2450-BLK1	ND	ug/L	2.0	0.23	
Chrysene	BXD2450-BLK1	ND	ug/L	2.0	0.63	
4,4'-DDD	BXD2450-BLK1	ND	ug/L	2.0	0.48	
4,4'-DDE	BXD2450-BLK1	ND	ug/L	3.0	0.41	
4,4'-DDT	BXD2450-BLK1	ND	ug/L	2.0	0.43	
Dibenzo[a,h]anthracene	BXD2450-BLK1	ND	ug/L	3.0	0.26	
Dibenzofuran	BXD2450-BLK1	ND	ug/L	2.0	0.21	
1,2-Dichlorobenzene	BXD2450-BLK1	ND	ug/L	2.0	0.37	
1,3-Dichlorobenzene	BXD2450-BLK1	ND	ug/L	2.0	0.35	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2450						
1,4-Dichlorobenzene	BXD2450-BLK1	ND	ug/L	2.0	0.31	
3,3-Dichlorobenzidine	BXD2450-BLK1	ND	ug/L	10	8.2	
Dieldrin	BXD2450-BLK1	ND	ug/L	3.0	0.41	
Diethyl phthalate	BXD2450-BLK1	ND	ug/L	2.0	0.33	
Dimethyl phthalate	BXD2450-BLK1	ND	ug/L	2.0	0.39	
Di-n-butyl phthalate	BXD2450-BLK1	ND	ug/L	2.0	0.39	
2,4-Dinitrotoluene	BXD2450-BLK1	ND	ug/L	2.0	0.26	
2,6-Dinitrotoluene	BXD2450-BLK1	ND	ug/L	2.0	0.41	
Di-n-octyl phthalate	BXD2450-BLK1	ND	ug/L	2.0	0.46	
1,2-Diphenylhydrazine	BXD2450-BLK1	ND	ug/L	2.0	0.34	
Endosulfan I	BXD2450-BLK1	ND	ug/L	10	1.7	
Endosulfan II	BXD2450-BLK1	ND	ug/L	10	1.2	
Endosulfan sulfate	BXD2450-BLK1	ND	ug/L	3.0	0.58	
Endrin	BXD2450-BLK1	ND	ug/L	2.0	1.1	
Endrin aldehyde	BXD2450-BLK1	ND	ug/L	10	0.52	
Fluoranthene	BXD2450-BLK1	ND	ug/L	2.0	0.20	
Fluorene	BXD2450-BLK1	ND	ug/L	2.0	0.28	
Heptachlor	BXD2450-BLK1	ND	ug/L	2.0	0.32	
Heptachlor epoxide	BXD2450-BLK1	ND	ug/L	2.0	0.27	
Hexachlorobenzene	BXD2450-BLK1	ND	ug/L	2.0	0.20	
Hexachlorobutadiene	BXD2450-BLK1	ND	ug/L	2.0	0.24	
Hexachlorocyclopentadiene	BXD2450-BLK1	ND	ug/L	2.0	0.30	
Hexachloroethane	BXD2450-BLK1	ND	ug/L	2.0	0.32	
Indeno[1,2,3-cd]pyrene	BXD2450-BLK1	ND	ug/L	2.0	0.26	
Isophorone	BXD2450-BLK1	ND	ug/L	2.0	0.31	
2-Methylnaphthalene	BXD2450-BLK1	ND	ug/L	2.0	0.28	
Naphthalene	BXD2450-BLK1	ND	ug/L	2.0	0.21	
2-Naphthylamine	BXD2450-BLK1	ND	ug/L	20	4.8	
2-Nitroaniline	BXD2450-BLK1	ND	ug/L	2.0	0.33	
3-Nitroaniline	BXD2450-BLK1	ND	ug/L	2.0	0.66	
4-Nitroaniline	BXD2450-BLK1	ND	ug/L	5.0	0.87	
Nitrobenzene	BXD2450-BLK1	ND	ug/L	2.0	0.26	
N-Nitrosodimethylamine	BXD2450-BLK1	ND	ug/L	2.0	0.61	
N-Nitrosodi-N-propylamine	BXD2450-BLK1	ND	ug/L	2.0	1.3	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2450						
N-Nitrosodiphenylamine	BXD2450-BLK1	ND	ug/L	2.0	0.44	
Phenanthrene	BXD2450-BLK1	ND	ug/L	2.0	0.20	
Pyrene	BXD2450-BLK1	ND	ug/L	2.0	0.26	
1,2,4-Trichlorobenzene	BXD2450-BLK1	ND	ug/L	2.0	0.27	
4-Chloro-3-methylphenol	BXD2450-BLK1	ND	ug/L	5.0	0.40	
2-Chlorophenol	BXD2450-BLK1	ND	ug/L	2.0	0.37	
2,4-Dichlorophenol	BXD2450-BLK1	ND	ug/L	2.0	0.43	
2,4-Dimethylphenol	BXD2450-BLK1	ND	ug/L	2.0	0.20	
4,6-Dinitro-2-methylphenol	BXD2450-BLK1	ND	ug/L	10	0.34	
2,4-Dinitrophenol	BXD2450-BLK1	ND	ug/L	10	0.20	
2-Methylphenol	BXD2450-BLK1	ND	ug/L	2.0	1.0	
3- & 4-Methylphenol	BXD2450-BLK1	ND	ug/L	2.0	1.6	
Total Methylphenol	BXD2450-BLK1	ND	ug/L	4.0	2.6	
2-Nitrophenol	BXD2450-BLK1	ND	ug/L	2.0	0.28	
4-Nitrophenol	BXD2450-BLK1	ND	ug/L	2.0	0.73	
Pentachlorophenol	BXD2450-BLK1	ND	ug/L	10	0.79	
Phenol	BXD2450-BLK1	ND	ug/L	2.0	0.20	
2,4,5-Trichlorophenol	BXD2450-BLK1	ND	ug/L	5.0	0.31	
2,4,6-Trichlorophenol	BXD2450-BLK1	ND	ug/L	5.0	0.60	
Acetophenone	BXD2450-BLK1	ND	ug/L	10	3.0	
2-Acetylaminofluorene	BXD2450-BLK1	ND	ug/L	10	0.38	
Acrolein, dimethyl acetal	BXD2450-BLK1	ND	ug/L	40	7.7	
4-Aminobiphenyl	BXD2450-BLK1	ND	ug/L	20	5.2	
Aramite	BXD2450-BLK1	ND	ug/L	10	2.3	
Benefin	BXD2450-BLK1	ND	ug/L	10	0.88	
Carbazole	BXD2450-BLK1	ND	ug/L	2.0	0.20	
cis-Chlordane	BXD2450-BLK1	ND	ug/L	5.0	0.30	
trans-Chlordane	BXD2450-BLK1	ND	ug/L	5.0	0.40	
Chlorobenzilate	BXD2450-BLK1	ND	ug/L	10	0.29	
1-Chloronaphthalene	BXD2450-BLK1	ND	ug/L	10	0.28	
cis-Diallate	BXD2450-BLK1	ND	ug/L	5.0	0.21	
trans-Diallate	BXD2450-BLK1	ND	ug/L	5.0	0.22	
Diallate	BXD2450-BLK1	ND	ug/L	10	0.42	
2,6-Dichlorophenol	BXD2450-BLK1	ND	ug/L	10	1.3	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2450						
Dimethoate	BXD2450-BLK1	ND	ug/L	20	0.46	
p-(Dimethylamino)azobenzene	BXD2450-BLK1	ND	ug/L	10	0.54	
7,12-Dimethylbenz[a]anthracene	BXD2450-BLK1	ND	ug/L	10	0.41	
3,3'-Dimethylbenzidine	BXD2450-BLK1	ND	ug/L	20	5.4	
a,a-Dimethylphenethylamine	BXD2450-BLK1	ND	ug/L	20	2.5	
Dimethyl sulfoxide (DMSO)	BXD2450-BLK1	ND	ug/L	10	1.0	
1,3-Dinitrobenzene	BXD2450-BLK1	ND	ug/L	10	0.23	
Dinoseb	BXD2450-BLK1	ND	ug/L	10	0.61	
Diphenylamine	BXD2450-BLK1	ND	ug/L	10	0.20	
Disulfoton	BXD2450-BLK1	ND	ug/L	10	0.44	
Ethyl methacrylate	BXD2450-BLK1	ND	ug/L	10	0.19	
Ethyl methanesulfonate	BXD2450-BLK1	ND	ug/L	10	0.26	
Ethyl Parathion	BXD2450-BLK1	ND	ug/L	10	0.31	
Famphur	BXD2450-BLK1	ND	ug/L	20	8.3	
Hexachlorophene	BXD2450-BLK1	ND	ug/L	200	35	
Hexachloropropene	BXD2450-BLK1	ND	ug/L	20	0.46	
Isodrin	BXD2450-BLK1	ND	ug/L	10	0.31	
cis-Isosafrole	BXD2450-BLK1	ND	ug/L	5.0	0.41	
trans-Isosafrole	BXD2450-BLK1	ND	ug/L	5.0	0.36	
Isosafrole	BXD2450-BLK1	ND	ug/L	10	0.76	
Kepone	BXD2450-BLK1	ND	ug/L	20	1.5	
Methapyrilene	BXD2450-BLK1	ND	ug/L	10	1.5	
Methoxychlor	BXD2450-BLK1	ND	ug/L	10	0.40	
3-Methylcholanthrene	BXD2450-BLK1	ND	ug/L	10	0.56	
Methyl methacrylate	BXD2450-BLK1	ND	ug/L	40	22	
Methyl methanesulfonate	BXD2450-BLK1	ND	ug/L	10	0.42	
1-Methylnaphthalene	BXD2450-BLK1	ND	ug/L	10	0.41	
Methyl parathion	BXD2450-BLK1	ND	ug/L	10	0.32	
N-Methyl-2-pyrrolidinone	BXD2450-BLK1	ND	ug/L	10	1.6	
1,4-Naphthoquinone	BXD2450-BLK1	ND	ug/L	20	2.1	
1-Naphthylamine	BXD2450-BLK1	ND	ug/L	20	5.3	
5-Nitro-o-toluidine	BXD2450-BLK1	ND	ug/L	10	0.44	
4-Nitroquinoline 1-oxide	BXD2450-BLK1	ND	ug/L	20	12	
N-Nitrosodibutylamine	BXD2450-BLK1	ND	ug/L	10	0.41	

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Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2450						
N-Nitrosodiethylamine	BXD2450-BLK1	ND	ug/L	10	0.43	
N-Nitrosomethylethylamine	BXD2450-BLK1	ND	ug/L	10	0.37	
N-Nitrosomorpholine	BXD2450-BLK1	ND	ug/L	10	0.35	
N-Nitrosopiperidine	BXD2450-BLK1	ND	ug/L	10	0.44	
N-Nitrosopyrrolidine	BXD2450-BLK1	ND	ug/L	10	0.44	
Pentachlorobenzene	BXD2450-BLK1	ND	ug/L	10	0.25	
Pentachloroethane	BXD2450-BLK1	ND	ug/L	20	1.0	
Pentachloronitrobenzene	BXD2450-BLK1	ND	ug/L	10	0.30	
Phenacetin	BXD2450-BLK1	ND	ug/L	10	0.20	
1,4-Phenylenediamine	BXD2450-BLK1	ND	ug/L	20	2.2	
Phorate	BXD2450-BLK1	ND	ug/L	10	0.34	
2-Picoline	BXD2450-BLK1	ND	ug/L	10	0.23	
PCB-1262	BXD2450-BLK1	ND	ug/L	50	25	
PCB-1260	BXD2450-BLK1	ND	ug/L	50	25	
PCB-1254	BXD2450-BLK1	ND	ug/L	50	25	
PCB-1248	BXD2450-BLK1	ND	ug/L	50	25	
PCB-1242	BXD2450-BLK1	ND	ug/L	50	25	
PCB-1232	BXD2450-BLK1	ND	ug/L	50	25	
PCB-1221	BXD2450-BLK1	ND	ug/L	50	25	
PCB-1016	BXD2450-BLK1	ND	ug/L	50	25	
PCB-1268	BXD2450-BLK1	ND	ug/L	50	25	
Total PCB's (Summation)	BXD2450-BLK1	ND	ug/L	50	25	
Prometryn	BXD2450-BLK1	ND	ug/L	10	1.7	
Pronamide	BXD2450-BLK1	ND	ug/L	10	0.29	
Propyleneglycol monomethyl ether acetate	BXD2450-BLK1	ND	ug/L	10	4.2	
Prowl	BXD2450-BLK1	ND	ug/L	10	0.83	
Pyridine	BXD2450-BLK1	ND	ug/L	10	0.27	
Safrole	BXD2450-BLK1	ND	ug/L	10	0.33	
Sulfotep	BXD2450-BLK1	ND	ug/L	10	0.43	
1,2,4,5-Tetrachlorobenzene	BXD2450-BLK1	ND	ug/L	10	0.39	
2,3,4,5-Tetrachlorophenol	BXD2450-BLK1	ND	ug/L	10	5.0	
2,3,4,6-Tetrachlorophenol	BXD2450-BLK1	ND	ug/L	10	4.7	
Thionazin	BXD2450-BLK1	ND	ug/L	10	0.21	
2-Toluidine	BXD2450-BLK1	ND	ug/L	10	0.49	

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Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2450						
Toxaphene	BXD2450-BLK1	ND	ug/L	100	50	
o,o,o-Triethylphosphorothioate	BXD2450-BLK1	ND	ug/L	10	0.42	
1,3,5-Trinitrobenzene	BXD2450-BLK1	ND	ug/L	10	0.30	
Tris(hydroxymethyl)nitromethane	BXD2450-BLK1	ND	ug/L	50	5.0	
2-Fluorophenol (Surrogate)	BXD2450-BLK1	33.2	%	30 - 120 (LCL - UCL)		
Phenol-d5 (Surrogate)	BXD2450-BLK1	29.0	%	12 - 110 (LCL - UCL)		
Nitrobenzene-d5 (Surrogate)	BXD2450-BLK1	83.6	%	60 - 130 (LCL - UCL)		
2-Fluorobiphenyl (Surrogate)	BXD2450-BLK1	76.7	%	55 - 125 (LCL - UCL)		
2,4,6-Tribromophenol (Surrogate)	BXD2450-BLK1	58.9	%	40 - 150 (LCL - UCL)		
p-Terphenyl-d14 (Surrogate)	BXD2450-BLK1	89.5	%	40 - 150 (LCL - UCL)		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXD2450										
Acenaphthene	BXD2450-BS1	LCS	38.382	50.000	ug/L	76.8		50 - 120		
1,4-Dichlorobenzene	BXD2450-BS1	LCS	34.937	50.000	ug/L	69.9		50 - 120		
2,4-Dinitrotoluene	BXD2450-BS1	LCS	42.808	50.000	ug/L	85.6		50 - 120		
Hexachlorobenzene	BXD2450-BS1	LCS	39.303	50.000	ug/L	78.6		60 - 120		
Hexachlorobutadiene	BXD2450-BS1	LCS	27.641	50.000	ug/L	55.3		40 - 110		
Hexachloroethane	BXD2450-BS1	LCS	34.462	50.000	ug/L	68.9		40 - 120		
Nitrobenzene	BXD2450-BS1	LCS	33.482	50.000	ug/L	67.0		50 - 120		
N-Nitrosodi-N-propylamine	BXD2450-BS1	LCS	32.353	50.000	ug/L	64.7		50 - 120		
Pyrene	BXD2450-BS1	LCS	35.313	50.000	ug/L	70.6		40 - 140		
1,2,4-Trichlorobenzene	BXD2450-BS1	LCS	33.175	50.000	ug/L	66.3		45 - 120		
4-Chloro-3-methylphenol	BXD2450-BS1	LCS	37.402	50.000	ug/L	74.8		50 - 120		
2-Chlorophenol	BXD2450-BS1	LCS	32.403	50.000	ug/L	64.8		50 - 120		
2-Methylphenol	BXD2450-BS1	LCS	26.859	50.000	ug/L	53.7		40 - 110		
3- & 4-Methylphenol	BXD2450-BS1	LCS	58.489	100.00	ug/L	58.5		40 - 110		
4-Nitrophenol	BXD2450-BS1	LCS	17.860	50.000	ug/L	35.7		10 - 110		
Pentachlorophenol	BXD2450-BS1	LCS	38.184	50.000	ug/L	76.4		30 - 120		
Phenol	BXD2450-BS1	LCS	14.563	50.000	ug/L	29.1		20 - 110		
2,4,6-Trichlorophenol	BXD2450-BS1	LCS	38.531	50.000	ug/L	77.1		54 - 120		
Pyridine	BXD2450-BS1	LCS	15.187	50.000	ug/L	30.4		1 - 110		
2-Fluorophenol (Surrogate)	BXD2450-BS1	LCS	33.393	80.000	ug/L	41.7		30 - 120		
Phenol-d5 (Surrogate)	BXD2450-BS1	LCS	25.997	80.000	ug/L	32.5		12 - 110		
Nitrobenzene-d5 (Surrogate)	BXD2450-BS1	LCS	62.875	80.000	ug/L	78.6		60 - 130		
2-Fluorobiphenyl (Surrogate)	BXD2450-BS1	LCS	53.757	80.000	ug/L	67.2		55 - 125		
2,4,6-Tribromophenol (Surrogate)	BXD2450-BS1	LCS	58.707	80.000	ug/L	73.4		40 - 150		
p-Terphenyl-d14 (Surrogate)	BXD2450-BS1	LCS	29.502	40.000	ug/L	73.8		40 - 150		

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Tidewater Inc.
3761 Attucks Drive
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Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes QC Batch ID: BXD2450 and Used client sample: N.

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Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXD2450		Used client sample: N								
Pyridine	MS	1407468-12	ND	3.9045	50.000	ug/L		7.8	1 - 110	J
	MSD	1407468-12	ND	13.955	50.000	ug/L	113	27.9	30 1 - 110	Q03
2-Fluorophenol (Surrogate)	MS	1407468-12	ND	37.382	80.000	ug/L		46.7	30 - 120	
	MSD	1407468-12	ND	39.396	80.000	ug/L	5.2	49.2	30 - 120	
Phenol-d5 (Surrogate)	MS	1407468-12	ND	28.414	80.000	ug/L		35.5	12 - 110	
	MSD	1407468-12	ND	31.409	80.000	ug/L	10.0	39.3	12 - 110	
Nitrobenzene-d5 (Surrogate)	MS	1407468-12	ND	70.775	80.000	ug/L		88.5	60 - 130	
	MSD	1407468-12	ND	78.792	80.000	ug/L	10.7	98.5	60 - 130	
2-Fluorobiphenyl (Surrogate)	MS	1407468-12	ND	56.876	80.000	ug/L		71.1	55 - 125	
	MSD	1407468-12	ND	59.535	80.000	ug/L	4.6	74.4	55 - 125	
2,4,6-Tribromophenol (Surrogate)	MS	1407468-12	ND	67.792	80.000	ug/L		84.7	40 - 150	
	MSD	1407468-12	ND	69.051	80.000	ug/L	1.8	86.3	40 - 150	
p-Terphenyl-d14 (Surrogate)	MS	1407468-12	ND	38.522	40.000	ug/L		96.3	40 - 150	
	MSD	1407468-12	ND	44.365	40.000	ug/L	14.1	111	40 - 150	

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Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2450						
1-Acetyl-2-thiourea	BXD2450-BLK1	0	ug/L			
2-Aminoanthraquinone	BXD2450-BLK1	0	ug/L			
3-Amino-9-ethylcarbazole	BXD2450-BLK1	0	ug/L			
Anilazine	BXD2450-BLK1	0	ug/L			
o-Anisidine	BXD2450-BLK1	0	ug/L			
Azinphos methyl	BXD2450-BLK1	0	ug/L			
Barban	BXD2450-BLK1	0	ug/L			
p-Benzoquinone	BXD2450-BLK1	0	ug/L			
Bromoxynil	BXD2450-BLK1	0	ug/L			
Captafol	BXD2450-BLK1	0	ug/L			
Captan	BXD2450-BLK1	0	ug/L			
Carbaryl	BXD2450-BLK1	0	ug/L			
Carbofuran	BXD2450-BLK1	0	ug/L			
Carbophenothion	BXD2450-BLK1	0	ug/L			
Chlorfenvinphos	BXD2450-BLK1	0	ug/L			
5-Chloro-2-methylaniline	BXD2450-BLK1	0	ug/L			
3-(Chloromethyl) pyridine hydrochloride	BXD2450-BLK1	0	ug/L			
4-Chloro-1,2-phenylenediamine	BXD2450-BLK1	0	ug/L			
4-Chloro-1,3-phenylenediamine	BXD2450-BLK1	0	ug/L			
Coumaphos	BXD2450-BLK1	0	ug/L			
p-Cresidine	BXD2450-BLK1	0	ug/L			
Crotoxphos	BXD2450-BLK1	0	ug/L			
2-Cyclohexyl-4,6-dinitrophenol	BXD2450-BLK1	0	ug/L			
Demeton-O	BXD2450-BLK1	0	ug/L			
Demeton-S	BXD2450-BLK1	0	ug/L			
2,4-Diaminotoluene	BXD2450-BLK1	0	ug/L			
Dibenz[a,j]acridine	BXD2450-BLK1	0	ug/L			
Dibenzo[a,e]pyrene	BXD2450-BLK1	0	ug/L			
1,2-Dibromo-3-chloropropane	BXD2450-BLK1	0	ug/L			
Dichlone	BXD2450-BLK1	0	ug/L			
Dichlorvos	BXD2450-BLK1	0	ug/L			
Dicrotophos	BXD2450-BLK1	0	ug/L			
Diethylstilbestrol	BXD2450-BLK1	0	ug/L			
Diethyl sulfate	BXD2450-BLK1	0	ug/L			

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3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2450						
Dihydrosafrole	BXD2450-BLK1	0	ug/L			
3,3'-Dimethoxybenzidine	BXD2450-BLK1	0	ug/L			
1,2-Dinitrobenzene	BXD2450-BLK1	0	ug/L			
1,4-Dinitrobenzene	BXD2450-BLK1	0	ug/L			
Dinocap	BXD2450-BLK1	0	ug/L			
Dioxathion	BXD2450-BLK1	0	ug/L			
5,5-Diphenylhydantoin	BXD2450-BLK1	0	ug/L			
Endrin ketone	BXD2450-BLK1	0	ug/L			
EPN	BXD2450-BLK1	0	ug/L			
Ethion	BXD2450-BLK1	0	ug/L			
Ethyl carbamate	BXD2450-BLK1	0	ug/L			
Fensulfothion	BXD2450-BLK1	0	ug/L			
Fenthion	BXD2450-BLK1	0	ug/L			
Fluchloralin	BXD2450-BLK1	0	ug/L			
Hexamethylphosphoramide	BXD2450-BLK1	0	ug/L			
Hydroquinone	BXD2450-BLK1	0	ug/L			
Leptophos	BXD2450-BLK1	0	ug/L			
Malathion	BXD2450-BLK1	0	ug/L			
Maleic Anhydride	BXD2450-BLK1	0	ug/L			
Mestranol	BXD2450-BLK1	0	ug/L			
4,4'-Methylenebis(2-chloroaniline)	BXD2450-BLK1	0	ug/L			
4,4'-Methylenebis[N,N-dimethylaniline]	BXD2450-BLK1	0	ug/L			
Mevinphos	BXD2450-BLK1	0	ug/L			
Mexacarbate	BXD2450-BLK1	0	ug/L			
Mirex	BXD2450-BLK1	0	ug/L			
Monocrotophos	BXD2450-BLK1	0	ug/L			
Naled	BXD2450-BLK1	0	ug/L			
Nicotine	BXD2450-BLK1	0	ug/L			
5-Nitroacenaphthene	BXD2450-BLK1	0	ug/L			
5-Nitro-o-anisidine	BXD2450-BLK1	0	ug/L			
4-Nitrobiphenyl	BXD2450-BLK1	0	ug/L			
Nitrophen	BXD2450-BLK1	0	ug/L			
Octamethylpyrophosphoramide	BXD2450-BLK1	0	ug/L			
4,4'-Oxydianiline	BXD2450-BLK1	0	ug/L			

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3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2450						
Phenobarbital	BXD2450-BLK1	0	ug/L			
Phosalone	BXD2450-BLK1	0	ug/L			
Phosmet	BXD2450-BLK1	0	ug/L			
Phosphamidon	BXD2450-BLK1	0	ug/L			
Phthalic anhydride	BXD2450-BLK1	0	ug/L			
Piperonyl sulfoxide	BXD2450-BLK1	0	ug/L			
Propylthiouracil	BXD2450-BLK1	0	ug/L			
Resorcinol	BXD2450-BLK1	0	ug/L			
Strychnine	BXD2450-BLK1	0	ug/L			
Sulfallate	BXD2450-BLK1	0	ug/L			
Terbufos	BXD2450-BLK1	0	ug/L			
Tetrachlorvinphos	BXD2450-BLK1	0	ug/L			
TEPP	BXD2450-BLK1	0	ug/L			
Thiophenol (Benzenethiol)	BXD2450-BLK1	0	ug/L			
Toluene 2,4-diisocyanate	BXD2450-BLK1	0	ug/L			
Trifluralin	BXD2450-BLK1	0	ug/L			
2,4,5-Trimethylaniline	BXD2450-BLK1	0	ug/L			
Trimethyl phosphate	BXD2450-BLK1	0	ug/L			
Tris(2,3-dibromopropyl) phosphate	BXD2450-BLK1	0	ug/L			
Tri-p-tolyl phosphate	BXD2450-BLK1	0	ug/L			

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2481						
Acenaphthene	BXD2481-BLK1	ND	ug/L	0.10	0.034	
Acenaphthylene	BXD2481-BLK1	ND	ug/L	0.10	0.034	
Anthracene	BXD2481-BLK1	ND	ug/L	0.10	0.034	
Benzo[a]anthracene	BXD2481-BLK1	ND	ug/L	0.10	0.034	
Benzo[b]fluoranthene	BXD2481-BLK1	ND	ug/L	0.10	0.034	
Benzo[k]fluoranthene	BXD2481-BLK1	ND	ug/L	0.10	0.034	
Benzo[a]pyrene	BXD2481-BLK1	ND	ug/L	0.10	0.034	
Benzo[g,h,i]perylene	BXD2481-BLK1	ND	ug/L	0.10	0.034	
Chrysene	BXD2481-BLK1	ND	ug/L	0.10	0.034	
Dibenzo[a,h]anthracene	BXD2481-BLK1	ND	ug/L	0.10	0.034	
Fluoranthene	BXD2481-BLK1	ND	ug/L	0.10	0.034	
Fluorene	BXD2481-BLK1	ND	ug/L	0.10	0.034	
Indeno[1,2,3-cd]pyrene	BXD2481-BLK1	ND	ug/L	0.10	0.034	
Naphthalene	BXD2481-BLK1	ND	ug/L	0.10	0.034	
Phenanthrene	BXD2481-BLK1	ND	ug/L	0.10	0.034	
Pyrene	BXD2481-BLK1	ND	ug/L	0.10	0.034	
Nitrobenzene-d5 (Surrogate)	BXD2481-BLK1	79.5	%	42 - 130 (LCL - UCL)		
2-Fluorobiphenyl (Surrogate)	BXD2481-BLK1	76.0	%	50 - 116 (LCL - UCL)		
p-Terphenyl-d14 (Surrogate)	BXD2481-BLK1	90.0	%	43 - 134 (LCL - UCL)		

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Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXD2481										
Acenaphthene	BXD2481-BS1	LCS	1.0185	1.0000	ug/L	102		60 - 110		
Acenaphthylene	BXD2481-BS1	LCS	1.0185	1.0000	ug/L	102		56 - 120		
Anthracene	BXD2481-BS1	LCS	1.0282	1.0000	ug/L	103		57 - 128		
Benzo[a]anthracene	BXD2481-BS1	LCS	0.96030	1.0000	ug/L	96.0		64 - 130		
Benzo[b]fluoranthene	BXD2481-BS1	LCS	0.95060	1.0000	ug/L	95.1		50 - 130		
Benzo[k]fluoranthene	BXD2481-BS1	LCS	1.0185	1.0000	ug/L	102		60 - 120		
Benzo[a]pyrene	BXD2481-BS1	LCS	0.94090	1.0000	ug/L	94.1		60 - 125		
Benzo[g,h,i]perylene	BXD2481-BS1	LCS	0.82450	1.0000	ug/L	82.4		44 - 120		
Chrysene	BXD2481-BS1	LCS	1.0088	1.0000	ug/L	101		60 - 110		
Dibenzo[a,h]anthracene	BXD2481-BS1	LCS	0.82450	1.0000	ug/L	82.4		40 - 120		
Fluoranthene	BXD2481-BS1	LCS	1.0282	1.0000	ug/L	103		60 - 120		
Fluorene	BXD2481-BS1	LCS	0.97970	1.0000	ug/L	98.0		60 - 120		
Indeno[1,2,3-cd]pyrene	BXD2481-BS1	LCS	0.83420	1.0000	ug/L	83.4		40 - 130		
Naphthalene	BXD2481-BS1	LCS	0.99910	1.0000	ug/L	99.9		60 - 110		
Phenanthrene	BXD2481-BS1	LCS	0.98940	1.0000	ug/L	98.9		60 - 120		
Pyrene	BXD2481-BS1	LCS	1.1349	1.0000	ug/L	113		50 - 125		
Nitrobenzene-d5 (Surrogate)	BXD2481-BS1	LCS	4.1807	4.0000	ug/L	105		42 - 130		
2-Fluorobiphenyl (Surrogate)	BXD2481-BS1	LCS	4.0934	4.0000	ug/L	102		50 - 116		
p-Terphenyl-d14 (Surrogate)	BXD2481-BS1	LCS	4.6948	4.0000	ug/L	117		43 - 134		

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Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes a sub-table for QC Batch ID: BXD2481.

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Project Manager: David Conner

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: BXD2481		Used client sample: N									
p-Terphenyl-d14 (Surrogate)	MS	1407468-44	ND	4.8312	4.0000	ug/L		121		43 - 134	
	MSD	1407468-44	ND	4.7124	4.0000	ug/L	2.5	118		43 - 134	

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Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2022						
Chloride	BXD2022-BLK1	ND	mg/L	0.50	0.067	
Nitrate as N	BXD2022-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXD2022-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXD2024						
Chloride	BXD2024-BLK1	ND	mg/L	0.50	0.067	
Nitrate as N	BXD2024-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXD2024-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXD2051						
Nitrite as N	BXD2051-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXD2053						
Nitrite as N	BXD2053-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXD2110						
Bicarbonate	BXD2110-BLK1	ND	mg/L	5.0	5.0	
Carbonate	BXD2110-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	BXD2110-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXD2111						
Bicarbonate	BXD2111-BLK1	ND	mg/L	5.0	5.0	
Carbonate	BXD2111-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	BXD2111-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXD2183						
Total Recoverable Calcium	BXD2183-BLK1	ND	mg/L	0.10	0.014	
Total Recoverable Magnesium	BXD2183-BLK1	ND	mg/L	0.050	0.019	
Total Recoverable Sodium	BXD2183-BLK1	ND	mg/L	0.50	0.017	
Total Recoverable Potassium	BXD2183-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXD2184						
Total Recoverable Calcium	BXD2184-BLK1	ND	mg/L	0.10	0.014	
Total Recoverable Magnesium	BXD2184-BLK2	0.029029	mg/L	0.050	0.019	J
Total Recoverable Sodium	BXD2184-BLK1	ND	mg/L	0.50	0.017	
Total Recoverable Potassium	BXD2184-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXD2383						
Total Dissolved Solids @ 180 C	BXD2383-BLK1	ND	mg/L	6.7	6.7	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2384						
Total Dissolved Solids @ 180 C	BXD2384-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXE0392						
Perchlorate	BXE0392-BLK1	ND	ug/L	4.0	0.45	
QC Batch ID: BXE0512						
Perchlorate	BXE0512-BLK1	ND	ug/L	4.0	0.45	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXD2022										
Chloride	BXD2022-BS1	LCS	50.457	50.000	mg/L	101		90 - 110		
Nitrate as N	BXD2022-BS1	LCS	5.1310	5.0000	mg/L	103		90 - 110		
Sulfate	BXD2022-BS1	LCS	101.69	100.00	mg/L	102		90 - 110		
QC Batch ID: BXD2024										
Chloride	BXD2024-BS1	LCS	50.664	50.000	mg/L	101		90 - 110		
Nitrate as N	BXD2024-BS1	LCS	5.1090	5.0000	mg/L	102		90 - 110		
Sulfate	BXD2024-BS1	LCS	101.65	100.00	mg/L	102		90 - 110		
QC Batch ID: BXD2051										
Nitrite as N	BXD2051-BS1	LCS	0.53125	0.50000	mg/L	106		90 - 110		
QC Batch ID: BXD2053										
Nitrite as N	BXD2053-BS1	LCS	0.52855	0.50000	mg/L	106		90 - 110		
QC Batch ID: BXD2110										
Total Alkalinity as CaCO3	BXD2110-BS3	LCS	101.02	100.00	mg/L	101		90 - 110		
pH	BXD2110-BS2	LCS	7.0400	7.0000	pH Units	101		95 - 105		
QC Batch ID: BXD2111										
Total Alkalinity as CaCO3	BXD2111-BS3	LCS	99.190	100.00	mg/L	99.2		90 - 110		
pH	BXD2111-BS2	LCS	7.0400	7.0000	pH Units	101		95 - 105		
QC Batch ID: BXD2183										
Total Recoverable Calcium	BXD2183-BS1	LCS	9.0609	10.000	mg/L	90.6		85 - 115		
Total Recoverable Magnesium	BXD2183-BS1	LCS	9.4135	10.000	mg/L	94.1		85 - 115		
Total Recoverable Sodium	BXD2183-BS1	LCS	9.1662	10.000	mg/L	91.7		85 - 115		
Total Recoverable Potassium	BXD2183-BS1	LCS	9.0885	10.000	mg/L	90.9		85 - 115		
QC Batch ID: BXD2184										
Total Recoverable Calcium	BXD2184-BS1	LCS	9.8454	10.000	mg/L	98.5		85 - 115		
Total Recoverable Magnesium	BXD2184-BS2	LCS	10.659	10.000	mg/L	107		85 - 115		
Total Recoverable Sodium	BXD2184-BS1	LCS	10.209	10.000	mg/L	102		85 - 115		
Total Recoverable Potassium	BXD2184-BS1	LCS	9.8416	10.000	mg/L	98.4		85 - 115		
QC Batch ID: BXD2383										
Total Dissolved Solids @ 180 C	BXD2383-BS1	LCS	600.00	586.00	mg/L	102		90 - 110		
QC Batch ID: BXD2384										
Total Dissolved Solids @ 180 C	BXD2384-BS1	LCS	560.00	586.00	mg/L	95.6		90 - 110		
QC Batch ID: BXE0392										

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXE0392										
Perchlorate	BXE0392-BS1	LCS	10.545	10.000	ug/L	105		85	115	
QC Batch ID: BXE0512										
Perchlorate	BXE0512-BS1	LCS	10.881	10.000	ug/L	109		85	115	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)
Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes QC Batch IDs: BXD2022, BXD2024, BXD2051, BXD2053, BXD2110, BXD2111.

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes QC Batch IDs: BXD2111, BXD2183, BXD2184, BXD2383, BXD2384, BXE0392, BXE0512.

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXE0512		Used client sample: Y - Description: MW-25-3, 04/23/2014 13:20								
Perchlorate	DUP	409094-10RE'	12.263	12.553		ug/L	2.3		15	
	MS	409094-10RE'	12.263	30.617	20.202	ug/L		90.9		80 - 120
	MSD	409094-10RE'	12.263	31.859	20.202	ug/L	4.0	97.0	15	80 - 120

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2042						
Hexavalent Chromium	BXD2042-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BXD2043						
Hexavalent Chromium	BXD2043-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BXD2183						
Total Recoverable Iron	BXD2183-BLK1	7.1841	ug/L	50	6.5	J
QC Batch ID: BXD2184						
Total Recoverable Iron	BXD2184-BLK1	ND	ug/L	50	6.5	
QC Batch ID: BXD2318						
Total Recoverable Arsenic	BXD2318-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	BXD2318-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	BXD2318-BLK1	0.15900	ug/L	1.0	0.10	J
QC Batch ID: BXD2429						
Total Recoverable Arsenic	BXD2429-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	BXD2429-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	BXD2429-BLK1	ND	ug/L	1.0	0.10	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits		Lab RPD Quals
							Percent Recovery	RPD	
QC Batch ID: BXD2042									
Hexavalent Chromium	BXD2042-BS1	LCS	0.049961	0.050000	mg/L	99.9	85 - 115		
QC Batch ID: BXD2043									
Hexavalent Chromium	BXD2043-BS1	LCS	0.049336	0.050000	mg/L	98.7	85 - 115		
QC Batch ID: BXD2183									
Total Recoverable Iron	BXD2183-BS1	LCS	947.73	1000.0	ug/L	94.8	85 - 115		
QC Batch ID: BXD2184									
Total Recoverable Iron	BXD2184-BS1	LCS	996.64	1000.0	ug/L	99.7	85 - 115		
QC Batch ID: BXD2318									
Total Recoverable Arsenic	BXD2318-BS1	LCS	100.34	100.00	ug/L	100	85 - 115		
Total Recoverable Chromium	BXD2318-BS1	LCS	41.618	40.000	ug/L	104	85 - 115		
Total Recoverable Lead	BXD2318-BS1	LCS	109.98	100.00	ug/L	110	85 - 115		
QC Batch ID: BXD2429									
Total Recoverable Arsenic	BXD2429-BS1	LCS	100.99	100.00	ug/L	101	85 - 115		
Total Recoverable Chromium	BXD2429-BS1	LCS	41.249	40.000	ug/L	103	85 - 115		
Total Recoverable Lead	BXD2429-BS1	LCS	111.86	100.00	ug/L	112	85 - 115		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes QC Batch IDs BXD2042, BXD2043, BXD2183, BXD2184, BXD2318, BXD2429 and various chemical analysis results.

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 07/01/2014 16:15
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A02 The difference between duplicate readings is less than the PQL.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.
- S05 The sample holding time was exceeded.



Date of Report: 05/14/2014

David Conner

Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Client Project: 2nd Qtr.
BCL Project: JPL- GW Monitoring Wells
BCL Work Order: 1409204
Invoice ID: B173266

Enclosed are the results of analyses for samples received by the laboratory on 4/24/2014. 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; AK UST101

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Chain of Custody Form



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@tidah2o.net
 Submission #: 1409204

Project Description: JPL-GW Monitoring
 Project Code: 2nd Qtr.
 Sampler(s): Blaine Tech

Analysis Requested:
 VOCs EPA 5242
 TRM: Cr, Pb, As, Ca, Mg, K
 Na, Fe
 Hexavalent Cr6 -7196 (mg/L)
 Cl, NO3, NO2, SO4, Perch.
 CO3, HCO3, Alk., TDS, pH
 Orthophosphate 365.1
 8270 Phenols
 8270 PAHs

Sample #	Sample Description	Date	Time	Matrix*
-1	TR-4-4/24/14	4-24-14	0600	AQ
-2	SB-2-4/24/14		0630	
-3	EB-4-4/24/14		0640	
-4	MW-22-5		0720	
-5	MW-22-4		0800	
-6	MW-22-3		0840	
-7	MW-22-2		0915	
-8	MW-22-1		0950	
-9	MW-24-5		1045	
-10	MW-24-4		1130	
-11	MW-24-3		1205	

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: 4-24-14 Time: 1630
 2. Received By: [Signature] Date: 4-24-14 Time: 1630
 3. Received By: [Signature] Date: 4-24-14 Time: 1630

Notes:
 Level IV
 Level IV SHORT HOURLY TIME
 MS/MSD
 DO O2 BOD MBAS COT

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

BC Laboratories, Inc. 4100 Atlas Court - Bakersfield CA 93306 (661) 327-4911 Fax: (661) 327-1918 www.bclabs.com



Chain of Custody Form

BC Laboratories, Inc.

Page 2 of 2

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@tidew2o.net
Submission #: 14-09204

Project Description: JPL-GW Monitoring
Project Code: 2nd Qtr.
Sampler (s): Blaine Tech

Analysis Requested

Sample #	Sample Description	Date	Time	Matrix*	VOCs EPA 524.2	TRM: Cr, Pb, As, Ca, Mg, K	Na, Fe	Hexavalent Cr6 - 7196 (mg/L)	Cl, NO3, NO2, SO4, Perch.,	CO3, HCO3, Alk., TDS, pH	Orthophosphate 365.1	8270 Phenols	8270 PAHs	Notes
-12	MW-24-2	4-24-14	12:40	LR	X	X	X	X	X	X	X			
-13	DUP-2-20214	↓	13:00	↓	X	X	X	X	X	X	X			
-14	MW-24-1	↓	13:45	↓	X	X	X	X	X	X	X			

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

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

Lab TAT Approval: _____ *Additional Charges May Apply

Comments:
 PLEASE NOTATE WHICH SAMPLES TO USE FOR 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)

Cost Center:
 1. Relinquished By: _____ Date: _____ Time: _____
 2. Relinquished By: NIGALE Date: 4-24-14 Time: 16:30
 3. Relinquished By: _____ Date: _____ Time: _____

Global ID:
 1. Received By: _____ Date: _____ Time: _____
 2. Received By: NIGALE Date: 4-24-14 Time: 16:30
 3. Received By: _____ Date: _____ Time: _____

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

Submission #: 1409204

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: 0.95 Container: PE Thermometer ID: 207 Date/Time: 4/24/14 1935
 Temperature: (A) 1.7 °C / (C) 1.7 °C Analyst Init: BP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/GENERAL		B	B	B	B	B	B	B	B	B
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS		C	C	C	C	C	C	C	C	C
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A1									
40ml VOA VIAL		A3	A3	A3	A3	A3	A3	A3	A3	A3
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: BP Date/Time: 4/25/14 00:08
 A = Actual / C = Corrected

[S:\MyDOCS\WordPerfect\LAB_DOCS\FORMS\SAMREC15]



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

Submission #: 14-09204

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: 0.95 Container: PE Thermometer ID: 207
 Temperature: (A) 1.7 °C / (C) 1.7 °C

Date/Time: 4/24/14 19:35
 Analyst Init: BP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	B	B	B	B						
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS	C	C	C	C						
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A3	A3	A3	A3						
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: BP Date/Time: 4/25/14 00:08
 A = Actual / C = Corrected



Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1409204-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-4-4/24/14 Sampled By: Blaine Tech of BAT	Receive Date: 04/24/2014 19:35 Sampling Date: 04/24/2014 06:00 Sample Depth: --- Lab Matrix: Water Sample Type: Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-4-4/24/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1409204-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: SB-2-4/24/14 Sampled By: Blaine Tech of BAT	Receive Date: 04/24/2014 19:35 Sampling Date: 04/24/2014 06:30 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): SB-2-4/24/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1409204-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: EB-4-4/24/14 Sampled By: Blaine Tech of BAT	Receive Date: 04/24/2014 19:35 Sampling Date: 04/24/2014 06:40 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-4-4/24/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1409204-04	COC Number: ---	Receive Date: 04/24/2014 19:35
	Project Number: JPL-GW	Sampling Date: 04/24/2014 07:20
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-22-5	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Aqueous
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-22-5
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1409204-05	COC Number: ---	Receive Date: 04/24/2014 19:35
	Project Number: JPL-GW	Sampling Date: 04/24/2014 08:00
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-22-4	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Aqueous
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-22-4
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1409204-06	COC Number: ---	Receive Date: 04/24/2014 19:35
	Project Number: JPL-GW	Sampling Date: 04/24/2014 08:40
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-22-3	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Aqueous
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-22-3
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1409204-07	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-22-2 Sampled By: Blaine Tech of BAT	Receive Date: 04/24/2014 19:35 Sampling Date: 04/24/2014 09:15 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-22-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1409204-08	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-22-1 Sampled By: Blaine Tech of BAT	Receive Date: 04/24/2014 19:35 Sampling Date: 04/24/2014 09:50 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous 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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1409204-09	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-24-5 Sampled By: Blaine Tech of BAT	Receive Date: 04/24/2014 19:35 Sampling Date: 04/24/2014 10:45 Sample Depth: --- Lab Matrix: Water Sample Type: 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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1409204-10	COC Number: ---	Receive Date: 04/24/2014 19:35
	Project Number: JPL-GW	Sampling Date: 04/24/2014 11:30
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-24-4	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Aqueous
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-24-4
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1409204-11	COC Number: ---	Receive Date: 04/24/2014 19:35
	Project Number: JPL-GW	Sampling Date: 04/24/2014 12:05
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-24-3	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Aqueous
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-24-3
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1409204-12	COC Number: ---	Receive Date: 04/24/2014 19:35
	Project Number: JPL-GW	Sampling Date: 04/24/2014 12:40
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-24-2	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: 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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1409204-13	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: DUP-2-2Q14 Sampled By: Blaine Tech of BAT	Receive Date: 04/24/2014 19:35 Sampling Date: 04/24/2014 13:00 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): DUP-2-2Q14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1409204-14	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-24-1 Sampled By: Blaine Tech of BAT	Receive Date: 04/24/2014 19:35 Sampling Date: 04/24/2014 13:45 Sample Depth: --- Lab Matrix: Water Sample Type: 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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-01	Client Sample Name: JPL-GW, TB-4-4/24/14, 4/24/2014 6:00:00AM, Blaine Tech
----------------------------------	---

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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-01	Client Sample Name: JPL-GW, TB-4-4/24/14, 4/24/2014 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: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-01	Client Sample Name: JPL-GW, TB-4-4/24/14, 4/24/2014 6:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	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	04/25/14	04/25/14 11:10	MGC	MS-V5	1	BXD1730

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409204-01	Client Sample Name: JPL-GW, TB-4-4/24/14, 4/24/2014 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	04/25/14	04/25/14 11:10	MGC	MS-V5	1	BXD1730

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-02	Client Sample Name: JPL-GW, SB-2-4/24/14, 4/24/2014 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		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: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-02	Client Sample Name: JPL-GW, SB-2-4/24/14, 4/24/2014 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		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-02 **Client Sample Name:** JPL-GW, SB-2-4/24/14, 4/24/2014 6:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	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)	99.5	%	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	04/25/14	04/25/14 11:32	MGC	MS-V5	1	BXD1730

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409204-02	Client Sample Name: JPL-GW, SB-2-4/24/14, 4/24/2014 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	04/25/14	04/25/14 11:32	MGC	MS-V5	1	BXD1730

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409204-02		Client Sample Name: JPL-GW, SB-2-4/24/14, 4/24/2014 6:30:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	0.036	mg/L	0.10	0.018	EPA-200.7	0.027	J	1
Total Recoverable Magnesium	ND	mg/L	0.050	0.020	EPA-200.7	0.028		1
Total Recoverable Sodium	0.064	mg/L	0.50	0.017	EPA-200.7	0.073	J	1
Total Recoverable Potassium	ND	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	ND	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	0.16	mg/L	0.50	0.067	EPA-300.0	0.11	J	3
Nitrate as N	ND	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	ND	mg/L	1.0	0.18	EPA-300.0	ND		3
pH	6.37	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	ND	mg/L	6.7	6.7	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	04/29/14	05/01/14	21:01	JRG	PE-OP2	1	BXD2424
2	SM-2320B	04/25/14	04/25/14	21:17	RML	MET-1	1	BXD2236
3	EPA-300.0	04/24/14	04/25/14	02:13	LD1	IC1	1	BXD2221
4	EPA-150.1	04/25/14	04/25/14	21:17	RML	MET-1	1	BXD2236
5	EPA-160.1	04/29/14	04/29/14	13:00	FRP	MANUAL	0.667	BXD2486
6	EPA-353.2	04/25/14	04/25/14	08:47	TDC	KONE-1	1	BXD2214
7	EPA-314.0	05/06/14	05/07/14	06:01	LD1	IC6	1	BXE0680

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409204-02	Client Sample Name: JPL-GW, SB-2-4/24/14, 4/24/2014 6:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00070	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	0.52	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	ND	ug/L	50	6.5	EPA-200.7	22		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/24/14	04/25/14 00:49	OLH	KONE-1	1	BXD2208
2	EPA-200.8	04/29/14	05/01/14 23:54	SRM	PE-EL2	1	BXD2427
3	EPA-200.7	04/29/14	05/01/14 21:01	JRG	PE-OP2	1	BXD2424

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Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-03	Client Sample Name: JPL-GW, EB-4-4/24/14, 4/24/2014 6:40:00AM, 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		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: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-03	Client Sample Name: JPL-GW, EB-4-4/24/14, 4/24/2014 6:40:00AM, 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: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-03	Client Sample Name: JPL-GW, EB-4-4/24/14, 4/24/2014 6:40:00AM, 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		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)	98.7	%	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	04/25/14	04/25/14 11:55	MGC	MS-V5	1	BXD1730

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409204-03	Client Sample Name: JPL-GW, EB-4-4/24/14, 4/24/2014 6:40:00AM, 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	04/25/14	04/25/14 11:55	MGC	MS-V5	1	BXD1730

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Tidewater Inc.
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Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409204-03		Client Sample Name: JPL-GW, EB-4-4/24/14, 4/24/2014 6:40:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	0.031	mg/L	0.10	0.018	EPA-200.7	0.027	J	1
Total Recoverable Magnesium	0.024	mg/L	0.050	0.020	EPA-200.7	0.028	J	1
Total Recoverable Sodium	0.045	mg/L	0.50	0.017	EPA-200.7	0.073	J	1
Total Recoverable Potassium	ND	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	ND	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	ND	mg/L	0.50	0.067	EPA-300.0	0.11		3
Nitrate as N	ND	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	ND	mg/L	1.0	0.18	EPA-300.0	ND		3
pH	6.06	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	ND	mg/L	6.7	6.7	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	04/29/14	05/01/14	21:11	JRG	PE-OP2	1	BXD2424
2	SM-2320B	04/25/14	04/25/14	21:22	RML	MET-1	1	BXD2236
3	EPA-300.0	04/24/14	04/25/14	02:28	LD1	IC1	1	BXD2221
4	EPA-150.1	04/25/14	04/25/14	21:22	RML	MET-1	1	BXD2236
5	EPA-160.1	04/29/14	04/29/14	13:00	FRP	MANUAL	0.667	BXD2487
6	EPA-353.2	04/25/14	04/25/14	08:47	TDC	KONE-1	1	BXD2214
7	EPA-314.0	05/06/14	05/07/14	06:15	LD1	IC6	1	BXE0680

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409204-03	Client Sample Name: JPL-GW, EB-4-4/24/14, 4/24/2014 6:40:00AM, 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 Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	0.64	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	20	ug/L	50	6.5	EPA-200.7	22	J	3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/24/14	04/25/14 00:49	OLH	KONE-1	1	BXD2208
2	EPA-200.8	04/29/14	05/01/14 23:57	SRM	PE-EL2	1	BXD2427
3	EPA-200.7	04/29/14	05/01/14 21:11	JRG	PE-OP2	1	BXD2424

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Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-04	Client Sample Name: JPL-GW, MW-22-5, 4/24/2014 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		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: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-04	Client Sample Name: JPL-GW, MW-22-5, 4/24/2014 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
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: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-04	Client Sample Name: JPL-GW, MW-22-5, 4/24/2014 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		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)	93.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/25/14	04/25/14 12:18	MGC	MS-V5	1	BXD2012

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409204-04	Client Sample Name: JPL-GW, MW-22-5, 4/24/2014 7:20:00AM, 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	04/25/14	04/25/14 12:18	MGC	MS-V5	1	BXD2012

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Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409204-04		Client Sample Name: JPL-GW, MW-22-5, 4/24/2014 7:20:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	6.3	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	1.6	mg/L	0.050	0.020	EPA-200.7	ND		1
Total Recoverable Sodium	68	mg/L	0.50	0.017	EPA-200.7	0.10		1
Total Recoverable Potassium	0.95	mg/L	1.0	0.10	EPA-200.7	0.32	J	1
Bicarbonate	83	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	16	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	95	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	7.2	mg/L	0.50	0.067	EPA-300.0	0.22		3
Nitrate as N	ND	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	42	mg/L	1.0	0.18	EPA-300.0	ND		3
pH	9.00	pH Units	0.05	0.05	EPA-150.1		S05	5
Total Dissolved Solids @ 180 C	210	mg/L	20	20	EPA-160.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		7
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		8

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	05/09/14	05/12/14	18:58	JRG	PE-OP2	1	BXE0839
2	SM-2320B	04/25/14	04/25/14	21:27	RML	MET-1	1	BXD2236
3	EPA-300.0	05/08/14	05/09/14	04:46	LD1	IC2	1	BXE0793
4	EPA-300.0	04/24/14	04/25/14	02:43	LD1	IC1	1	BXD2221
5	EPA-150.1	04/25/14	04/25/14	21:27	RML	MET-1	1	BXD2236
6	EPA-160.1	04/29/14	04/29/14	13:00	FRP	MANUAL	2	BXD2487
7	EPA-353.2	04/25/14	04/25/14	14:25	TDC	KONE-1	1	BXD2217
8	EPA-314.0	05/06/14	05/07/14	06:29	LD1	IC6	1	BXE0680

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3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409204-04	Client Sample Name: JPL-GW, MW-22-5, 4/24/2014 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 Arsenic	0.72	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	63	ug/L	50	6.5	EPA-200.7	22		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/24/14	04/25/14 00:49	OLH	KONE-1	1	BXD2208
2	EPA-200.8	04/29/14	05/02/14 00:00	SRM	PE-EL2	1	BXD2427
3	EPA-200.7	04/29/14	05/01/14 21:13	JRG	PE-OP2	1	BXD2424

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Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-05	Client Sample Name: JPL-GW, MW-22-4, 4/24/2014 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		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: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-05	Client Sample Name: JPL-GW, MW-22-4, 4/24/2014 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
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: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-05	Client Sample Name: JPL-GW, MW-22-4, 4/24/2014 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		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)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/25/14	04/25/14 12:40	MGC	MS-V5	1	BXD1730

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Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409204-05	Client Sample Name: JPL-GW, MW-22-4, 4/24/2014 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	04/25/14	04/25/14 12:40	MGC	MS-V5	1	BXD1730

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Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409204-05		Client Sample Name: JPL-GW, MW-22-4, 4/24/2014 8:00:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	36	mg/L	0.10	0.018	EPA-200.7	0.027		1
Total Recoverable Magnesium	11	mg/L	0.050	0.020	EPA-200.7	0.028		1
Total Recoverable Sodium	29	mg/L	0.50	0.017	EPA-200.7	0.073		1
Total Recoverable Potassium	1.8	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	180	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	150	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	12	mg/L	0.50	0.067	EPA-300.0	0.11		3
Nitrate as N	4.0	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	11	mg/L	1.0	0.18	EPA-300.0	ND		3
pH	8.00	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	250	mg/L	20	20	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	04/29/14	05/01/14	21:16	JRG	PE-OP2	1	BXD2424
2	SM-2320B	04/25/14	04/25/14	21:33	RML	MET-1	1	BXD2236
3	EPA-300.0	04/24/14	04/25/14	02:58	LD1	IC1	1	BXD2221
4	EPA-150.1	04/25/14	04/25/14	21:33	RML	MET-1	1	BXD2236
5	EPA-160.1	04/29/14	04/29/14	13:00	FRP	MANUAL	2	BXD2487
6	EPA-353.2	04/25/14	04/25/14	08:47	TDC	KONE-1	1	BXD2214
7	EPA-314.0	05/06/14	05/07/14	08:58	LD1	IC6	1	BXE0680

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3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409204-05	Client Sample Name: JPL-GW, MW-22-4, 4/24/2014 8:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0021	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Arsenic	1.1	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	1.9	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	77	ug/L	50	6.5	EPA-200.7	22		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/24/14	04/25/14 00:49	OLH	KONE-1	1	BXD2208
2	EPA-200.8	04/29/14	05/02/14 00:03	SRM	PE-EL2	1	BXD2427
3	EPA-200.7	04/29/14	05/01/14 21:16	JRG	PE-OP2	1	BXD2424

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-06	Client Sample Name: JPL-GW, MW-22-3, 4/24/2014 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		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: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-06	Client Sample Name: JPL-GW, MW-22-3, 4/24/2014 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
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: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-06	Client Sample Name: JPL-GW, MW-22-3, 4/24/2014 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		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)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/25/14	04/25/14 13:03	MGC	MS-V5	1	BXD1730

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Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409204-06	Client Sample Name: JPL-GW, MW-22-3, 4/24/2014 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	04/25/14	04/25/14 13:03	MGC	MS-V5	1	BXD1730

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409204-06	Client Sample Name: JPL-GW, MW-22-3, 4/24/2014 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	50	mg/L	0.10	0.018	EPA-200.7	0.027		1
Total Recoverable Magnesium	17	mg/L	0.050	0.020	EPA-200.7	0.028		1
Total Recoverable Sodium	35	mg/L	0.50	0.017	EPA-200.7	0.073		1
Total Recoverable Potassium	2.0	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	190	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	160	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	31	mg/L	0.50	0.067	EPA-300.0	0.11		3
Nitrate as N	7.8	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	34	mg/L	1.0	0.18	EPA-300.0	ND		3
pH	8.00	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	340	mg/L	20	20	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	2.8	ug/L	4.0	0.45	EPA-314.0	ND	J	7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	04/29/14	05/01/14	21:18	JRG	PE-OP2	1	BXD2424
2	SM-2320B	04/25/14	04/25/14	21:38	RML	MET-1	1	BXD2236
3	EPA-300.0	04/24/14	04/25/14	03:13	LD1	IC1	1	BXD2221
4	EPA-150.1	04/25/14	04/25/14	21:38	RML	MET-1	1	BXD2236
5	EPA-160.1	04/29/14	04/29/14	13:00	FRP	MANUAL	2	BXD2487
6	EPA-353.2	04/25/14	04/25/14	08:47	TDC	KONE-1	1	BXD2214
7	EPA-314.0	05/06/14	05/07/14	11:44	LD1	IC6	1	BXE0681

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3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409204-06	Client Sample Name: JPL-GW, MW-22-3, 4/24/2014 8:40:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0026	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Arsenic	1.2	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	2.5	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	22	ug/L	50	6.5	EPA-200.7	22	J	3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/24/14	04/25/14 00:49	OLH	KONE-1	1	BXD2208
2	EPA-200.8	04/29/14	05/02/14 00:07	SRM	PE-EL2	1	BXD2427
3	EPA-200.7	04/29/14	05/01/14 21:18	JRG	PE-OP2	1	BXD2424

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Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-07	Client Sample Name: JPL-GW, MW-22-2, 4/24/2014 9:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-07	Client Sample Name: JPL-GW, MW-22-2, 4/24/2014 9:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-07	Client Sample Name: JPL-GW, MW-22-2, 4/24/2014 9:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	109	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	103	%	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	04/25/14	04/25/14 13:25	MGC	MS-V5	1	BXD2012

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Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409204-07	Client Sample Name: JPL-GW, MW-22-2, 4/24/2014 9:15:00AM, 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	04/25/14	04/25/14 13:25	MGC	MS-V5	1	BXD2012

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3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409204-07		Client Sample Name: JPL-GW, MW-22-2, 4/24/2014 9:15:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	62	mg/L	0.10	0.018	EPA-200.7	0.027		1
Total Recoverable Magnesium	24	mg/L	0.050	0.020	EPA-200.7	0.028		1
Total Recoverable Sodium	32	mg/L	0.50	0.017	EPA-200.7	0.073		1
Total Recoverable Potassium	2.1	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	220	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	180	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	47	mg/L	0.50	0.067	EPA-300.0	0.11		3
Nitrate as N	7.8	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	47	mg/L	1.0	0.18	EPA-300.0	ND		3
pH	8.03	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	410	mg/L	20	20	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	2.9	ug/L	4.0	0.45	EPA-314.0	ND	J	7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	04/29/14	05/01/14	21:21	JRG	PE-OP2	1	BXD2424
2	SM-2320B	04/25/14	04/25/14	22:01	RML	MET-1	1	BXD2237
3	EPA-300.0	04/24/14	04/25/14	03:28	LD1	IC1	1	BXD2221
4	EPA-150.1	04/25/14	04/25/14	22:01	RML	MET-1	1	BXD2237
5	EPA-160.1	04/29/14	04/29/14	13:00	FRP	MANUAL	2	BXD2487
6	EPA-353.2	04/25/14	04/25/14	14:25	TDC	KONE-1	1	BXD2347
7	EPA-314.0	05/06/14	05/07/14	11:58	LD1	IC6	1	BXE0682

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409204-07	Client Sample Name: JPL-GW, MW-22-2, 4/24/2014 9:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0023	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Arsenic	1.2	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	1.7	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	53	ug/L	50	6.5	EPA-200.7	22		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/24/14	04/25/14 00:56	OLH	KONE-1	1	BXD2208
2	EPA-200.8	04/29/14	05/02/14 00:10	SRM	PE-EL2	1	BXD2427
3	EPA-200.7	04/29/14	05/01/14 21:21	JRG	PE-OP2	1	BXD2424

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Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-08	Client Sample Name: JPL-GW, MW-22-1, 4/24/2014 9:50:00AM, 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		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.41	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-08		Client Sample Name: JPL-GW, MW-22-1, 4/24/2014 9:50:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.23	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	1.4	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-08	Client Sample Name: JPL-GW, MW-22-1, 4/24/2014 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		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)	113	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/25/14	04/25/14 13:48	MGC	MS-V5	1	BXD2121

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Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409204-08	Client Sample Name: JPL-GW, MW-22-1, 4/24/2014 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	04/25/14	04/25/14 13:48	MGC	MS-V5	1	BXD2121

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Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409204-08		Client Sample Name: JPL-GW, MW-22-1, 4/24/2014 9:50:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	140	mg/L	0.10	0.018	EPA-200.7	0.027		1
Total Recoverable Magnesium	52	mg/L	0.050	0.020	EPA-200.7	0.028		1
Total Recoverable Sodium	35	mg/L	0.50	0.017	EPA-200.7	0.073		1
Total Recoverable Potassium	2.9	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	280	mg/L	10	10	SM-2320B	ND		2
Carbonate	ND	mg/L	5.0	5.0	SM-2320B	ND		2
Total Alkalinity as CaCO3	230	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	120	mg/L	0.50	0.067	EPA-300.0	0.11		3
Nitrate as N	12	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	180	mg/L	1.0	0.18	EPA-300.0	ND		3
pH	7.58	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	760	mg/L	50	50	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND	B04,V12	6
Perchlorate	3.0	ug/L	4.0	0.45	EPA-314.0	ND	J	7

Run #	Method	Prep Date	Run		Instrument	Dilution	QC	
			Date/Time	Analyst			Batch ID	
1	EPA-200.7	04/29/14	05/01/14 20:45	JRG	PE-OP2	1	BXD2424	
2	SM-2320B	04/25/14	04/25/14 22:12	RML	MET-1	2	BXD2237	
3	EPA-300.0	04/24/14	04/25/14 03:43	LD1	IC1	1	BXD2221	
4	EPA-150.1	04/25/14	04/25/14 22:12	RML	MET-1	1	BXD2237	
5	EPA-160.1	04/29/14	04/29/14 13:00	FRP	MANUAL	5	BXD2487	
6	EPA-353.2	04/25/14	04/25/14 09:02	TDC	KONE-1	1	BXD2214	
7	EPA-314.0	05/06/14	05/07/14 14:16	LD1	IC6	1	BXE0681	

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Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409204-08	Client Sample Name: JPL-GW, MW-22-1, 4/24/2014 9:50:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	0.73	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	590	ug/L	50	6.5	EPA-200.7	22		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/24/14	04/25/14 00:56	OLH	KONE-1	1	BXD2209
2	EPA-200.8	04/29/14	05/01/14 22:47	SRM	PE-EL2	1	BXD2427
3	EPA-200.7	04/29/14	05/01/14 20:45	JRG	PE-OP2	1	BXD2424

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Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-09	Client Sample Name: JPL-GW, MW-24-5, 4/24/2014 10:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-09	Client Sample Name: JPL-GW, MW-24-5, 4/24/2014 10:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-09	Client Sample Name: JPL-GW, MW-24-5, 4/24/2014 10:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	110	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/25/14	04/25/14 14:11	MGC	MS-V5	1	BXD1730

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409204-09	Client Sample Name: JPL-GW, MW-24-5, 4/24/2014 10:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/25/14	04/25/14 14:11	MGC	MS-V5	1	BXD1730

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409204-09		Client Sample Name: JPL-GW, MW-24-5, 4/24/2014 10:45:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	32	mg/L	0.10	0.018	EPA-200.7	0.027		1
Total Recoverable Magnesium	9.5	mg/L	0.050	0.020	EPA-200.7	0.028		1
Total Recoverable Sodium	38	mg/L	0.50	0.017	EPA-200.7	0.073		1
Total Recoverable Potassium	1.8	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	200	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	160	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	8.6	mg/L	0.50	0.067	EPA-300.0	0.11		3
Nitrate as N	0.99	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	19	mg/L	1.0	0.18	EPA-300.0	ND		3
pH	8.19	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	260	mg/L	20	20	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND	B04,V12	6
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-200.7	04/29/14	05/01/14	21:23	JRG	PE-OP2	1	BXD2424	
2	SM-2320B	04/25/14	04/25/14	22:18	RML	MET-1	1	BXD2237	
3	EPA-300.0	04/24/14	04/25/14	05:13	LD1	IC1	1	BXD2221	
4	EPA-150.1	04/25/14	04/25/14	22:18	RML	MET-1	1	BXD2237	
5	EPA-160.1	04/29/14	04/29/14	13:00	FRP	MANUAL	2	BXD2487	
6	EPA-353.2	04/25/14	04/25/14	09:02	TDC	KONE-1	1	BXD2214	
7	EPA-314.0	05/06/14	05/07/14	12:12	LD1	IC6	1	BXE0681	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409204-09	Client Sample Name: JPL-GW, MW-24-5, 4/24/2014 10:45:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0030	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Arsenic	2.4	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	2.5	ug/L	3.0	0.50	EPA-200.8	ND	J	3
Total Recoverable Iron	50	ug/L	50	6.5	EPA-200.7	22		4
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		3

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/24/14	04/25/14 00:56	OLH	KONE-1	1	BXD2209
2	EPA-200.8	04/29/14	05/02/14 00:13	EAR	PE-EL2	1	BXD2427
3	EPA-200.8	04/29/14	05/02/14 00:13	SRM	PE-EL2	1	BXD2427
4	EPA-200.7	04/29/14	05/01/14 21:23	JRG	PE-OP2	1	BXD2424

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Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-10	Client Sample Name: JPL-GW, MW-24-4, 4/24/2014 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		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: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-10	Client Sample Name: JPL-GW, MW-24-4, 4/24/2014 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	0.13	ug/L	0.50	0.068	EPA-524.2	ND	J	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-10	Client Sample Name: JPL-GW, MW-24-4, 4/24/2014 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	108	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/25/14	04/25/14 14:33	MGC	MS-V5	1	BXD1730

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409204-10	Client Sample Name: JPL-GW, MW-24-4, 4/24/2014 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	04/25/14	04/25/14 14:33	MGC	MS-V5	1	BXD1730

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409204-10		Client Sample Name: JPL-GW, MW-24-4, 4/24/2014 11:30:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	6.1	mg/L	0.10	0.018	EPA-200.7	0.027		1
Total Recoverable Magnesium	6.7	mg/L	0.050	0.020	EPA-200.7	0.028		1
Total Recoverable Sodium	34	mg/L	0.50	0.017	EPA-200.7	0.073		1
Total Recoverable Potassium	1.7	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	73	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	14	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	83	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	22	mg/L	0.50	0.067	EPA-300.0	0.11		3
Nitrate as N	0.12	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	3.2	mg/L	1.0	0.18	EPA-300.0	ND		3
pH	9.18	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	130	mg/L	10	10	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND	B04,V12	6
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	04/29/14	05/01/14	21:26	JRG	PE-OP2	1	BXD2424
2	SM-2320B	04/25/14	04/25/14	22:23	RML	MET-1	1	BXD2237
3	EPA-300.0	04/24/14	04/25/14	05:28	LD1	IC1	1	BXD2221
4	EPA-150.1	04/25/14	04/25/14	22:23	RML	MET-1	1	BXD2237
5	EPA-160.1	04/29/14	04/29/14	13:00	FRP	MANUAL	1	BXD2487
6	EPA-353.2	04/25/14	04/25/14	09:02	TDC	KONE-1	1	BXD2214
7	EPA-314.0	05/06/14	05/07/14	12:26	LD1	IC6	1	BXE0681

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409204-10	Client Sample Name: JPL-GW, MW-24-4, 4/24/2014 11:30:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Arsenic	1.3	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	0.60	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	84	ug/L	50	6.5	EPA-200.7	22		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/24/14	04/25/14 00:56	OLH	KONE-1	1	BXD2209
2	EPA-200.8	04/29/14	05/02/14 00:16	SRM	PE-EL2	1	BXD2427
3	EPA-200.7	04/29/14	05/01/14 21:26	JRG	PE-OP2	1	BXD2424

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-11	Client Sample Name: JPL-GW, MW-24-3, 4/24/2014 12:05:00PM, 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
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.11	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-11	Client Sample Name: JPL-GW, MW-24-3, 4/24/2014 12:05:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-11	Client Sample Name: JPL-GW, MW-24-3, 4/24/2014 12:05:00PM, 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		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)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/25/14	04/25/14 14:56	MGC	MS-V5	1	BXD1730

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409204-11	Client Sample Name: JPL-GW, MW-24-3, 4/24/2014 12:05:00PM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/25/14	04/25/14 14:56	MGC	MS-V5	1	BXD1730

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409204-11		Client Sample Name: JPL-GW, MW-24-3, 4/24/2014 12:05:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	31	mg/L	0.10	0.018	EPA-200.7	0.027		1
Total Recoverable Magnesium	14	mg/L	0.050	0.020	EPA-200.7	0.028		1
Total Recoverable Sodium	44	mg/L	0.50	0.017	EPA-200.7	0.073		1
Total Recoverable Potassium	2.1	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	200	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	170	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	31	mg/L	0.50	0.067	EPA-300.0	0.11		3
Nitrate as N	0.037	mg/L	0.10	0.025	EPA-300.0	ND	J	3
Sulfate	20	mg/L	1.0	0.18	EPA-300.0	ND		3
pH	8.26	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	270	mg/L	20	20	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND	B04,V12	6
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	04/29/14	05/01/14	21:28	JRG	PE-OP2	1	BXD2424
2	SM-2320B	04/25/14	04/25/14	22:29	RML	MET-1	1	BXD2237
3	EPA-300.0	04/24/14	04/25/14	05:43	LD1	IC1	1	BXD2221
4	EPA-150.1	04/25/14	04/25/14	22:29	RML	MET-1	1	BXD2237
5	EPA-160.1	04/29/14	04/29/14	13:00	FRP	MANUAL	2	BXD2487
6	EPA-353.2	04/25/14	04/25/14	09:02	TDC	KONE-1	1	BXD2214
7	EPA-314.0	05/06/14	05/07/14	12:40	LD1	IC6	1	BXE0681

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409204-11	Client Sample Name: JPL-GW, MW-24-3, 4/24/2014 12:05:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00076	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Arsenic	2.2	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	62	ug/L	50	6.5	EPA-200.7	22		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/24/14	04/25/14 00:56	OLH	KONE-1	1	BXD2209
2	EPA-200.8	04/29/14	05/02/14 00:20	SRM	PE-EL2	1	BXD2427
3	EPA-200.7	04/29/14	05/01/14 21:28	JRG	PE-OP2	1	BXD2424

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-12	Client Sample Name: JPL-GW, MW-24-2, 4/24/2014 12:40:00PM, 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	0.88	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.68	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: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-12	Client Sample Name: JPL-GW, MW-24-2, 4/24/2014 12:40:00PM, 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
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: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-12	Client Sample Name: JPL-GW, MW-24-2, 4/24/2014 12:40:00PM, 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		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)	113	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	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	04/25/14	04/25/14 15:18	MGC	MS-V5	1	BXD1730

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409204-12	Client Sample Name: JPL-GW, MW-24-2, 4/24/2014 12:40:00PM, 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	04/25/14	04/25/14 15:18	MGC	MS-V5	1	BXD1730

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409204-12		Client Sample Name: JPL-GW, MW-24-2, 4/24/2014 12:40:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	49	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	16	mg/L	0.050	0.020	EPA-200.7	0.039		1
Total Recoverable Sodium	45	mg/L	0.50	0.017	EPA-200.7	0.026		1
Total Recoverable Potassium	3.0	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	200	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	170	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	50	mg/L	0.50	0.067	EPA-300.0	0.12		3
Nitrate as N	1.6	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	27	mg/L	1.0	0.18	EPA-300.0	ND		3
pH	7.89	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	330	mg/L	20	20	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	8.5	ug/L	4.0	0.45	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-200.7	04/29/14	05/01/14 17:38	JRG	PE-OP2	1	BXD2426
2	SM-2320B	04/25/14	04/25/14 22:35	RML	MET-1	1	BXD2237
3	EPA-300.0	04/24/14	04/25/14 05:58	LD1	IC1	1	BXD2222
4	EPA-150.1	04/25/14	04/25/14 22:35	RML	MET-1	1	BXD2237
5	EPA-160.1	04/29/14	04/29/14 13:00	FRP	MANUAL	2	BXD2487
6	EPA-353.2	04/25/14	04/25/14 10:05	TDC	KONE-1	1	BXD2215
7	EPA-314.0	05/06/14	05/07/14 12:53	LD1	IC6	1	BXE0681

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409204-12	Client Sample Name: JPL-GW, MW-24-2, 4/24/2014 12:40:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0027	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Arsenic	2.2	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	2.0	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	29	ug/L	50	6.5	EPA-200.7	20	J	3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/24/14	04/25/14 01:02	OLH	KONE-1	1	BXD2209
2	EPA-200.8	04/29/14	05/02/14 09:33	SRM	PE-EL2	1	BXD2429
3	EPA-200.7	04/29/14	05/01/14 17:38	JRG	PE-OP2	1	BXD2426

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-13 Client Sample Name: JPL-GW, DUP-2-2Q14, 4/24/2014 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
Bromodichloromethane	0.79	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.66	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	0.54	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: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-13	Client Sample Name: JPL-GW, DUP-2-2Q14, 4/24/2014 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
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: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-13	Client Sample Name: JPL-GW, DUP-2-2Q14, 4/24/2014 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		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)	112	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/25/14	04/25/14 15:41	MGC	MS-V5	1	BXD1730

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409204-13	Client Sample Name: JPL-GW, DUP-2-2Q14, 4/24/2014 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	04/25/14	04/25/14 15:41	MGC	MS-V5	1	BXD1730

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409204-13		Client Sample Name: JPL-GW, DUP-2-2Q14, 4/24/2014 1:00:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	48	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	16	mg/L	0.050	0.020	EPA-200.7	ND		1
Total Recoverable Sodium	43	mg/L	0.50	0.017	EPA-200.7	0.074		1
Total Recoverable Potassium	3.0	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	200	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	170	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	50	mg/L	0.50	0.067	EPA-300.0	0.12		3
Nitrate as N	1.8	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	27	mg/L	1.0	0.18	EPA-300.0	ND		3
pH	7.88	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	340	mg/L	20	20	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND	V12	6
Perchlorate	8.1	ug/L	4.0	0.45	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	04/30/14	05/05/14	16:20	JRG	PE-OP2	1	BXD2585
2	SM-2320B	04/25/14	04/25/14	22:41	RML	MET-1	1	BXD2237
3	EPA-300.0	04/24/14	04/25/14	06:13	LD1	IC1	1	BXD2222
4	EPA-150.1	04/25/14	04/25/14	22:41	RML	MET-1	1	BXD2237
5	EPA-160.1	04/29/14	04/29/14	13:40	FRP	MANUAL	2	BXD2488
6	EPA-353.2	04/25/14	04/25/14	09:02	TDC	KONE-1	1	BXD2215
7	EPA-314.0	05/06/14	05/07/14	13:07	LD1	IC6	1	BXE0681

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409204-13	Client Sample Name: JPL-GW, DUP-2-2Q14, 4/24/2014 1:00:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0029	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Arsenic	2.5	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	2.4	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	45	ug/L	50	6.5	EPA-200.7	ND	J	3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/24/14	04/25/14 01:02	OLH	KONE-1	1	BXD2209
2	EPA-200.8	04/29/14	05/02/14 09:36	SRM	PE-EL2	1	BXD2429
3	EPA-200.7	04/30/14	05/05/14 16:20	JRG	PE-OP2	1	BXD2585

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Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-14	Client Sample Name: JPL-GW, MW-24-1, 4/24/2014 1:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	5.9	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	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: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	1409204-14	Client Sample Name:	JPL-GW, MW-24-1, 4/24/2014 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	
Tetrachloroethene	0.23	ug/L	0.50	0.13	EPA-524.2	ND	J	1	
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1	
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1	
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1	
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1	
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1	
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1	
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1	
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1	
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1	
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409204-14	Client Sample Name: JPL-GW, MW-24-1, 4/24/2014 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		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)	111	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	88.7	%	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	04/25/14	04/25/14 16:03	MGC	MS-V5	1	BXD1730

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409204-14	Client Sample Name: JPL-GW, MW-24-1, 4/24/2014 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	04/25/14	04/25/14 16:03	MGC	MS-V5	1	BXD1730

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Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID:	1409204-14	Client Sample Name:	JPL-GW, MW-24-1, 4/24/2014 1:45:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	80	mg/L	0.10	0.018	EPA-200.7	ND		1	
Total Recoverable Magnesium	26	mg/L	0.050	0.020	EPA-200.7	ND		1	
Total Recoverable Sodium	43	mg/L	0.50	0.017	EPA-200.7	0.10		1	
Total Recoverable Potassium	4.5	mg/L	1.0	0.10	EPA-200.7	0.32		1	
Bicarbonate	250	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	210	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	82	mg/L	0.50	0.067	EPA-300.0	0.22		3	
Nitrate as N	1.3	mg/L	0.10	0.025	EPA-300.0	ND		4	
Sulfate	44	mg/L	1.0	0.18	EPA-300.0	ND		3	
pH	7.59	pH Units	0.05	0.05	EPA-150.1		S05	5	
Total Dissolved Solids @ 180 C	430	mg/L	33	33	EPA-160.1	ND		6	
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		7	
Perchlorate	45	ug/L	20	2.2	EPA-314.0	ND	A01	8	
ortho-Phosphate as P	0.016	mg/L	0.020	0.0040	EPA-365.1	0.0059	J	9	

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	04/30/14	05/12/14 19:07	JRG	PE-OP2	1	BXE0839
2	SM-2320B	04/25/14	04/25/14 22:46	RML	MET-1	1	BXD2237
3	EPA-300.0	05/08/14	05/09/14 05:02	LD1	IC2	1	BXE0793
4	EPA-300.0	04/24/14	04/25/14 06:59	OLH	IC1	1	BXD2222
5	EPA-150.1	04/25/14	04/25/14 22:46	RML	MET-1	1	BXD2237
6	EPA-160.1	04/29/14	04/29/14 13:40	FRP	MANUAL	3.333	BXD2488
7	EPA-353.2	04/25/14	04/25/14 08:35	TDC	KONE-1	1	BXD2214
8	EPA-314.0	05/06/14	05/07/14 15:56	OLH	IC6	5	BXE0681
9	EPA-365.1	04/25/14	04/25/14 09:54	TDC	KONE-1	1	BXD2213

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409204-14	Client Sample Name: JPL-GW, MW-24-1, 4/24/2014 1:45:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0063	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	16	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	200	ug/L	50	6.5	EPA-200.7	ND		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/24/14	04/25/14 01:02	OLH	KONE-1	1	BXD2209
2	EPA-200.8	04/29/14	05/02/14 09:57	SRM	PE-EL2	1	BXD2429
3	EPA-200.7	04/30/14	05/05/14 16:38	JRG	PE-OP2	1	BXD2585

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Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD1730						
Benzene	BXD1730-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXD1730-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXD1730-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXD1730-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXD1730-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXD1730-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXD1730-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXD1730-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXD1730-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXD1730-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXD1730-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXD1730-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXD1730-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXD1730-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXD1730-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXD1730-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BXD1730-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXD1730-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXD1730-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXD1730-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXD1730-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXD1730-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXD1730-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXD1730-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXD1730-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXD1730-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXD1730-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXD1730-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXD1730-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXD1730-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXD1730-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXD1730-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXD1730-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXD1730-BLK1	ND	ug/L	0.50	0.14	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD1730						
trans-1,3-Dichloropropene	BXD1730-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXD1730-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXD1730-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXD1730-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXD1730-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXD1730-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXD1730-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXD1730-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXD1730-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXD1730-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXD1730-BLK1	ND	ug/L	0.50	0.18	
1,1,1,2,2-Tetrachloroethane	BXD1730-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethane	BXD1730-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXD1730-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXD1730-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXD1730-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BXD1730-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXD1730-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXD1730-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXD1730-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXD1730-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXD1730-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXD1730-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXD1730-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXD1730-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXD1730-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXD1730-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXD1730-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXD1730-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXD1730-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXD1730-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXD1730-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXD1730-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXD1730-BLK1	ND	ug/L	4.0	0.97	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
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QC Batch ID: BXD1730

Ethyl t-butyl ether	BXD1730-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXD1730-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXD1730-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXD1730-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXD1730-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXD1730-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXD1730-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXD1730-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXD1730-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXD1730-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXD1730-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXD1730-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXD1730-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BXD1730-BLK1	105	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BXD1730-BLK1	101	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BXD1730-BLK1	92.7	%	80 - 120 (LCL - UCL)		

QC Batch ID: BXD2012

Benzene	BXD2012-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXD2012-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXD2012-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXD2012-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXD2012-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXD2012-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXD2012-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXD2012-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXD2012-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXD2012-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXD2012-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXD2012-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXD2012-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXD2012-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXD2012-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXD2012-BLK1	ND	ug/L	0.50	0.15	

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Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2012						
Dibromochloromethane	BXD2012-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXD2012-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXD2012-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXD2012-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXD2012-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXD2012-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXD2012-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXD2012-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXD2012-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXD2012-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXD2012-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXD2012-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXD2012-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXD2012-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXD2012-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXD2012-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXD2012-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXD2012-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	BXD2012-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXD2012-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXD2012-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXD2012-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXD2012-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXD2012-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXD2012-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXD2012-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXD2012-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXD2012-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXD2012-BLK1	ND	ug/L	0.50	0.18	
1,1,1,2,2-Tetrachloroethane	BXD2012-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BXD2012-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXD2012-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXD2012-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXD2012-BLK1	ND	ug/L	0.50	0.19	

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3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2012						
1,1,1-Trichloroethane	BXD2012-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXD2012-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXD2012-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXD2012-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXD2012-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXD2012-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXD2012-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXD2012-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXD2012-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXD2012-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXD2012-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXD2012-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXD2012-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXD2012-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXD2012-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXD2012-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXD2012-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXD2012-BLK1	ND	ug/L	4.0	0.97	
Ethyl t-butyl ether	BXD2012-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXD2012-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXD2012-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXD2012-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXD2012-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXD2012-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXD2012-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXD2012-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXD2012-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXD2012-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXD2012-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXD2012-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXD2012-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BXD2012-BLK1	106	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BXD2012-BLK1	98.2	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BXD2012-BLK1	92.1	%	80 - 120 (LCL - UCL)		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2121						
Benzene	BXD2121-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXD2121-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXD2121-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXD2121-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXD2121-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXD2121-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXD2121-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXD2121-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXD2121-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXD2121-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXD2121-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXD2121-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXD2121-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXD2121-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXD2121-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXD2121-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BXD2121-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXD2121-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXD2121-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXD2121-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXD2121-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXD2121-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXD2121-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXD2121-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXD2121-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXD2121-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXD2121-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXD2121-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXD2121-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXD2121-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXD2121-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXD2121-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXD2121-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXD2121-BLK1	ND	ug/L	0.50	0.14	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2121						
trans-1,3-Dichloropropene	BXD2121-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXD2121-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXD2121-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXD2121-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXD2121-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXD2121-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXD2121-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXD2121-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXD2121-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXD2121-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXD2121-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BXD2121-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BXD2121-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXD2121-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXD2121-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXD2121-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BXD2121-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXD2121-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXD2121-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXD2121-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXD2121-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXD2121-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXD2121-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXD2121-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXD2121-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXD2121-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXD2121-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXD2121-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXD2121-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXD2121-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXD2121-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXD2121-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXD2121-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXD2121-BLK1	ND	ug/L	4.0	0.97	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2121						
Ethyl t-butyl ether	BXD2121-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXD2121-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXD2121-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXD2121-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXD2121-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXD2121-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXD2121-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXD2121-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXD2121-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXD2121-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXD2121-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXD2121-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXD2121-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BXD2121-BLK1	106	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BXD2121-BLK1	100	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BXD2121-BLK1	87.8	%	80 - 120 (LCL - UCL)		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXD1730										
Benzene	BXD1730-BS1	LCS	23.120	25.000	ug/L	92.5		70 - 130		
Bromodichloromethane	BXD1730-BS1	LCS	30.330	25.000	ug/L	121		70 - 130		
Chlorobenzene	BXD1730-BS1	LCS	25.220	25.000	ug/L	101		70 - 130		
Chloroethane	BXD1730-BS1	LCS	26.070	25.000	ug/L	104		70 - 130		
1,4-Dichlorobenzene	BXD1730-BS1	LCS	28.150	25.000	ug/L	113		70 - 130		
1,1-Dichloroethane	BXD1730-BS1	LCS	24.540	25.000	ug/L	98.2		70 - 130		
1,1-Dichloroethene	BXD1730-BS1	LCS	25.280	25.000	ug/L	101		70 - 130		
Toluene	BXD1730-BS1	LCS	24.470	25.000	ug/L	97.9		70 - 130		
Trichloroethene	BXD1730-BS1	LCS	29.320	25.000	ug/L	117		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXD1730-BS1	LCS	10.560	10.000	ug/L	106		75 - 125		
Toluene-d8 (Surrogate)	BXD1730-BS1	LCS	9.8400	10.000	ug/L	98.4		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXD1730-BS1	LCS	10.960	10.000	ug/L	110		80 - 120		
QC Batch ID: BXD2012										
Benzene	BXD2012-BS1	LCS	22.700	25.000	ug/L	90.8		70 - 130		
Bromodichloromethane	BXD2012-BS1	LCS	32.400	25.000	ug/L	130		70 - 130		
Chlorobenzene	BXD2012-BS1	LCS	26.040	25.000	ug/L	104		70 - 130		
Chloroethane	BXD2012-BS1	LCS	26.090	25.000	ug/L	104		70 - 130		
1,4-Dichlorobenzene	BXD2012-BS1	LCS	29.680	25.000	ug/L	119		70 - 130		
1,1-Dichloroethane	BXD2012-BS1	LCS	25.250	25.000	ug/L	101		70 - 130		
1,1-Dichloroethene	BXD2012-BS1	LCS	26.500	25.000	ug/L	106		70 - 130		
Toluene	BXD2012-BS1	LCS	25.320	25.000	ug/L	101		70 - 130		
Trichloroethene	BXD2012-BS1	LCS	28.690	25.000	ug/L	115		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXD2012-BS1	LCS	10.750	10.000	ug/L	108		75 - 125		
Toluene-d8 (Surrogate)	BXD2012-BS1	LCS	10.210	10.000	ug/L	102		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXD2012-BS1	LCS	11.540	10.000	ug/L	115		80 - 120		
QC Batch ID: BXD2121										
Benzene	BXD2121-BS1	LCS	24.030	25.000	ug/L	96.1		70 - 130		
Bromodichloromethane	BXD2121-BS1	LCS	31.920	25.000	ug/L	128		70 - 130		
Chlorobenzene	BXD2121-BS1	LCS	26.590	25.000	ug/L	106		70 - 130		
Chloroethane	BXD2121-BS1	LCS	26.270	25.000	ug/L	105		70 - 130		
1,4-Dichlorobenzene	BXD2121-BS1	LCS	30.530	25.000	ug/L	122		70 - 130		
1,1-Dichloroethane	BXD2121-BS1	LCS	25.740	25.000	ug/L	103		70 - 130		
1,1-Dichloroethene	BXD2121-BS1	LCS	27.340	25.000	ug/L	109		70 - 130		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXD2121										
Toluene	BXD2121-BS1	LCS	26.670	25.000	ug/L	107		70 - 130		
Trichloroethene	BXD2121-BS1	LCS	28.740	25.000	ug/L	115		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXD2121-BS1	LCS	11.230	10.000	ug/L	112		75 - 125		
Toluene-d8 (Surrogate)	BXD2121-BS1	LCS	9.9800	10.000	ug/L	99.8		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXD2121-BS1	LCS	11.610	10.000	ug/L	116		80 - 120		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
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 Qualls. Includes QC Batch ID: BXD1730 and Used client sample: Y - Description: MW-14-4, 04/21/2014 11:45.

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Qualls. Includes QC Batch ID: BXD2012 and Used client sample: Y - Description: MW-25-3, 04/23/2014 13:20.

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
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 Quails. Includes QC Batch ID: BXD2012 and Used client sample: Y - Description: MW-25-3, 04/23/2014 13:20.

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quails. Includes QC Batch ID: BXD2121 and Used client sample: Y - Description: MW-22-1, 04/24/2014 09:50.

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
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QC Batch ID: BXD1730

Chloroacetonitrile	BXD1730-BLK1	0	ug/L			
1-Chlorobutane	BXD1730-BLK1	0	ug/L			
1,1-Dichloropropanone	BXD1730-BLK1	0	ug/L			
Methyl acrylate	BXD1730-BLK1	0	ug/L			
Nitrobenzene	BXD1730-BLK1	0	ug/L			
2-Nitropropane	BXD1730-BLK1	0	ug/L			

QC Batch ID: BXD2012

Chloroacetonitrile	BXD2012-BLK1	0	ug/L			
1-Chlorobutane	BXD2012-BLK1	0	ug/L			
1,1-Dichloropropanone	BXD2012-BLK1	0	ug/L			
Methyl acrylate	BXD2012-BLK1	0	ug/L			
Nitrobenzene	BXD2012-BLK1	0	ug/L			
2-Nitropropane	BXD2012-BLK1	0	ug/L			

QC Batch ID: BXD2121

Chloroacetonitrile	BXD2121-BLK1	0	ug/L			
1-Chlorobutane	BXD2121-BLK1	0	ug/L			
1,1-Dichloropropanone	BXD2121-BLK1	0	ug/L			
Methyl acrylate	BXD2121-BLK1	0	ug/L			
Nitrobenzene	BXD2121-BLK1	0	ug/L			
2-Nitropropane	BXD2121-BLK1	0	ug/L			

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2213						
ortho-Phosphate as P	BXD2213-BLK1	0.0058620	mg/L	0.020	0.0040	J
QC Batch ID: BXD2214						
Nitrite as N	BXD2214-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXD2215						
Nitrite as N	BXD2215-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXD2217						
Nitrite as N	BXD2217-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXD2221						
Chloride	BXD2221-BLK1	0.10700	mg/L	0.50	0.067	J
Nitrate as N	BXD2221-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXD2221-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXD2222						
Chloride	BXD2222-BLK1	0.12100	mg/L	0.50	0.067	J
Nitrate as N	BXD2222-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXD2222-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXD2236						
Bicarbonate	BXD2236-BLK1	ND	mg/L	5.0	5.0	
Carbonate	BXD2236-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	BXD2236-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXD2237						
Bicarbonate	BXD2237-BLK1	ND	mg/L	5.0	5.0	
Carbonate	BXD2237-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	BXD2237-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXD2347						
Nitrite as N	BXD2347-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXD2424						
Total Recoverable Calcium	BXD2424-BLK1	0.027467	mg/L	0.10	0.014	J
Total Recoverable Magnesium	BXD2424-BLK1	0.027593	mg/L	0.050	0.019	J
Total Recoverable Sodium	BXD2424-BLK1	0.072857	mg/L	0.50	0.017	J
Total Recoverable Potassium	BXD2424-BLK1	ND	mg/L	1.0	0.10	

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2426						
Total Recoverable Calcium	BXD2426-BLK1	ND	mg/L	0.10	0.014	
Total Recoverable Magnesium	BXD2426-BLK1	0.038594	mg/L	0.050	0.019	J
Total Recoverable Sodium	BXD2426-BLK1	0.026463	mg/L	0.50	0.017	J
Total Recoverable Potassium	BXD2426-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXD2486						
Total Dissolved Solids @ 180 C	BXD2486-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXD2487						
Total Dissolved Solids @ 180 C	BXD2487-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXD2488						
Total Dissolved Solids @ 180 C	BXD2488-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXD2585						
Total Recoverable Calcium	BXD2585-BLK1	0.017426	mg/L	0.10	0.014	J
Total Recoverable Magnesium	BXD2585-BLK1	ND	mg/L	0.050	0.019	
Total Recoverable Sodium	BXD2585-BLK1	0.073667	mg/L	0.50	0.017	J
Total Recoverable Potassium	BXD2585-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXE0680						
Perchlorate	BXE0680-BLK1	ND	ug/L	4.0	0.45	
QC Batch ID: BXE0681						
Perchlorate	BXE0681-BLK1	ND	ug/L	4.0	0.45	
QC Batch ID: BXE0682						
Perchlorate	BXE0682-BLK1	ND	ug/L	4.0	0.45	
QC Batch ID: BXE0793						
Chloride	BXE0793-BLK1	0.22100	mg/L	0.50	0.067	J
Sulfate	BXE0793-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXE0839						
Total Recoverable Calcium	BXE0839-BLK1	ND	mg/L	0.10	0.014	
Total Recoverable Magnesium	BXE0839-BLK1	ND	mg/L	0.050	0.019	
Total Recoverable Sodium	BXE0839-BLK1	0.10017	mg/L	0.50	0.017	J
Total Recoverable Potassium	BXE0839-BLK1	0.32070	mg/L	1.0	0.10	J

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXD2213										
ortho-Phosphate as P	BXD2213-BS1	LCS	0.20788	0.20000	mg/L	104		90 - 110		
QC Batch ID: BXD2214										
Nitrite as N	BXD2214-BS1	LCS	0.50100	0.50000	mg/L	100		90 - 110		
QC Batch ID: BXD2215										
Nitrite as N	BXD2215-BS1	LCS	0.50344	0.50000	mg/L	101		90 - 110		
QC Batch ID: BXD2217										
Nitrite as N	BXD2217-BS1	LCS	0.50131	0.50000	mg/L	100		90 - 110		
QC Batch ID: BXD2221										
Chloride	BXD2221-BS1	LCS	47.762	50.000	mg/L	95.5		90 - 110		
Nitrate as N	BXD2221-BS1	LCS	5.0740	5.0000	mg/L	101		90 - 110		
Sulfate	BXD2221-BS1	LCS	97.284	100.00	mg/L	97.3		90 - 110		
QC Batch ID: BXD2222										
Chloride	BXD2222-BS1	LCS	47.883	50.000	mg/L	95.8		90 - 110		
Nitrate as N	BXD2222-BS1	LCS	5.0140	5.0000	mg/L	100		90 - 110		
Sulfate	BXD2222-BS1	LCS	97.787	100.00	mg/L	97.8		90 - 110		
QC Batch ID: BXD2236										
Total Alkalinity as CaCO3	BXD2236-BS3	LCS	95.840	100.00	mg/L	95.8		90 - 110		
pH	BXD2236-BS2	LCS	7.0400	7.0000	pH Units	101		95 - 105		
QC Batch ID: BXD2237										
Total Alkalinity as CaCO3	BXD2237-BS3	LCS	101.62	100.00	mg/L	102		90 - 110		
pH	BXD2237-BS2	LCS	7.0400	7.0000	pH Units	101		95 - 105		
QC Batch ID: BXD2347										
Nitrite as N	BXD2347-BS1	LCS	0.50217	0.50000	mg/L	100		90 - 110		
QC Batch ID: BXD2424										
Total Recoverable Calcium	BXD2424-BS1	LCS	9.9995	10.000	mg/L	100		85 - 115		
Total Recoverable Magnesium	BXD2424-BS1	LCS	10.609	10.000	mg/L	106		85 - 115		
Total Recoverable Sodium	BXD2424-BS1	LCS	10.089	10.000	mg/L	101		85 - 115		
Total Recoverable Potassium	BXD2424-BS1	LCS	9.9927	10.000	mg/L	99.9		85 - 115		
QC Batch ID: BXD2426										
Total Recoverable Calcium	BXD2426-BS1	LCS	10.008	10.000	mg/L	100		85 - 115		
Total Recoverable Magnesium	BXD2426-BS1	LCS	10.600	10.000	mg/L	106		85 - 115		
Total Recoverable Sodium	BXD2426-BS1	LCS	10.201	10.000	mg/L	102		85 - 115		

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3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXD2426										
Total Recoverable Potassium	BXD2426-BS1	LCS	10.103	10.000	mg/L	101		85 - 115		
QC Batch ID: BXD2486										
Total Dissolved Solids @ 180 C	BXD2486-BS1	LCS	565.00	586.00	mg/L	96.4		90 - 110		
QC Batch ID: BXD2487										
Total Dissolved Solids @ 180 C	BXD2487-BS1	LCS	570.00	586.00	mg/L	97.3		90 - 110		
QC Batch ID: BXD2488										
Total Dissolved Solids @ 180 C	BXD2488-BS1	LCS	540.00	586.00	mg/L	92.2		90 - 110		
QC Batch ID: BXD2585										
Total Recoverable Calcium	BXD2585-BS1	LCS	9.9552	10.000	mg/L	99.6		85 - 115		
Total Recoverable Magnesium	BXD2585-BS1	LCS	10.065	10.000	mg/L	101		85 - 115		
Total Recoverable Sodium	BXD2585-BS1	LCS	10.142	10.000	mg/L	101		85 - 115		
Total Recoverable Potassium	BXD2585-BS1	LCS	9.9412	10.000	mg/L	99.4		85 - 115		
QC Batch ID: BXE0680										
Perchlorate	BXE0680-BS1	LCS	10.559	10.000	ug/L	106		85 - 115		
QC Batch ID: BXE0681										
Perchlorate	BXE0681-BS1	LCS	10.070	10.000	ug/L	101		85 - 115		
QC Batch ID: BXE0682										
Perchlorate	BXE0682-BS1	LCS	10.226	10.000	ug/L	102		85 - 115		
QC Batch ID: BXE0793										
Chloride	BXE0793-BS1	LCS	52.219	50.000	mg/L	104		90 - 110		
Sulfate	BXE0793-BS1	LCS	105.39	100.00	mg/L	105		90 - 110		
QC Batch ID: BXE0839										
Total Recoverable Calcium	BXE0839-BS1	LCS	10.213	10.000	mg/L	102		85 - 115		
Total Recoverable Magnesium	BXE0839-BS1	LCS	10.695	10.000	mg/L	107		85 - 115		
Total Recoverable Sodium	BXE0839-BS1	LCS	10.286	10.000	mg/L	103		85 - 115		
Total Recoverable Potassium	BXE0839-BS1	LCS	10.349	10.000	mg/L	103		85 - 115		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
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 multiple QC batches (BXD2213 to BXD2236) with various chemical analyses and their results.

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes QC Batch IDs BXD2236, BXD2237, BXD2347, BXD2424, and BXD2426.

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Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes multiple QC batches (BXD2426, BXD2486, BXD2487, BXD2488, BXD2585, BXE0680, BXE0681, BXE0682, BXE0793) and their respective test results.

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXE0793		Used client sample: N								
Chloride	DUP	1410326-01	54.110	54.226		mg/L	0.2		10	
	MS	1410326-01	54.110	107.99	50.505	mg/L		107		80 - 120
	MSD	1410326-01	54.110	107.93	50.505	mg/L	0.1	107	10	80 - 120
Sulfate	DUP	1410326-01	66.467	66.347		mg/L	0.2		10	
	MS	1410326-01	66.467	178.66	101.01	mg/L		111		80 - 120
	MSD	1410326-01	66.467	178.93	101.01	mg/L	0.2	111	10	80 - 120
QC Batch ID: BXE0839		Used client sample: N								
Total Recoverable Calcium	DUP	1409849-01	21.665	21.316		mg/L	1.6		20	
	MS	1409849-01	21.665	31.817	10.000	mg/L		102		75 - 125
	MSD	1409849-01	21.665	31.052	10.000	mg/L	2.4	93.9	20	75 - 125
Total Recoverable Magnesium	DUP	1409849-01	6.1147	5.9853		mg/L	2.1		20	
	MS	1409849-01	6.1147	16.597	10.000	mg/L		105		75 - 125
	MSD	1409849-01	6.1147	16.635	10.000	mg/L	0.2	105	20	75 - 125
Total Recoverable Sodium	DUP	1409849-01	41.262	40.777		mg/L	1.2		20	
	MS	1409849-01	41.262	51.246	10.000	mg/L		99.8		75 - 125
	MSD	1409849-01	41.262	49.889	10.000	mg/L	2.7	86.3	20	75 - 125
Total Recoverable Potassium	DUP	1409849-01	2.1754	2.1088		mg/L	3.1		20	
	MS	1409849-01	2.1754	12.353	10.000	mg/L		102		75 - 125
	MSD	1409849-01	2.1754	12.216	10.000	mg/L	1.1	100	20	75 - 125

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2208						
Hexavalent Chromium	BXD2208-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BXD2209						
Hexavalent Chromium	BXD2209-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BXD2424						
Total Recoverable Iron	BXD2424-BLK1	21.759	ug/L	50	6.5	J
QC Batch ID: BXD2426						
Total Recoverable Iron	BXD2426-BLK1	20.003	ug/L	50	6.5	J
QC Batch ID: BXD2427						
Total Recoverable Arsenic	BXD2427-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	BXD2427-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	BXD2427-BLK1	ND	ug/L	1.0	0.10	
QC Batch ID: BXD2429						
Total Recoverable Arsenic	BXD2429-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	BXD2429-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	BXD2429-BLK1	ND	ug/L	1.0	0.10	
QC Batch ID: BXD2585						
Total Recoverable Iron	BXD2585-BLK1	ND	ug/L	50	6.5	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXD2208										
Hexavalent Chromium	BXD2208-BS1	LCS	0.049500	0.050000	mg/L	99.0		85 - 115		
QC Batch ID: BXD2209										
Hexavalent Chromium	BXD2209-BS1	LCS	0.049356	0.050000	mg/L	98.7		85 - 115		
QC Batch ID: BXD2424										
Total Recoverable Iron	BXD2424-BS1	LCS	1075.0	1000.0	ug/L	108		85 - 115		
QC Batch ID: BXD2426										
Total Recoverable Iron	BXD2426-BS1	LCS	1052.4	1000.0	ug/L	105		85 - 115		
QC Batch ID: BXD2427										
Total Recoverable Arsenic	BXD2427-BS1	LCS	99.471	100.00	ug/L	99.5		85 - 115		
Total Recoverable Chromium	BXD2427-BS1	LCS	42.175	40.000	ug/L	105		85 - 115		
Total Recoverable Lead	BXD2427-BS1	LCS	108.15	100.00	ug/L	108		85 - 115		
QC Batch ID: BXD2429										
Total Recoverable Arsenic	BXD2429-BS1	LCS	100.99	100.00	ug/L	101		85 - 115		
Total Recoverable Chromium	BXD2429-BS1	LCS	41.249	40.000	ug/L	103		85 - 115		
Total Recoverable Lead	BXD2429-BS1	LCS	111.86	100.00	ug/L	112		85 - 115		
QC Batch ID: BXD2585										
Total Recoverable Iron	BXD2585-BS1	LCS	1033.1	1000.0	ug/L	103		85 - 115		

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
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	
QC Batch ID: BXD2208		Used client sample: Y - Description: MW-22-5, 04/24/2014 07:20								
Hexavalent Chromium	DUP	1409204-04	ND	ND		mg/L			10	
	MS	1409204-04	ND	0.038656	0.052632	mg/L		73.4		85 - 115 Q03
	MSD	1409204-04	ND	0.038177	0.052632	mg/L	1.2	72.5	10	85 - 115 Q03
QC Batch ID: BXD2209		Used client sample: Y - Description: MW-22-1, 04/24/2014 09:50								
Hexavalent Chromium	DUP	1409204-08	ND	ND		mg/L			10	
	MS	1409204-08	ND	0.052193	0.052632	mg/L		99.2		85 - 115
	MSD	1409204-08	ND	0.051833	0.052632	mg/L	0.7	98.5	10	85 - 115
QC Batch ID: BXD2424		Used client sample: Y - Description: MW-22-1, 04/24/2014 09:50								
Total Recoverable Iron	DUP	1409204-08	588.74	604.24		ug/L	2.6		20	
	MS	1409204-08	588.74	1663.6	1000.0	ug/L		107		75 - 125
	MSD	1409204-08	588.74	1695.6	1000.0	ug/L	1.9	111	20	75 - 125
QC Batch ID: BXD2426		Used client sample: Y - Description: MW-20-4, 04/25/2014 07:30								
Total Recoverable Iron	DUP	1409260-04	21.204	ND		ug/L			20	
	MS	1409260-04	21.204	1152.0	1000.0	ug/L		113		75 - 125
	MSD	1409260-04	21.204	1119.0	1000.0	ug/L	2.9	110	20	75 - 125
QC Batch ID: BXD2427		Used client sample: Y - Description: MW-22-1, 04/24/2014 09:50								
Total Recoverable Arsenic	DUP	1409204-08	ND	ND		ug/L			20	
	MS	1409204-08	ND	108.10	100.00	ug/L		108		70 - 130
	MSD	1409204-08	ND	105.07	100.00	ug/L	2.8	105	20	70 - 130
Total Recoverable Chromium	DUP	1409204-08	0.72700	0.63800		ug/L	13.0		20	J
	MS	1409204-08	0.72700	40.496	40.000	ug/L		99.4		70 - 130
	MSD	1409204-08	0.72700	39.094	40.000	ug/L	3.5	95.9	20	70 - 130
Total Recoverable Lead	DUP	1409204-08	ND	ND		ug/L			20	
	MS	1409204-08	ND	107.43	100.00	ug/L		107		70 - 130
	MSD	1409204-08	ND	104.64	100.00	ug/L	2.6	105	20	70 - 130
QC Batch ID: BXD2429		Used client sample: N								
Total Recoverable Arsenic	DUP	1409131-01	ND	ND		ug/L			20	
	MS	1409131-01	ND	106.60	100.00	ug/L		107		70 - 130
	MSD	1409131-01	ND	104.68	100.00	ug/L	1.8	105	20	70 - 130
Total Recoverable Chromium	DUP	1409131-01	ND	ND		ug/L			20	
	MS	1409131-01	ND	40.016	40.000	ug/L		100		70 - 130
	MSD	1409131-01	ND	39.025	40.000	ug/L	2.5	97.6	20	70 - 130
Total Recoverable Lead	DUP	1409131-01	ND	ND		ug/L			20	
	MS	1409131-01	ND	102.60	100.00	ug/L		103		70 - 130
	MSD	1409131-01	ND	101.61	100.00	ug/L	1.0	102	20	70 - 130
QC Batch ID: BXD2585		Used client sample: N								

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: BXD2585		Used client sample: N									
Total Recoverable Iron	DUP	1409174-01	36.465	ND		ug/L			20		
	MS	1409174-01	36.465	1126.0	1000.0	ug/L		109		75 - 125	
	MSD	1409174-01	36.465	1086.5	1000.0	ug/L	3.6	105	20	75 - 125	

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3761 Attucks Drive
Powell, OH 43065

Reported: 05/14/2014 15:18
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A03 The sample concentration is more than 4 times the spike level.
- B04 The batch size for the Continuing Calibration Blank (CCB) exceeds the control limit.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.
- S05 The sample holding time was exceeded.
- V12 More than the acceptable number of samples were analyzed between Continuing Calibration Verification (CCV) standards.



Date of Report: 05/19/2014

David Conner

Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Client Project: 2nd Qtr.
BCL Project: JPL- GW Monitoring Wells
BCL Work Order: 1409260
Invoice ID: B173475

Enclosed are the results of analyses for samples received by the laboratory on 4/25/2014. 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; AK UST101

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Chain of Custody Form

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Required Fields

Report To: Tidewater, Inc.
 Client: David Conner
 Attn: David Conner
 Street Address: 3761 Attucks Drive
 City: Powell State: OH Zip: 43065
 Phone: 614 1792 - 2897 Fax: 614 792 - 2897
 Email Address: david.conner@ideh2o.net
 Submission #: 14-09260

Project Description: JPL-GW Monitoring
 Project Code: 2nd Qtr.
 Sampler(s): Blaine Tech

Analysis Requested

Sample #	Sample Description	Date	Time	Matrix*
1	TR-5-4/25/14	4-25-14	0600	AQ
2	ER-5-4/25/14	0615		
3	MW-20-5	0645		
4	MW-20-4	0730		
5	MW-20-3	0810		
6	MW-20-2	0840		
7	MW-20-1	0910		
8	MW-18-5	1020		
9	MW-18-4	1100		
10	MW-18-3	1330		
11	DUP-3-20/14	1345		

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

Matrix Requested: VOCs EPA 524.2, TRM: Cr, Pb, As, Ca, Mg, K, Na, Fe, Hexavalent Cr 6-7196 (mg/L), Cl, NO3, NO2, SO4, Perch., CO3, HCO3, Alk., TDS, PH, Orthophosphate 365.1, 8270 Phenols, 8270 PAHs

Notes: SHORT HOLDING TIME, DO, Cl2, BOD, MBAS, COT, CHK BY: M/S/MSD, Level IV, DISTRIBUTION, SUB-OIL

Billing: Client: Tidewater, Inc. (P.O. #1213-000-02)
 Attn: As directed by Ben Headington
 Address: 6625 Seintek Drive, Suite A
 City: Elkridge State: MD Zip: 21024
 Are there any tests with holding times? less than or equal to 48 hours? Yes No
 *Standard Turnaround = 10

Global ID: 1. Received By: NICOLE Date: 4/25/14 Time: 1630
 2. Received By: [Signature] Date: 4/25/14 Time: 1632
 3. Received By: [Signature] Date: 4/25/14 Time: 1940

Cost Center: 1. Relinquished By: [Signature] Date: 4-25-14 Time: 1630
 2. Relinquished By: NICOLE Date: 4/25/14 Time: 1632
 3. Relinquished By: [Signature] Date: 4/25/14 Time: 1940

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



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 #: 14-09790

Project Description: JPL-GW Monitoring
 Project Code: 2nd Qtr.
 Sampler(s): Blaine Tech

Analysis Requested:
 VOCs EPA 524.2
 TRM: Cr, Pb, As, Ca, Mg, K
 Na, Fe
 Hexavalent Cr - 7196 (mg/L)
 Cl, NO3, NO2, SO4, Perch.
 Orthophosphate 365.1
 8270 Phenols
 8270 PAHs

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. Received By: Nicoile Date: 4-25-14 Time: 16:30
 2. Relinquished By: Nicoile Date: 4-25-14 Time: 16:30
 3. Relinquished By: Nicoile Date: 4-25-14 Time: 19:40

Cost Center:
 1. Relinquished By: Nicoile Date: 4-25-14 Time: 16:30
 2. Relinquished By: Nicoile Date: 4-25-14 Time: 16:30
 3. Relinquished By: Nicoile Date: 4-25-14 Time: 19:40

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

Page 2 of 2

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 15 07/01/13 Page 1 Of 4

Submission #: 14-09260

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: _____

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: 0.97 Container: Voss Thermometer ID: 207 Temperature: (A) 0.9 °C (C) 0.7 °C

Date/Time 4/25/14 1940 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 'A1', 'A 3', 'A 9', 'A 3', 'A 3', 'A 3', 'A 3', 'A 3', 'A 3', 'A 3', 'A 3', 'B,C'.

Comments: Sample Numbering Completed By: BP Date/Time: 4/25/14 2012

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 15 07/01/13 Page 2 Of 4

Submission #: 14-09260

SHIPPING INFORMATION
Federal Express [] UPS [] Hand Delivery []
BC Lab Field Service [] 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 []
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: 0.97 Container: Vocs Thermometer ID: 207
Temperature: (A) 0.9 °C (C) 0.7 °C

Date/Time 8/15/14 1940
Analyst Init M

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

Comments:
Sample Numbering Completed By: BP Date/Time: 4/25/14 2012
A = Actual / C = Corrected

[S:\MyDOCS\WordPerfect\LAB_DOCS\FORMS\SAMREC15]

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 15 07/01/13 Page 3 of 4

Submission #: 1409260

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: 0.95 Container: PE Thermometer ID: 207 Date/Time: 12.14.1940
 Temperature: (A) 40 °C (C) 10 °C Analyst Init: M

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

Comments: _____
 Sample Numbering Completed By: BP Date/Time: 4/25/19 2012
 A = Actual / C = Corrected

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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 15 07/01/13 Page 4 of 4

Submission #: 1409260

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: 0.95. Container: PE. Thermometer ID: 207. Date/Time: 1-25-14 1940. Temperature: (A) 40 °C, (C) 1.0 °C. Analyst Init: [Signature]

Table with columns: SAMPLE CONTAINERS, SAMPLE NUMBERS (1-10). Rows include: 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, QT EPA 413.1, 413.2, 418.1, PT ODOR, RADIOLOGICAL, BACTERIOLOGICAL, 40 ml VOA VIAL- 504, QT EPA 508/608/8080, QT EPA 515.1/8150, QT EPA 525, QT EPA 525 TRAVEL BLANK, 100ml EPA 547, 100ml EPA 531.1, QT EPA 548, QT EPA 549, QT EPA 632, QT EPA 8015M, QT AMBER, 8 OZ. JAR, 32 OZ. JAR, SOIL SLEEVE, PCB VIAL, PLASTIC BAG, FERROUS IRON, ENCORE, SMART KIT, Summa Canister.

Comments: Sample Numbering Completed By: [Signature] Date/Time: 1/20/14 2012

A = Actual / C = Corrected

[S:\MyDOCS\WordPerfect\LAB_DOCS\FORMS\SAMREC15]



Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1409260-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-5-4/25/14 Sampled By: Blaine Tech of BAT	Receive Date: 04/25/2014 19:40 Sampling Date: 04/25/2014 06:00 Sample Depth: --- Lab Matrix: Water Sample Type: Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-5-4/25/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1409260-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: EB-5-4/25/14 Sampled By: Blaine Tech of BAT	Receive Date: 04/25/2014 19:40 Sampling Date: 04/25/2014 06:15 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-5-4/25/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1409260-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-20-5 Sampled By: Blaine Tech of BAT	Receive Date: 04/25/2014 19:40 Sampling Date: 04/25/2014 06:45 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-20-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1409260-04	COC Number: ---	Receive Date: 04/25/2014 19:40
	Project Number: JPL-GW	Sampling Date: 04/25/2014 07:30
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-20-4	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Aqueous
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-20-4
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1409260-05	COC Number: ---	Receive Date: 04/25/2014 19:40
	Project Number: JPL-GW	Sampling Date: 04/25/2014 08:10
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-20-3	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Aqueous
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-20-3
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1409260-06	COC Number: ---	Receive Date: 04/25/2014 19:40
	Project Number: JPL-GW	Sampling Date: 04/25/2014 08:40
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-20-2	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Aqueous
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-20-2
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1409260-07	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-20-1 Sampled By: Blaine Tech of BAT	Receive Date: 04/25/2014 19:40 Sampling Date: 04/25/2014 09:10 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-20-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1409260-08	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-18-5 Sampled By: Blaine Tech of BAT	Receive Date: 04/25/2014 19:40 Sampling Date: 04/25/2014 10:20 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-18-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1409260-09	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-18-4 Sampled By: Blaine Tech of BAT	Receive Date: 04/25/2014 19:40 Sampling Date: 04/25/2014 11:00 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous 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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1409260-10	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-18-3 Sampled By: Blaine Tech of BAT	Receive Date: 04/25/2014 19:40 Sampling Date: 04/25/2014 13:30 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-18-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1409260-11	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: DUP-3-2Q14 Sampled By: Blaine Tech of BAT	Receive Date: 04/25/2014 19:40 Sampling Date: 04/25/2014 13:45 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): DUP-3-2Q14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1409260-12	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-18-2 Sampled By: Blaine Tech of BAT	Receive Date: 04/25/2014 19:40 Sampling Date: 04/25/2014 14:30 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-18-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409260-01	Client Sample Name: JPL-GW, TB-5-4/25/14, 4/25/2014 6:00:00AM, Blaine Tech
----------------------------------	---

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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409260-01	Client Sample Name: JPL-GW, TB-5-4/25/14, 4/25/2014 6:00:00AM, 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: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409260-01	Client Sample Name: JPL-GW, TB-5-4/25/14, 4/25/2014 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		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)	101	%	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	04/28/14	04/28/14 11:49	MGC	MS-V5	1	BXD2294

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409260-01	Client Sample Name: JPL-GW, TB-5-4/25/14, 4/25/2014 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	04/28/14	04/28/14 11:49	MGC	MS-V5	1	BXD2294

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409260-02	Client Sample Name: JPL-GW, EB-5-4/25/14, 4/25/2014 6:15:00AM, 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		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: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409260-02	Client Sample Name: JPL-GW, EB-5-4/25/14, 4/25/2014 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	0.17	ug/L	0.50	0.093	EPA-524.2	ND	J	1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409260-02	Client Sample Name: JPL-GW, EB-5-4/25/14, 4/25/2014 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		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)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	88.9	%	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	04/28/14	04/28/14 12:12	MGC	MS-V5	1	BXD2294

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409260-02	Client Sample Name: JPL-GW, EB-5-4/25/14, 4/25/2014 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	04/28/14	04/28/14 12:12	MGC	MS-V5	1	BXD2294

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409260-02		Client Sample Name: JPL-GW, EB-5-4/25/14, 4/25/2014 6:15:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	0.020	mg/L	0.10	0.018	EPA-200.7	ND	J	1
Total Recoverable Magnesium	ND	mg/L	0.050	0.020	EPA-200.7	0.039		1
Total Recoverable Sodium	0.033	mg/L	0.50	0.017	EPA-200.7	0.026	J	1
Total Recoverable Potassium	ND	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	6.5	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	5.3	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	0.32	mg/L	0.50	0.067	EPA-300.0	0.24	J	3
Nitrate as N	ND	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	0.31	mg/L	1.0	0.18	EPA-300.0	0.30	J	3
pH	6.57	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	ND	mg/L	6.7	6.7	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	0.74		7

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-200.7	04/29/14	05/01/14 17:53	JRG	PE-OP2	1	BXD2426
2	SM-2320B	04/28/14	04/28/14 19:38	RML	MET-1	1	BXD2392
3	EPA-300.0	04/25/14	04/25/14 23:49	LD1	IC5	1	BXD2315
4	EPA-150.1	04/28/14	04/28/14 19:38	RML	MET-1	1	BXD2392
5	EPA-160.1	04/30/14	04/30/14 13:10	FRP	MANUAL	0.667	BXD2559
6	EPA-353.2	04/26/14	04/26/14 18:39	OLH	KONE-1	1	BXD2591
7	EPA-314.0	05/07/14	05/08/14 07:29	LD1	IC6	1	BXE0797

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409260-02	Client Sample Name: JPL-GW, EB-5-4/25/14, 4/25/2014 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 Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	1.0	ug/L	3.0	0.50	EPA-200.8	0.58	J	2
Total Recoverable Iron	13	ug/L	50	6.5	EPA-200.7	20	J	3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/25/14	04/25/14 21:59	OLH	KONE-1	1	BXD2542
2	EPA-200.8	04/30/14	05/03/14 01:17	EAR	PE-EL2	1	BXD2592
3	EPA-200.7	04/29/14	05/01/14 17:53	JRG	PE-OP2	1	BXD2426

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409260-03	Client Sample Name: JPL-GW, MW-20-5, 4/25/2014 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		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: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409260-03	Client Sample Name: JPL-GW, MW-20-5, 4/25/2014 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	0.16	ug/L	0.50	0.068	EPA-524.2	ND	J	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409260-03	Client Sample Name: JPL-GW, MW-20-5, 4/25/2014 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		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)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/28/14	04/28/14 12:35	MGC	MS-V5	1	BXD2294

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409260-03	Client Sample Name: JPL-GW, MW-20-5, 4/25/2014 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	04/28/14	04/28/14 12:35	MGC	MS-V5	1	BXD2294

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409260-03		Client Sample Name: JPL-GW, MW-20-5, 4/25/2014 6:45:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	6.6	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	2.1	mg/L	0.050	0.020	EPA-200.7	0.039		1
Total Recoverable Sodium	58	mg/L	0.50	0.017	EPA-200.7	0.026		1
Total Recoverable Potassium	1.5	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	130	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	9.9	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	120	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	8.8	mg/L	0.50	0.067	EPA-300.0	0.24		3
Nitrate as N	ND	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	5.6	mg/L	1.0	0.18	EPA-300.0	0.30		3
pH	8.83	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	170	mg/L	10	10	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	0.74		7

Run #	Method	Prep Date	Run		Instrument	Dilution	QC	
			Date/Time	Analyst			Batch ID	
1	EPA-200.7	04/29/14	05/01/14 17:55	JRG	PE-OP2	1	BXD2426	
2	SM-2320B	04/28/14	04/28/14 19:44	RML	MET-1	1	BXD2392	
3	EPA-300.0	04/25/14	04/26/14 00:02	LD1	IC5	1	BXD2315	
4	EPA-150.1	04/28/14	04/28/14 19:44	RML	MET-1	1	BXD2392	
5	EPA-160.1	04/30/14	04/30/14 13:10	FRP	MANUAL	1	BXD2559	
6	EPA-353.2	04/26/14	04/26/14 18:39	OLH	KONE-1	1	BXD2591	
7	EPA-314.0	05/07/14	05/08/14 07:42	LD1	IC6	1	BXE0797	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409260-03	Client Sample Name: JPL-GW, MW-20-5, 4/25/2014 6:45:00AM, 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
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	0.72	ug/L	3.0	0.50	EPA-200.8	0.58	J	2
Total Recoverable Iron	ND	ug/L	50	6.5	EPA-200.7	20		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/25/14	04/25/14 21:59	OLH	KONE-1	1	BXD2542
2	EPA-200.8	04/30/14	05/03/14 01:20	EAR	PE-EL2	1	BXD2592
3	EPA-200.7	04/29/14	05/01/14 17:55	JRG	PE-OP2	1	BXD2426

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409260-04	Client Sample Name: JPL-GW, MW-20-4, 4/25/2014 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		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: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409260-04	Client Sample Name: JPL-GW, MW-20-4, 4/25/2014 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	0.54	ug/L	1.0	0.38	EPA-524.2	ND	J	1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409260-04	Client Sample Name: JPL-GW, MW-20-4, 4/25/2014 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		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)	99.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.0	%	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	04/28/14	04/28/14 12:57	MGC	MS-V5	1	BXD2294

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409260-04	Client Sample Name: JPL-GW, MW-20-4, 4/25/2014 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	04/28/14	04/28/14 12:57	MGC	MS-V5	1	BXD2294

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409260-04		Client Sample Name: JPL-GW, MW-20-4, 4/25/2014 7:30:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	8.4	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	3.1	mg/L	0.050	0.020	EPA-200.7	0.039		1
Total Recoverable Sodium	60	mg/L	0.50	0.017	EPA-200.7	0.026		1
Total Recoverable Potassium	0.78	mg/L	1.0	0.10	EPA-200.7	ND	J	1
Bicarbonate	130	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	14	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	130	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	11	mg/L	0.50	0.067	EPA-300.0	0.24		3
Nitrate as N	ND	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	12	mg/L	1.0	0.18	EPA-300.0	0.30		3
pH	9.01	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	210	mg/L	20	20	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	0.74		7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-200.7	04/29/14	05/01/14	17:24	JRG	PE-OP2	1	BXD2426	
2	SM-2320B	04/28/14	04/28/14	19:50	RML	MET-1	1	BXD2392	
3	EPA-300.0	04/25/14	04/26/14	00:43	LD1	IC5	1	BXD2315	
4	EPA-150.1	04/28/14	04/28/14	19:50	RML	MET-1	1	BXD2392	
5	EPA-160.1	04/30/14	04/30/14	13:10	FRP	MANUAL	2	BXD2559	
6	EPA-353.2	04/26/14	04/26/14	18:39	OLH	KONE-1	1	BXD2591	
7	EPA-314.0	05/07/14	05/08/14	04:43	LD1	IC6	1	BXE0797	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409260-04	Client Sample Name: JPL-GW, MW-20-4, 4/25/2014 7:30:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.010	0.0035	EPA-7196	ND	A10	1
Total Recoverable Arsenic	1.1	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	0.54	ug/L	3.0	0.50	EPA-200.8	0.58	J	2
Total Recoverable Iron	21	ug/L	50	6.5	EPA-200.7	20	J	3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/25/14	04/26/14 00:41	OLH	KONE-1	5	BXD2545
2	EPA-200.8	04/30/14	05/03/14 00:51	EAR	PE-EL2	1	BXD2592
3	EPA-200.7	04/29/14	05/01/14 17:24	JRG	PE-OP2	1	BXD2426

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409260-05	Client Sample Name: JPL-GW, MW-20-3, 4/25/2014 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		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: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409260-05	Client Sample Name: JPL-GW, MW-20-3, 4/25/2014 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	0.10	ug/L	0.50	0.098	EPA-524.2	ND	J	1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	0.25	ug/L	0.50	0.068	EPA-524.2	ND	J	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.20	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.090	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	0.58	ug/L	1.0	0.38	EPA-524.2	ND	J	1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409260-05	Client Sample Name: JPL-GW, MW-20-3, 4/25/2014 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		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)	99.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/28/14	04/28/14 13:20	MGC	MS-V5	1	BXD2294

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409260-05	Client Sample Name: JPL-GW, MW-20-3, 4/25/2014 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	04/28/14	04/28/14 13:20	MGC	MS-V5	1	BXD2294

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409260-05		Client Sample Name: JPL-GW, MW-20-3, 4/25/2014 8:10:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	9.3	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	8.7	mg/L	0.050	0.020	EPA-200.7	0.039		1
Total Recoverable Sodium	52	mg/L	0.50	0.017	EPA-200.7	0.026		1
Total Recoverable Potassium	2.0	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	93	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	15	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	100	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	47	mg/L	0.50	0.067	EPA-300.0	0.24		3
Nitrate as N	0.20	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	3.3	mg/L	1.0	0.18	EPA-300.0	0.30		3
pH	9.16	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	190	mg/L	20	20	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	0.74		7

Run #	Method	Prep Date	Run		Instrument	Dilution	QC	
			Date/Time	Analyst			Batch ID	
1	EPA-200.7	04/29/14	05/01/14 17:58	JRG	PE-OP2	1	BXD2426	
2	SM-2320B	05/01/14	05/01/14 13:01	RML	MET-1	1	BXE0145	
3	EPA-300.0	04/25/14	04/26/14 02:03	LD1	IC5	1	BXD2315	
4	EPA-150.1	04/28/14	04/28/14 20:11	RML	MET-1	1	BXD2393	
5	EPA-160.1	04/30/14	04/30/14 13:10	FRP	MANUAL	2	BXD2559	
6	EPA-353.2	04/26/14	04/26/14 18:39	OLH	KONE-1	1	BXD2591	
7	EPA-314.0	05/07/14	05/08/14 07:56	LD1	IC6	1	BXE0797	

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Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409260-05	Client Sample Name: JPL-GW, MW-20-3, 4/25/2014 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 Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	0.90	ug/L	3.0	0.50	EPA-200.8	0.58	J	2
Total Recoverable Iron	25	ug/L	50	6.5	EPA-200.7	20	J	3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/25/14	04/25/14 21:59	OLH	KONE-1	1	BXD2542
2	EPA-200.8	04/30/14	05/03/14 01:23	EAR	PE-EL2	1	BXD2592
3	EPA-200.7	04/29/14	05/01/14 17:58	JRG	PE-OP2	1	BXD2426

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Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409260-06 Client Sample Name: JPL-GW, MW-20-2, 4/25/2014 8:40:00AM, Blaine Tech

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

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Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID:	1409260-06	Client Sample Name:	JPL-GW, MW-20-2, 4/25/2014 8:40:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1	
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1	
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1	
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1	
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1	
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1	
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1	
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1	
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1	
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1	
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1	
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1	
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1	
Trichloroethene	0.21	ug/L	0.50	0.085	EPA-524.2	ND	J	1	
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1	
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1	
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1	
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1	
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1	
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1	
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1	
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1	
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1	
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1	
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1	
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1	
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1	

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3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409260-06	Client Sample Name: JPL-GW, MW-20-2, 4/25/2014 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		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)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/28/14	04/28/14 13:42	MGC	MS-V5	1	BXD2294

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Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409260-06	Client Sample Name: JPL-GW, MW-20-2, 4/25/2014 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	04/28/14	04/28/14 13:42	MGC	MS-V5	1	BXD2294

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Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409260-06		Client Sample Name: JPL-GW, MW-20-2, 4/25/2014 8:40:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	73	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	27	mg/L	0.050	0.020	EPA-200.7	ND		1
Total Recoverable Sodium	19	mg/L	0.50	0.017	EPA-200.7	0.10		1
Total Recoverable Potassium	2.9	mg/L	1.0	0.10	EPA-200.7	0.32		1
Bicarbonate	210	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	170	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	37	mg/L	0.50	0.067	EPA-300.0	0.24		3
Nitrate as N	5.0	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	57	mg/L	1.0	0.18	EPA-300.0	0.30		3
pH	7.95	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	370	mg/L	20	20	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	4.0	ug/L	4.0	0.45	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	05/09/14	05/12/14	19:10	JRG	PE-OP2	1	BXE0839
2	SM-2320B	05/01/14	05/01/14	13:22	RML	MET-1	1	BXE0145
3	EPA-300.0	04/25/14	04/26/14	02:16	LD1	IC5	1	BXD2315
4	EPA-150.1	04/28/14	04/28/14	20:23	RML	MET-1	1	BXD2393
5	EPA-160.1	04/30/14	04/30/14	13:10	FRP	MANUAL	2	BXD2559
6	EPA-353.2	04/26/14	04/26/14	18:39	OLH	KONE-1	1	BXD2591
7	EPA-314.0	05/07/14	05/08/14	09:19	LD1	IC6	1	BXE0798

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Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409260-06	Client Sample Name: JPL-GW, MW-20-2, 4/25/2014 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00083	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	2.2	ug/L	3.0	0.50	EPA-200.8	0.58	J	2
Total Recoverable Iron	11	ug/L	50	6.5	EPA-200.7	20	J	3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/25/14	04/25/14 21:59	OLH	KONE-1	1	BXD2542
2	EPA-200.8	04/30/14	05/03/14 01:26	EAR	PE-EL2	1	BXD2592
3	EPA-200.7	04/29/14	05/01/14 18:00	JRG	PE-OP2	1	BXD2426

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Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409260-07	Client Sample Name: JPL-GW, MW-20-1, 4/25/2014 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		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: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409260-07	Client Sample Name: JPL-GW, MW-20-1, 4/25/2014 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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409260-07	Client Sample Name: JPL-GW, MW-20-1, 4/25/2014 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		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)	94.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/28/14	04/28/14 14:54	MGC	MS-V5	1	BXD2294

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409260-07	Client Sample Name: JPL-GW, MW-20-1, 4/25/2014 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	04/28/14	04/28/14 14:54	MGC	MS-V5	1	BXD2294

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409260-07		Client Sample Name: JPL-GW, MW-20-1, 4/25/2014 9:10:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	61	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	21	mg/L	0.050	0.020	EPA-200.7	ND		1
Total Recoverable Sodium	18	mg/L	0.50	0.017	EPA-200.7	0.10		1
Total Recoverable Potassium	3.1	mg/L	1.0	0.10	EPA-200.7	0.32		1
Bicarbonate	210	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	170	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	24	mg/L	0.50	0.067	EPA-300.0	0.24		3
Nitrate as N	2.6	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	44	mg/L	1.0	0.18	EPA-300.0	0.30		3
pH	8.03	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	320	mg/L	20	20	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-200.7	05/09/14	05/12/14	19:12	JRG	PE-OP2	1	BXE0839	
2	SM-2320B	05/01/14	05/01/14	13:28	RML	MET-1	1	BXE0145	
3	EPA-300.0	04/25/14	04/26/14	02:30	LD1	IC5	1	BXD2315	
4	EPA-150.1	04/28/14	04/28/14	20:29	RML	MET-1	1	BXD2393	
5	EPA-160.1	04/30/14	04/30/14	13:10	FRP	MANUAL	2	BXD2559	
6	EPA-353.2	04/26/14	04/26/14	18:45	OLH	KONE-1	1	BXD2591	
7	EPA-314.0	05/07/14	05/08/14	10:15	LD1	IC6	1	BXE0798	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409260-07	Client Sample Name: JPL-GW, MW-20-1, 4/25/2014 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 Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	0.82	ug/L	3.0	0.50	EPA-200.8	0.58	J	2
Total Recoverable Iron	42	ug/L	50	6.5	EPA-200.7	20	J	3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/25/14	04/25/14 22:05	OLH	KONE-1	1	BXD2542
2	EPA-200.8	04/30/14	05/03/14 01:30	EAR	PE-EL2	1	BXD2592
3	EPA-200.7	04/29/14	05/01/14 18:03	JRG	PE-OP2	1	BXD2426

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409260-08	Client Sample Name: JPL-GW, MW-18-5, 4/25/2014 10:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409260-08	Client Sample Name: JPL-GW, MW-18-5, 4/25/2014 10:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409260-08	Client Sample Name: JPL-GW, MW-18-5, 4/25/2014 10:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	107	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/28/14	04/28/14 15:17	MGC	MS-V5	1	BXD2294

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409260-08	Client Sample Name: JPL-GW, MW-18-5, 4/25/2014 10:20:00AM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/28/14	04/28/14 15:17	MGC	MS-V5	1	BXD2294

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409260-08		Client Sample Name: JPL-GW, MW-18-5, 4/25/2014 10:20:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	12	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	4.7	mg/L	0.050	0.020	EPA-200.7	0.039		1
Total Recoverable Sodium	53	mg/L	0.50	0.017	EPA-200.7	0.026		1
Total Recoverable Potassium	1.3	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	150	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	6.9	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	140	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	11	mg/L	0.50	0.067	EPA-300.0	0.24		3
Nitrate as N	0.036	mg/L	0.10	0.025	EPA-300.0	ND	J	3
Sulfate	6.0	mg/L	1.0	0.18	EPA-300.0	0.30		3
pH	8.64	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	200	mg/L	20	20	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	04/29/14	05/01/14	18:05	JRG	PE-OP2	1	BXD2426
2	SM-2320B	05/01/14	05/01/14	13:34	RML	MET-1	1	BXE0145
3	EPA-300.0	04/25/14	04/26/14	02:43	LD1	IC5	1	BXD2315
4	EPA-150.1	04/28/14	04/28/14	20:34	RML	MET-1	1	BXD2393
5	EPA-160.1	04/30/14	04/30/14	13:10	FRP	MANUAL	2	BXD2559
6	EPA-353.2	04/26/14	04/26/14	18:45	OLH	KONE-1	1	BXD2591
7	EPA-314.0	05/07/14	05/08/14	11:10	LD1	IC6	1	BXE0798

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409260-08	Client Sample Name: JPL-GW, MW-18-5, 4/25/2014 10:20:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Arsenic	0.99	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	0.67	ug/L	3.0	0.50	EPA-200.8	0.58	J	2
Total Recoverable Iron	53	ug/L	50	6.5	EPA-200.7	20		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/25/14	04/25/14 22:05	OLH	KONE-1	1	BXD2542
2	EPA-200.8	04/30/14	05/03/14 01:33	EAR	PE-EL2	1	BXD2592
3	EPA-200.7	04/29/14	05/01/14 18:05	JRG	PE-OP2	1	BXD2426

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409260-09	Client Sample Name: JPL-GW, MW-18-4, 4/25/2014 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		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	1.4	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.60	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: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409260-09	Client Sample Name: JPL-GW, MW-18-4, 4/25/2014 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	0.64	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.80	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409260-09	Client Sample Name: JPL-GW, MW-18-4, 4/25/2014 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		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)	112	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	103	%	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	04/28/14	04/28/14 15:39	MGC	MS-V5	1	BXD2294

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409260-09	Client Sample Name: JPL-GW, MW-18-4, 4/25/2014 11:00:00AM, 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	04/28/14	04/28/14 15:39	MGC	MS-V5	1	BXD2294

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

BCL Sample ID: 1409260-09	Client Sample Name: JPL-GW, MW-18-4, 4/25/2014 11:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Acenaphthylene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Anthracene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Benzo[a]anthracene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Benzo[b]fluoranthene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Benzo[k]fluoranthene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Benzo[a]pyrene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Benzo[g,h,i]perylene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Chrysene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Fluoranthene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Fluorene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Naphthalene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Phenanthrene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Pyrene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Nitrobenzene-d5 (Surrogate)	99.2	%	42 - 130 (LCL - UCL)		EPA-8270C-SIM			1
2-Fluorobiphenyl (Surrogate)	92.4	%	50 - 116 (LCL - UCL)		EPA-8270C-SIM			1
p-Terphenyl-d14 (Surrogate)	106	%	43 - 134 (LCL - UCL)		EPA-8270C-SIM			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C-SIM	04/30/14	05/05/14 17:09	MK1	MS-B7	0.970	BXE0478

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409260-09		Client Sample Name: JPL-GW, MW-18-4, 4/25/2014 11:00:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	38	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	11	mg/L	0.050	0.020	EPA-200.7	0.037		1
Total Recoverable Sodium	30	mg/L	0.50	0.017	EPA-200.7	ND		1
Total Recoverable Potassium	1.9	mg/L	1.0	0.10	EPA-200.7	ND		2
Bicarbonate	200	mg/L	5.0	5.0	SM-2320B	ND		3
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		3
Total Alkalinity as CaCO3	170	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	9.8	mg/L	0.50	0.067	EPA-300.0	0.24		4
Nitrate as N	1.0	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	23	mg/L	1.0	0.18	EPA-300.0	0.30		4
pH	8.12	pH Units	0.05	0.05	EPA-150.1		S05	5
Total Dissolved Solids @ 180 C	250	mg/L	20	20	EPA-160.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		7
Perchlorate	16	ug/L	4.0	0.45	EPA-314.0	ND		8

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	04/30/14	04/30/14	19:23	JRG	PE-OP2	1	BXD2588
2	EPA-200.7	04/30/14	05/01/14	16:49	JRG	PE-OP2	1	BXD2588
3	SM-2320B	05/01/14	05/01/14	13:40	RML	MET-1	1	BXE0145
4	EPA-300.0	04/25/14	04/26/14	02:57	LD1	IC5	1	BXD2315
5	EPA-150.1	04/28/14	04/28/14	20:40	RML	MET-1	1	BXD2393
6	EPA-160.1	04/30/14	04/30/14	13:10	FRP	MANUAL	2	BXD2559
7	EPA-353.2	04/26/14	04/26/14	18:45	OLH	KONE-1	1	BXD2591
8	EPA-314.0	05/07/14	05/08/14	11:24	LD1	IC6	1	BXE0798

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409260-09	Client Sample Name: JPL-GW, MW-18-4, 4/25/2014 11:00:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0023	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Arsenic	1.5	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	3.4	ug/L	3.0	0.50	EPA-200.8	0.58		2
Total Recoverable Iron	290	ug/L	50	6.5	EPA-200.7	35		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/25/14	04/25/14 22:05	OLH	KONE-1	1	BXD2542
2	EPA-200.8	04/30/14	05/03/14 01:36	EAR	PE-EL2	1	BXD2592
3	EPA-200.7	04/30/14	04/30/14 19:23	JRG	PE-OP2	1	BXD2588

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409260-10	Client Sample Name: JPL-GW, MW-18-3, 4/25/2014 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		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	6.4	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	1.3	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	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: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409260-10	Client Sample Name: JPL-GW, MW-18-3, 4/25/2014 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	0.15	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.51	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: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409260-10	Client Sample Name: JPL-GW, MW-18-3, 4/25/2014 1:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	109	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	89.6	%	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	04/28/14	04/28/14 16:02	MGC	MS-V5	1	BXD2294

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409260-10	Client Sample Name: JPL-GW, MW-18-3, 4/25/2014 1:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/28/14	04/28/14 16:02	MGC	MS-V5	1	BXD2294

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409260-10		Client Sample Name: JPL-GW, MW-18-3, 4/25/2014 1:30:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	59	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	18	mg/L	0.050	0.020	EPA-200.7	0.037		1
Total Recoverable Sodium	21	mg/L	0.50	0.017	EPA-200.7	ND		1
Total Recoverable Potassium	2.9	mg/L	1.0	0.10	EPA-200.7	ND		2
Bicarbonate	240	mg/L	5.0	5.0	SM-2320B	ND		3
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		3
Total Alkalinity as CaCO3	200	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	20	mg/L	0.50	0.067	EPA-300.0	0.24		4
Nitrate as N	1.8	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	39	mg/L	1.0	0.18	EPA-300.0	0.30		4
pH	8.00	pH Units	0.05	0.05	EPA-150.1		S05	5
Total Dissolved Solids @ 180 C	330	mg/L	20	20	EPA-160.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		7
Perchlorate	32	ug/L	8.0	0.90	EPA-314.0	ND	A01	8

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	04/30/14	04/30/14	19:34	JRG	PE-OP2	1	BXD2588
2	EPA-200.7	04/30/14	05/01/14	16:59	JRG	PE-OP2	1	BXD2588
3	SM-2320B	05/01/14	05/01/14	13:46	RML	MET-1	1	BXE0145
4	EPA-300.0	04/25/14	04/26/14	03:10	LD1	IC5	1	BXD2315
5	EPA-150.1	04/28/14	04/28/14	20:46	RML	MET-1	1	BXD2393
6	EPA-160.1	04/30/14	04/30/14	13:10	FRP	MANUAL	2	BXD2559
7	EPA-353.2	04/26/14	04/26/14	18:45	OLH	KONE-1	1	BXD2591
8	EPA-314.0	05/07/14	05/08/14	15:01	LD1	IC6	2	BXE0798

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409260-10	Client Sample Name: JPL-GW, MW-18-3, 4/25/2014 1:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0022	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Arsenic	0.97	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	2.6	ug/L	3.0	0.50	EPA-200.8	0.58	J	2
Total Recoverable Iron	100	ug/L	50	6.5	EPA-200.7	35		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/25/14	04/25/14 22:06	OLH	KONE-1	1	BXD2542
2	EPA-200.8	04/30/14	05/03/14 01:39	EAR	PE-EL2	1	BXD2592
3	EPA-200.7	04/30/14	04/30/14 19:34	JRG	PE-OP2	1	BXD2588

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Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409260-11	Client Sample Name: JPL-GW, DUP-3-2Q14, 4/25/2014 1:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND		1
n-Butylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
sec-Butylbenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
tert-Butylbenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Carbon tetrachloride	7.2	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	1.3	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	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: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409260-11	Client Sample Name: JPL-GW, DUP-3-2Q14, 4/25/2014 1:45:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.16	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.57	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: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409260-11	Client Sample Name: JPL-GW, DUP-3-2Q14, 4/25/2014 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		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)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.8	%	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	04/28/14	04/28/14 16:25	MGC	MS-V5	1	BXD2294

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409260-11	Client Sample Name: JPL-GW, DUP-3-2Q14, 4/25/2014 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	04/28/14	04/28/14 16:25	MGC	MS-V5	1	BXD2294

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409260-11		Client Sample Name: JPL-GW, DUP-3-2Q14, 4/25/2014 1:45:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	57	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	17	mg/L	0.050	0.020	EPA-200.7	0.037		1
Total Recoverable Sodium	21	mg/L	0.50	0.017	EPA-200.7	ND		1
Total Recoverable Potassium	2.9	mg/L	1.0	0.10	EPA-200.7	ND		2
Bicarbonate	240	mg/L	5.0	5.0	SM-2320B	ND		3
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		3
Total Alkalinity as CaCO3	200	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	20	mg/L	0.50	0.067	EPA-300.0	0.24		4
Nitrate as N	1.8	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	39	mg/L	1.0	0.18	EPA-300.0	0.30		4
pH	8.00	pH Units	0.05	0.05	EPA-150.1		S05	5
Total Dissolved Solids @ 180 C	380	mg/L	20	20	EPA-160.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		7
Perchlorate	36	ug/L	8.0	0.90	EPA-314.0	ND	A01	8

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	04/30/14	04/30/14	19:37	JRG	PE-OP2	1	BXD2588
2	EPA-200.7	04/30/14	05/01/14	17:01	JRG	PE-OP2	1	BXD2588
3	SM-2320B	05/01/14	05/01/14	13:51	RML	MET-1	1	BXE0145
4	EPA-300.0	04/25/14	04/26/14	03:23	LD1	IC5	1	BXD2315
5	EPA-150.1	04/28/14	04/28/14	20:51	RML	MET-1	1	BXD2393
6	EPA-160.1	04/30/14	04/30/14	13:10	FRP	MANUAL	2	BXD2559
7	EPA-353.2	04/26/14	04/26/14	18:45	OLH	KONE-1	1	BXD2593
8	EPA-314.0	05/07/14	05/08/14	15:15	LD1	IC6	2	BXE0798

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409260-11	Client Sample Name: JPL-GW, DUP-3-2Q14, 4/25/2014 1:45:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0022	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	2.7	ug/L	3.0	0.50	EPA-200.8	0.58	J	2
Total Recoverable Iron	100	ug/L	50	6.5	EPA-200.7	35		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/25/14	04/25/14 22:06	OLH	KONE-1	1	BXD2542
2	EPA-200.8	04/30/14	05/03/14 01:43	EAR	PE-EL2	1	BXD2592
3	EPA-200.7	04/30/14	04/30/14 19:37	JRG	PE-OP2	1	BXD2588

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Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409260-12	Client Sample Name: JPL-GW, MW-18-2, 4/25/2014 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		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: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409260-12 **Client Sample Name:** JPL-GW, MW-18-2, 4/25/2014 2:30:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409260-12	Client Sample Name: JPL-GW, MW-18-2, 4/25/2014 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		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)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.0	%	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	04/28/14	04/28/14 16:47	MGC	MS-V5	1	BXD2294

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409260-12	Client Sample Name: JPL-GW, MW-18-2, 4/25/2014 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	04/28/14	04/28/14 16:47	MGC	MS-V5	1	BXD2294

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409260-12		Client Sample Name: JPL-GW, MW-18-2, 4/25/2014 2:30:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	53	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	18	mg/L	0.050	0.020	EPA-200.7	0.037		1
Total Recoverable Sodium	19	mg/L	0.50	0.017	EPA-200.7	ND		1
Total Recoverable Potassium	2.8	mg/L	1.0	0.10	EPA-200.7	ND		2
Bicarbonate	230	mg/L	5.0	5.0	SM-2320B	ND		3
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		3
Total Alkalinity as CaCO3	190	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	14	mg/L	0.50	0.067	EPA-300.0	0.26		4
Nitrate as N	1.2	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	40	mg/L	1.0	0.18	EPA-300.0	0.31		4
pH	7.87	pH Units	0.05	0.05	EPA-150.1		S05	5
Total Dissolved Solids @ 180 C	330	mg/L	20	20	EPA-160.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		7
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		8

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	04/30/14	04/30/14	19:40	JRG	PE-OP2	1	BXD2588
2	EPA-200.7	04/30/14	05/01/14	17:04	JRG	PE-OP2	1	BXD2588
3	SM-2320B	05/01/14	05/01/14	13:57	RML	MET-1	1	BXE0145
4	EPA-300.0	04/25/14	04/26/14	03:37	LD1	IC5	1	BXD2314
5	EPA-150.1	04/28/14	04/28/14	20:57	RML	MET-1	1	BXD2393
6	EPA-160.1	04/30/14	04/30/14	13:40	FRP	MANUAL	2	BXD2560
7	EPA-353.2	04/26/14	04/26/14	18:46	OLH	KONE-1	1	BXD2593
8	EPA-314.0	05/07/14	05/08/14	12:05	LD1	IC6	1	BXE0798

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Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409260-12	Client Sample Name: JPL-GW, MW-18-2, 4/25/2014 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
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	180	ug/L	50	6.5	EPA-200.7	35		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/25/14	04/25/14 22:08	OLH	KONE-1	1	BXD2542
2	EPA-200.8	04/30/14	04/30/14 21:03	SRM	PE-EL2	1	BXD2594
3	EPA-200.7	04/30/14	04/30/14 19:40	JRG	PE-OP2	1	BXD2588

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Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2294						
Benzene	BXD2294-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXD2294-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXD2294-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXD2294-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXD2294-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXD2294-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXD2294-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXD2294-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXD2294-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXD2294-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXD2294-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXD2294-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXD2294-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXD2294-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXD2294-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXD2294-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BXD2294-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXD2294-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXD2294-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXD2294-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXD2294-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXD2294-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXD2294-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXD2294-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXD2294-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXD2294-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXD2294-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXD2294-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXD2294-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXD2294-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXD2294-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXD2294-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXD2294-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXD2294-BLK1	ND	ug/L	0.50	0.14	

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Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2294						
trans-1,3-Dichloropropene	BXD2294-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXD2294-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXD2294-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXD2294-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXD2294-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXD2294-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXD2294-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXD2294-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXD2294-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXD2294-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXD2294-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BXD2294-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethane	BXD2294-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXD2294-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXD2294-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXD2294-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BXD2294-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXD2294-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXD2294-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXD2294-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXD2294-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXD2294-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXD2294-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXD2294-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXD2294-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXD2294-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXD2294-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXD2294-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXD2294-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXD2294-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXD2294-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXD2294-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXD2294-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXD2294-BLK1	ND	ug/L	4.0	0.97	

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Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2294						
Ethyl t-butyl ether	BXD2294-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXD2294-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXD2294-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXD2294-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXD2294-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXD2294-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXD2294-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXD2294-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXD2294-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXD2294-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXD2294-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXD2294-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXD2294-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BXD2294-BLK1	105	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BXD2294-BLK1	98.0	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BXD2294-BLK1	93.2	%	80 - 120 (LCL - UCL)		

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Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXD2294										
Benzene	BXD2294-BS1	LCS	22.530	25.000	ug/L	90.1		70 - 130		
Bromodichloromethane	BXD2294-BS1	LCS	29.820	25.000	ug/L	119		70 - 130		
Chlorobenzene	BXD2294-BS1	LCS	24.800	25.000	ug/L	99.2		70 - 130		
Chloroethane	BXD2294-BS1	LCS	24.580	25.000	ug/L	98.3		70 - 130		
1,4-Dichlorobenzene	BXD2294-BS1	LCS	27.380	25.000	ug/L	110		70 - 130		
1,1-Dichloroethane	BXD2294-BS1	LCS	24.680	25.000	ug/L	98.7		70 - 130		
1,1-Dichloroethene	BXD2294-BS1	LCS	25.820	25.000	ug/L	103		70 - 130		
Toluene	BXD2294-BS1	LCS	24.670	25.000	ug/L	98.7		70 - 130		
Trichloroethene	BXD2294-BS1	LCS	26.370	25.000	ug/L	105		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXD2294-BS1	LCS	11.150	10.000	ug/L	112		75 - 125		
Toluene-d8 (Surrogate)	BXD2294-BS1	LCS	10.070	10.000	ug/L	101		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXD2294-BS1	LCS	11.410	10.000	ug/L	114		80 - 120		

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Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery		Lab Quals
								RPD	Percent Recovery	
QC Batch ID: BXD2294		Used client sample: Y - Description: MW-20-4, 04/25/2014 07:30								
Benzene	MS	1409260-04	ND	23.600	25.000	ug/L		94.4		70 - 130
	MSD	1409260-04	ND	23.430	25.000	ug/L	0.7	93.7	20	70 - 130
Bromodichloromethane	MS	1409260-04	ND	31.580	25.000	ug/L		126		70 - 130
	MSD	1409260-04	ND	31.630	25.000	ug/L	0.2	127	20	70 - 130
Chlorobenzene	MS	1409260-04	ND	26.250	25.000	ug/L		105		70 - 130
	MSD	1409260-04	ND	26.090	25.000	ug/L	0.6	104	20	70 - 130
Chloroethane	MS	1409260-04	ND	25.490	25.000	ug/L		102		70 - 130
	MSD	1409260-04	ND	25.290	25.000	ug/L	0.8	101	20	70 - 130
1,4-Dichlorobenzene	MS	1409260-04	ND	29.400	25.000	ug/L		118		70 - 130
	MSD	1409260-04	ND	29.160	25.000	ug/L	0.8	117	20	70 - 130
1,1-Dichloroethane	MS	1409260-04	ND	26.030	25.000	ug/L		104		70 - 130
	MSD	1409260-04	ND	25.010	25.000	ug/L	4.0	100	20	70 - 130
1,1-Dichloroethene	MS	1409260-04	ND	26.830	25.000	ug/L		107		70 - 130
	MSD	1409260-04	ND	26.380	25.000	ug/L	1.7	106	20	70 - 130
Toluene	MS	1409260-04	ND	26.280	25.000	ug/L		105		70 - 130
	MSD	1409260-04	ND	26.480	25.000	ug/L	0.8	106	20	70 - 130
Trichloroethene	MS	1409260-04	ND	27.330	25.000	ug/L		109		70 - 130
	MSD	1409260-04	ND	26.790	25.000	ug/L	2.0	107	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1409260-04	ND	10.890	10.000	ug/L		109		75 - 125
	MSD	1409260-04	ND	10.570	10.000	ug/L	3.0	106		75 - 125
Toluene-d8 (Surrogate)	MS	1409260-04	ND	10.190	10.000	ug/L		102		80 - 120
	MSD	1409260-04	ND	10.230	10.000	ug/L	0.4	102		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1409260-04	ND	11.090	10.000	ug/L		111		80 - 120
	MSD	1409260-04	ND	11.400	10.000	ug/L	2.8	114		80 - 120

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Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2294						
Chloroacetonitrile	BXD2294-BLK1	0	ug/L			
1-Chlorobutane	BXD2294-BLK1	0	ug/L			
1,1-Dichloropropanone	BXD2294-BLK1	0	ug/L			
Methyl acrylate	BXD2294-BLK1	0	ug/L			
Nitrobenzene	BXD2294-BLK1	0	ug/L			
2-Nitropropane	BXD2294-BLK1	0	ug/L			

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Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0478						
Acenaphthene	BXE0478-BLK1	ND	ug/L	0.10	0.034	
Acenaphthylene	BXE0478-BLK1	ND	ug/L	0.10	0.034	
Anthracene	BXE0478-BLK1	ND	ug/L	0.10	0.034	
Benzo[a]anthracene	BXE0478-BLK1	ND	ug/L	0.10	0.034	
Benzo[b]fluoranthene	BXE0478-BLK1	ND	ug/L	0.10	0.034	
Benzo[k]fluoranthene	BXE0478-BLK1	ND	ug/L	0.10	0.034	
Benzo[a]pyrene	BXE0478-BLK1	ND	ug/L	0.10	0.034	
Benzo[g,h,i]perylene	BXE0478-BLK1	ND	ug/L	0.10	0.034	
Chrysene	BXE0478-BLK1	ND	ug/L	0.10	0.034	
Dibenzo[a,h]anthracene	BXE0478-BLK1	ND	ug/L	0.10	0.034	
Fluoranthene	BXE0478-BLK1	ND	ug/L	0.10	0.034	
Fluorene	BXE0478-BLK1	ND	ug/L	0.10	0.034	
Indeno[1,2,3-cd]pyrene	BXE0478-BLK1	ND	ug/L	0.10	0.034	
Naphthalene	BXE0478-BLK1	ND	ug/L	0.10	0.034	
Phenanthrene	BXE0478-BLK1	ND	ug/L	0.10	0.034	
Pyrene	BXE0478-BLK1	ND	ug/L	0.10	0.034	
Nitrobenzene-d5 (Surrogate)	BXE0478-BLK1	103	%	42 - 130 (LCL - UCL)		
2-Fluorobiphenyl (Surrogate)	BXE0478-BLK1	90.1	%	50 - 116 (LCL - UCL)		
p-Terphenyl-d14 (Surrogate)	BXE0478-BLK1	115	%	43 - 134 (LCL - UCL)		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXE0478										
Acenaphthene	BXE0478-BS1	LCS	1.0290	1.0000	ug/L	103		60 - 110		
Acenaphthylene	BXE0478-BS1	LCS	1.0584	1.0000	ug/L	106		56 - 120		
Anthracene	BXE0478-BS1	LCS	1.0682	1.0000	ug/L	107		57 - 128		
Benzo[a]anthracene	BXE0478-BS1	LCS	1.0486	1.0000	ug/L	105		64 - 130		
Benzo[b]fluoranthene	BXE0478-BS1	LCS	0.98980	1.0000	ug/L	99.0		50 - 130		
Benzo[k]fluoranthene	BXE0478-BS1	LCS	1.0290	1.0000	ug/L	103		60 - 120		
Benzo[a]pyrene	BXE0478-BS1	LCS	1.0584	1.0000	ug/L	106		60 - 125		
Benzo[g,h,i]perylene	BXE0478-BS1	LCS	0.92120	1.0000	ug/L	92.1		44 - 120		
Chrysene	BXE0478-BS1	LCS	1.0192	1.0000	ug/L	102		60 - 110		
Dibenzo[a,h]anthracene	BXE0478-BS1	LCS	0.99960	1.0000	ug/L	100		40 - 120		
Fluoranthene	BXE0478-BS1	LCS	1.0780	1.0000	ug/L	108		60 - 120		
Fluorene	BXE0478-BS1	LCS	1.0192	1.0000	ug/L	102		60 - 120		
Indeno[1,2,3-cd]pyrene	BXE0478-BS1	LCS	0.97020	1.0000	ug/L	97.0		40 - 130		
Naphthalene	BXE0478-BS1	LCS	1.0094	1.0000	ug/L	101		60 - 110		
Phenanthrene	BXE0478-BS1	LCS	0.99960	1.0000	ug/L	100		60 - 120		
Pyrene	BXE0478-BS1	LCS	1.0878	1.0000	ug/L	109		50 - 125		
Nitrobenzene-d5 (Surrogate)	BXE0478-BS1	LCS	4.2532	4.0000	ug/L	106		42 - 130		
2-Fluorobiphenyl (Surrogate)	BXE0478-BS1	LCS	4.0964	4.0000	ug/L	102		50 - 116		
p-Terphenyl-d14 (Surrogate)	BXE0478-BS1	LCS	4.4394	4.0000	ug/L	111		43 - 134		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes a QC Batch ID: BXE0478 and a list of 20 polynuclear aromatic hydrocarbons with their respective test results and recovery percentages.

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Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: BXE0478		Used client sample: N									
p-Terphenyl-d14 (Surrogate)	MS	1407468-61	ND	4.5700	4.0000	ug/L		114		43 - 134	
	MSD	1407468-61	ND	4.2292	4.0000	ug/L	7.7	106		43 - 134	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2314						
Chloride	BXD2314-BLK1	0.26200	mg/L	0.50	0.067	J
Nitrate as N	BXD2314-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXD2314-BLK1	0.30700	mg/L	1.0	0.18	J
QC Batch ID: BXD2315						
Chloride	BXD2315-BLK1	0.23500	mg/L	0.50	0.067	J
Nitrate as N	BXD2315-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXD2315-BLK1	0.30300	mg/L	1.0	0.18	J
QC Batch ID: BXD2392						
Bicarbonate	BXD2392-BLK1	ND	mg/L	5.0	5.0	
Carbonate	BXD2392-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	BXD2392-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXD2426						
Total Recoverable Calcium	BXD2426-BLK1	ND	mg/L	0.10	0.014	
Total Recoverable Magnesium	BXD2426-BLK1	0.038594	mg/L	0.050	0.019	J
Total Recoverable Sodium	BXD2426-BLK1	0.026463	mg/L	0.50	0.017	J
Total Recoverable Potassium	BXD2426-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXD2559						
Total Dissolved Solids @ 180 C	BXD2559-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXD2560						
Total Dissolved Solids @ 180 C	BXD2560-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXD2588						
Total Recoverable Calcium	BXD2588-BLK1	ND	mg/L	0.10	0.014	
Total Recoverable Magnesium	BXD2588-BLK1	0.036920	mg/L	0.050	0.019	J
Total Recoverable Sodium	BXD2588-BLK1	ND	mg/L	0.50	0.017	
Total Recoverable Potassium	BXD2588-BLK2	ND	mg/L	1.0	0.10	
QC Batch ID: BXD2591						
Nitrite as N	BXD2591-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXD2593						
Nitrite as N	BXD2593-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXE0145						

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0145						
Bicarbonate	BXE0145-BLK1	ND	mg/L	5.0	5.0	
Carbonate	BXE0145-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	BXE0145-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXE0797						
Perchlorate	BXE0797-BLK1	0.74060	ug/L	4.0	0.45	J
QC Batch ID: BXE0798						
Perchlorate	BXE0798-BLK1	ND	ug/L	4.0	0.45	
QC Batch ID: BXE0839						
Total Recoverable Calcium	BXE0839-BLK1	ND	mg/L	0.10	0.014	
Total Recoverable Magnesium	BXE0839-BLK1	ND	mg/L	0.050	0.019	
Total Recoverable Sodium	BXE0839-BLK1	0.10017	mg/L	0.50	0.017	J
Total Recoverable Potassium	BXE0839-BLK1	0.32070	mg/L	1.0	0.10	J

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXD2314										
Chloride	BXD2314-BS1	LCS	51.667	50.000	mg/L	103		90 - 110		
Nitrate as N	BXD2314-BS1	LCS	5.2160	5.0000	mg/L	104		90 - 110		
Sulfate	BXD2314-BS1	LCS	103.89	100.00	mg/L	104		90 - 110		
QC Batch ID: BXD2315										
Chloride	BXD2315-BS1	LCS	52.276	50.000	mg/L	105		90 - 110		
Nitrate as N	BXD2315-BS1	LCS	5.2550	5.0000	mg/L	105		90 - 110		
Sulfate	BXD2315-BS1	LCS	104.82	100.00	mg/L	105		90 - 110		
QC Batch ID: BXD2392										
Total Alkalinity as CaCO3	BXD2392-BS3	LCS	96.910	100.00	mg/L	96.9		90 - 110		
pH	BXD2392-BS2	LCS	7.0200	7.0000	pH Units	100		95 - 105		
QC Batch ID: BXD2393										
pH	BXD2393-BS2	LCS	7.0200	7.0000	pH Units	100		95 - 105		
QC Batch ID: BXD2426										
Total Recoverable Calcium	BXD2426-BS1	LCS	10.008	10.000	mg/L	100		85 - 115		
Total Recoverable Magnesium	BXD2426-BS1	LCS	10.600	10.000	mg/L	106		85 - 115		
Total Recoverable Sodium	BXD2426-BS1	LCS	10.201	10.000	mg/L	102		85 - 115		
Total Recoverable Potassium	BXD2426-BS1	LCS	10.103	10.000	mg/L	101		85 - 115		
QC Batch ID: BXD2559										
Total Dissolved Solids @ 180 C	BXD2559-BS1	LCS	600.00	586.00	mg/L	102		90 - 110		
QC Batch ID: BXD2560										
Total Dissolved Solids @ 180 C	BXD2560-BS1	LCS	575.00	586.00	mg/L	98.1		90 - 110		
QC Batch ID: BXD2588										
Total Recoverable Calcium	BXD2588-BS1	LCS	9.3844	10.000	mg/L	93.8		85 - 115		
Total Recoverable Magnesium	BXD2588-BS1	LCS	10.022	10.000	mg/L	100		85 - 115		
Total Recoverable Sodium	BXD2588-BS1	LCS	8.7200	10.000	mg/L	87.2		85 - 115		
Total Recoverable Potassium	BXD2588-BS2	LCS	10.122	10.000	mg/L	101		85 - 115		
QC Batch ID: BXD2591										
Nitrite as N	BXD2591-BS1	LCS	0.49687	0.50000	mg/L	99.4		90 - 110		
QC Batch ID: BXD2593										
Nitrite as N	BXD2593-BS1	LCS	0.49334	0.50000	mg/L	98.7		90 - 110		
QC Batch ID: BXE0145										
Total Alkalinity as CaCO3	BXE0145-BS3	LCS	94.930	100.00	mg/L	94.9		90 - 110		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXE0797										
Perchlorate	BXE0797-BS1	LCS	10.485	10.000	ug/L	105		85 - 115		
QC Batch ID: BXE0798										
Perchlorate	BXE0798-BS1	LCS	10.896	10.000	ug/L	109		85 - 115		
QC Batch ID: BXE0839										
Total Recoverable Calcium	BXE0839-BS1	LCS	10.213	10.000	mg/L	102		85 - 115		
Total Recoverable Magnesium	BXE0839-BS1	LCS	10.695	10.000	mg/L	107		85 - 115		
Total Recoverable Sodium	BXE0839-BS1	LCS	10.286	10.000	mg/L	103		85 - 115		
Total Recoverable Potassium	BXE0839-BS1	LCS	10.349	10.000	mg/L	103		85 - 115		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Qualls. Includes QC Batch IDs: BXD2314, BXD2315, BXD2392, BXD2393, BXD2426.

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes QC Batch IDs: BXD2426, BXD2559, BXD2560, BXD2588, BXD2591, BXD2593, BXE0145, BXE0797.

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Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXE0798		Used client sample: Y - Description: MW-20-1, 04/25/2014 09:10								
Perchlorate	DUP	1409260-07	ND	ND		ug/L			15	
	MS	1409260-07	ND	10.196	10.101	ug/L		101		80 - 120
	MSD	1409260-07	ND	10.496	10.101	ug/L	2.9	104	15	80 - 120
QC Batch ID: BXE0839		Used client sample: N								
Total Recoverable Calcium	DUP	1409849-01	21.665	21.316		mg/L	1.6		20	
	MS	1409849-01	21.665	31.817	10.000	mg/L		102		75 - 125
	MSD	1409849-01	21.665	31.052	10.000	mg/L	2.4	93.9	20	75 - 125
Total Recoverable Magnesium	DUP	1409849-01	6.1147	5.9853		mg/L	2.1		20	
	MS	1409849-01	6.1147	16.597	10.000	mg/L		105		75 - 125
	MSD	1409849-01	6.1147	16.635	10.000	mg/L	0.2	105	20	75 - 125
Total Recoverable Sodium	DUP	1409849-01	41.262	40.777		mg/L	1.2		20	
	MS	1409849-01	41.262	51.246	10.000	mg/L		99.8		75 - 125
	MSD	1409849-01	41.262	49.889	10.000	mg/L	2.7	86.3	20	75 - 125
Total Recoverable Potassium	DUP	1409849-01	2.1754	2.1088		mg/L	3.1		20	
	MS	1409849-01	2.1754	12.353	10.000	mg/L		102		75 - 125
	MSD	1409849-01	2.1754	12.216	10.000	mg/L	1.1	100	20	75 - 125

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2426						
Total Recoverable Iron	BXD2426-BLK1	20.003	ug/L	50	6.5	J
QC Batch ID: BXD2542						
Hexavalent Chromium	BXD2542-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BXD2545						
Hexavalent Chromium	BXD2545-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BXD2588						
Total Recoverable Iron	BXD2588-BLK1	35.402	ug/L	50	6.5	J
QC Batch ID: BXD2592						
Total Recoverable Arsenic	BXD2592-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	BXD2592-BLK1	0.58000	ug/L	3.0	0.50	J
Total Recoverable Lead	BXD2592-BLK1	ND	ug/L	1.0	0.10	
QC Batch ID: BXD2594						
Total Recoverable Arsenic	BXD2594-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	BXD2594-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	BXD2594-BLK1	ND	ug/L	1.0	0.10	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXD2426										
Total Recoverable Iron	BXD2426-BS1	LCS	1052.4	1000.0	ug/L	105		85	115	
QC Batch ID: BXD2542										
Hexavalent Chromium	BXD2542-BS1	LCS	0.048535	0.050000	mg/L	97.1		85	115	
QC Batch ID: BXD2545										
Hexavalent Chromium	BXD2545-BS1	LCS	0.049126	0.050000	mg/L	98.3		85	115	
QC Batch ID: BXD2588										
Total Recoverable Iron	BXD2588-BS1	LCS	1043.0	1000.0	ug/L	104		85	115	
QC Batch ID: BXD2592										
Total Recoverable Arsenic	BXD2592-BS1	LCS	101.23	100.00	ug/L	101		85	115	
Total Recoverable Chromium	BXD2592-BS1	LCS	39.785	40.000	ug/L	99.5		85	115	
Total Recoverable Lead	BXD2592-BS1	LCS	106.36	100.00	ug/L	106		85	115	
QC Batch ID: BXD2594										
Total Recoverable Arsenic	BXD2594-BS1	LCS	103.57	100.00	ug/L	104		85	115	
Total Recoverable Chromium	BXD2594-BS1	LCS	42.526	40.000	ug/L	106		85	115	
Total Recoverable Lead	BXD2594-BS1	LCS	103.77	100.00	ug/L	104		85	115	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes multiple QC batches (BXD2426, BXD2542, BXD2545, BXD2588, BXD2592, BXD2594) and various metal measurements like Iron, Chromium, Arsenic, and Lead.

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:30
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A02 The difference between duplicate readings is less than the PQL.
- A03 The sample concentration is more than 4 times the spike level.
- A10 PQL's and MDL's were raised due to matrix interference.
- S05 The sample holding time was exceeded.



Date of Report: 05/19/2014

David Conner

Tidewater Inc.

3761 Attucks Drive
Powell, OH 43065

Client Project: 2nd Qtr.
BCL Project: JPL- GW Monitoring Wells
BCL Work Order: 1409332
Invoice ID: B173476

Enclosed are the results of analyses for samples received by the laboratory on 4/28/2014. 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; AK UST101

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Chain of Custody Form

Page 1 of 1

Required Fields

Report To: Tidewater, Inc.
 Client: Tidewater, Inc. (P.O. #1213-000-02)
 Attn: David Conner
 Street Address: 3761 Altaville Drive
 City: Powell State: OH Zip: 43065
 Phone: (614) 792-2897 Fax: (614) 792-2897
 Email Address: david.conner@tidewater.net
 Submission #: 14-09332

Project Description: JPL-GW Monitoring
 Project Code: 2nd Qtr.
 Sampler(s): Blaine Tech

Analysis Requested

Sample #	Sample Description	Date	Time	Matrix*	VOCs EPA 524.2	TRM: Cr, Pb, As, Ca, Mg, K	Na, Fe	Hexavalent Cr-7196 (mg/L)	Cl, NO3, NO2, SO4, Perch.	CO2, HCO3, Alk., TDS, pH	Orthophosphate 365.1	8270 Phenols	8270 PAHs
-1	IB-6-4/28/14	4-28-14	0600	W	X	X	X	X	X	X	X	X	X
-2	EB-6-4/28/14		0630	W	X	X	X	X	X	X	X	X	X
-3	MW-17-5		0700	W	X	X	X	X	X	X	X	X	X
-4	MW-17-4		0740	W	X	X	X	X	X	X	X	X	X
-5	MW-17-3		0815	W	X	X	X	X	X	X	X	X	X
-6	MW-17-2		1030	W	X	X	X	X	X	X	X	X	X
-7	MW-17-1		1110	W	X	X	X	X	X	X	X	X	X
-8	MW-19-5		1700	W	X	X	X	X	X	X	X	X	X
-9	MW-19-4		1240	W	X	X	X	X	X	X	X	X	X
-10	MW-26-2		1330	W	X	X	X	X	X	X	X	X	X
-11	MW-26-1		1410	W	X	X	X	X	X	X	X	X	X

Notes: MS/MSD
 CHIK BY: DISTRIBUTION
 SUB-OUT

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

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

Lab TAT Approval: _____

Cost Center:
 1. Requisitioned By: [Signature] Date: 4-28-14 Time: 1630
 2. Requisitioned By: NICOLE Date: 4-28-14 Time: 1630
 3. Requisitioned By: [Signature] Date: 4-28-14 Time: 1955

Global ID:
 1. Received By: [Signature] Date: 4-28-14 Time: 1630
 2. Received By: NICOLE Date: 4-28-14 Time: 1630
 3. Received By: [Signature] Date: 4-28-14 Time: 1955

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)

Billing:
 Client: Tidewater, Inc. (P.O. #1213-000-02)
 Attn: As directed by Ben Headington
 Address: 6825 Seifick Drive, Suite A
 City: Elkridge State: MD Zip: 21076
 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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BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 15 07/01/13 Page 1 of 2

Submission #: 1409332

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: 0.95 Container: PE Thermometer ID: 207 Date/Time: 4/28/14 1955
 Temperature: (A) 1.7 °C / (C) 1.7 °C Analyst Init: BFP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/GENERAL	B	B	B	B	B	B	B	B	B	B
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS	C	C	C	C	C	C	C	C	C	C
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	A1									
40ml VOA VIAL		A3	A3	A3	A3	A3	A3	A3	A3	A3
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150 8270 080					DE					
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: 1 vial of - Sals labeled 17-18 but time matches 5 VOA's
 Sample Numbering Completed By: BFP Date/Time: 4/28/14 2117



BC LABORATORIES INC.

COOLER RECEIPT FORM

Rev. No. 15 07/01/13

Page 2 Of 2

Submission #: 1409332

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: _____

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: 0.95 Container: PE Thermometer ID: 207
Temperature: (A) 1.7 °C (C) 1.7 °C

Date/Time: 1/28/14 1955
Analyst Init: BCP

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

Comments: _____

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1409332-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-6-4/28/14 Sampled By: Blaine Tech of BAT	Receive Date: 04/28/2014 19:55 Sampling Date: 04/28/2014 06:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-6-4/28/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1409332-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: EB-6-4/28/14 Sampled By: Blaine Tech of BAT	Receive Date: 04/28/2014 19:55 Sampling Date: 04/28/2014 06:20 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-6-4/28/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1409332-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-17-5 Sampled By: Blaine Tech of BAT	Receive Date: 04/28/2014 19:55 Sampling Date: 04/28/2014 07:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-17-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1409332-04	COC Number: ---	Receive Date: 04/28/2014 19:55
	Project Number: JPL-GW	Sampling Date: 04/28/2014 07:40
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-17-4	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Water
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-17-4
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1409332-05	COC Number: ---	Receive Date: 04/28/2014 19:55
	Project Number: JPL-GW	Sampling Date: 04/28/2014 08:15
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-17-3	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Water
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-17-3
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1409332-06	COC Number: ---	Receive Date: 04/28/2014 19:55
	Project Number: JPL-GW	Sampling Date: 04/28/2014 10:30
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-17-2	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Water
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-17-2
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1409332-07	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-17-1 Sampled By: Blaine Tech of BAT	Receive Date: 04/28/2014 19:55 Sampling Date: 04/28/2014 11:10 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-17-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1409332-08	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-19-5 Sampled By: Blaine Tech of BAT	Receive Date: 04/28/2014 19:55 Sampling Date: 04/28/2014 12:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-19-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1409332-09	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-19-4 Sampled By: Blaine Tech of BAT	Receive Date: 04/28/2014 19:55 Sampling Date: 04/28/2014 12:40 Sample Depth: --- Lab Matrix: Water Sample Type: 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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1409332-10	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-26-2 Sampled By: Blaine Tech of BAT	Receive Date: 04/28/2014 19:55 Sampling Date: 04/28/2014 13:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-26-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1409332-11	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-26-1 Sampled By: Blaine Tech of BAT	Receive Date: 04/28/2014 19:55 Sampling Date: 04/28/2014 14:10 Sample Depth: --- Lab Matrix: Water Sample Type: 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: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409332-01	Client Sample Name: JPL-GW, TB-6-4/28/14, 4/28/2014 6:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	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: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409332-01 **Client Sample Name:** JPL-GW, TB-6-4/28/14, 4/28/2014 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: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409332-01	Client Sample Name: JPL-GW, TB-6-4/28/14, 4/28/2014 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		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)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.2	%	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	04/29/14	04/29/14 12:51	MGC	MS-V5	1	BXD2412

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409332-01	Client Sample Name: JPL-GW, TB-6-4/28/14, 4/28/2014 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	04/29/14	04/29/14 12:51	MGC	MS-V5	1	BXD2412

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Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409332-02	Client Sample Name: JPL-GW, EB-6-4/28/14, 4/28/2014 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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409332-02	Client Sample Name: JPL-GW, EB-6-4/28/14, 4/28/2014 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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409332-02	Client Sample Name: JPL-GW, EB-6-4/28/14, 4/28/2014 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		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)	99.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/29/14	04/29/14 13:14	MGC	MS-V5	1	BXD2412

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409332-02	Client Sample Name: JPL-GW, EB-6-4/28/14, 4/28/2014 6:20:00AM, 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	04/29/14	04/29/14 13:14	MGC	MS-V5	1	BXD2412

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Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

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

Table with 8 columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID. Rows correspond to runs 1 through 8.

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409332-02	Client Sample Name: JPL-GW, EB-6-4/28/14, 4/28/2014 6:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		1
Total Recoverable Iron	ND	ug/L	50	6.5	EPA-200.7	29		2
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	05/02/14	05/06/14 03:53	EAR	PE-EL2	1	BXE0225
2	EPA-200.7	05/01/14	05/01/14 22:54	JRG	PE-OP2	1	BXE0109

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Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409332-03	Client Sample Name: JPL-GW, MW-17-5, 4/28/2014 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	1.0	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.89	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: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409332-03	Client Sample Name: JPL-GW, MW-17-5, 4/28/2014 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	0.55	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	3.3	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: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409332-03	Client Sample Name: JPL-GW, MW-17-5, 4/28/2014 7:00:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	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)	93.4	%	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	04/29/14	04/29/14 13:37	MGC	MS-V5	1	BXD2412

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409332-03	Client Sample Name: JPL-GW, MW-17-5, 4/28/2014 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	04/29/14	04/29/14 13:37	MGC	MS-V5	1	BXD2412

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409332-03		Client Sample Name: JPL-GW, MW-17-5, 4/28/2014 7:00:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	43	mg/L	0.10	0.018	EPA-200.7	0.020		1
Total Recoverable Magnesium	13	mg/L	0.050	0.020	EPA-200.7	0.032		2
Total Recoverable Sodium	48	mg/L	0.50	0.017	EPA-200.7	0.057		1
Total Recoverable Potassium	1.9	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	190	mg/L	5.0	5.0	SM-2320B	ND		3
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		3
Total Alkalinity as CaCO3	160	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	27	mg/L	0.50	0.067	EPA-300.0	ND		4
Nitrate as N	3.9	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	35	mg/L	1.0	0.18	EPA-300.0	ND		4
pH	8.16	pH Units	0.05	0.05	EPA-150.1		S05	5
Total Dissolved Solids @ 180 C	280	mg/L	20	20	EPA-160.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND	B04,V12	7
Perchlorate	15	ug/L	4.0	0.45	EPA-314.0	ND		8

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-200.7	05/01/14	05/01/14	23:04	JRG	PE-OP2	1	BXE0109	
2	EPA-200.7	05/01/14	05/07/14	12:54	JRG	PE-OP2	1	BXE0109	
3	SM-2320B	04/29/14	04/29/14	15:55	RML	MET-1	1	BXD2513	
4	EPA-300.0	04/28/14	04/29/14	01:36	LD1	IC2	1	BXD2405	
5	EPA-150.1	04/29/14	04/29/14	15:55	RML	MET-1	1	BXD2513	
6	EPA-160.1	05/01/14	05/01/14	14:30	FRP	MANUAL	2	BXE0142	
7	EPA-353.2	04/29/14	04/29/14	09:49	TDC	KONE-1	1	BXE0104	
8	EPA-314.0	05/08/14	05/08/14	23:10	OLH	IC6	1	BXE0933	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409332-03	Client Sample Name: JPL-GW, MW-17-5, 4/28/2014 7:00:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Arsenic	3.3	ug/L	2.0	0.70	EPA-200.8	ND		1
Total Recoverable Chromium	1.5	ug/L	3.0	0.50	EPA-200.8	ND	J	1
Total Recoverable Iron	310	ug/L	50	6.5	EPA-200.7	29		2
Total Recoverable Lead	0.25	ug/L	1.0	0.10	EPA-200.8	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	05/02/14	05/06/14 03:56	EAR	PE-EL2	1	BXE0225
2	EPA-200.7	05/01/14	05/01/14 23:04	JRG	PE-OP2	1	BXE0109

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Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409332-04	Client Sample Name: JPL-GW, MW-17-4, 4/28/2014 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	0.78	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.62	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: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409332-04	Client Sample Name: JPL-GW, MW-17-4, 4/28/2014 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	0.41	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	2.4	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409332-04	Client Sample Name: JPL-GW, MW-17-4, 4/28/2014 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		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)	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	04/29/14	04/29/14 13:59	MGC	MS-V5	1	BXD2412

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409332-04	Client Sample Name: JPL-GW, MW-17-4, 4/28/2014 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	04/29/14	04/29/14 13:59	MGC	MS-V5	1	BXD2412

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409332-04		Client Sample Name: JPL-GW, MW-17-4, 4/28/2014 7:40:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	51	mg/L	0.10	0.018	EPA-200.7	0.020		1
Total Recoverable Magnesium	15	mg/L	0.050	0.020	EPA-200.7	0.032		2
Total Recoverable Sodium	41	mg/L	0.50	0.017	EPA-200.7	0.057		1
Total Recoverable Potassium	2.1	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	200	mg/L	5.0	5.0	SM-2320B	ND		3
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		3
Total Alkalinity as CaCO3	170	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	29	mg/L	0.50	0.067	EPA-300.0	ND		4
Nitrate as N	4.5	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	36	mg/L	1.0	0.18	EPA-300.0	ND		4
pH	7.91	pH Units	0.05	0.05	EPA-150.1		S05	5
Total Dissolved Solids @ 180 C	320	mg/L	20	20	EPA-160.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND	B04,V12	7
Perchlorate	17	ug/L	4.0	0.45	EPA-314.0	ND		8

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-200.7	05/01/14	05/01/14	23:07	JRG	PE-OP2	1	BXE0109	
2	EPA-200.7	05/01/14	05/07/14	12:56	JRG	PE-OP2	1	BXE0109	
3	SM-2320B	04/29/14	04/29/14	16:01	RML	MET-1	1	BXD2513	
4	EPA-300.0	04/28/14	04/29/14	01:51	LD1	IC2	1	BXD2405	
5	EPA-150.1	04/29/14	04/29/14	16:01	RML	MET-1	1	BXD2513	
6	EPA-160.1	05/01/14	05/01/14	14:30	FRP	MANUAL	2	BXE0142	
7	EPA-353.2	04/29/14	04/29/14	09:49	TDC	KONE-1	1	BXE0104	
8	EPA-314.0	05/08/14	05/08/14	23:51	OLH	IC6	1	BXE0933	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409332-04	Client Sample Name: JPL-GW, MW-17-4, 4/28/2014 7:40:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Arsenic	1.9	ug/L	2.0	0.70	EPA-200.8	ND	J	1
Total Recoverable Chromium	2.5	ug/L	3.0	0.50	EPA-200.8	ND	J	1
Total Recoverable Iron	100	ug/L	50	6.5	EPA-200.7	29		2
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	05/02/14	05/06/14 04:00	EAR	PE-EL2	1	BXE0225
2	EPA-200.7	05/01/14	05/01/14 23:07	JRG	PE-OP2	1	BXE0109

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Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409332-05	Client Sample Name: JPL-GW, MW-17-3, 4/28/2014 8:15:00AM, 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	0.20	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409332-05	Client Sample Name: JPL-GW, MW-17-3, 4/28/2014 8:15:00AM, 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	0.17	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.21	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409332-05	Client Sample Name: JPL-GW, MW-17-3, 4/28/2014 8:15:00AM, 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		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)	114	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	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	04/29/14	04/29/14 14:21	MGC	MS-V5	1	BXD2294

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409332-05	Client Sample Name: JPL-GW, MW-17-3, 4/28/2014 8:15:00AM, 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	04/29/14	04/29/14 14:21	MGC	MS-V5	1	BXD2294

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Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

BCL Sample ID: 1409332-05	Client Sample Name: JPL-GW, MW-17-3, 4/28/2014 8:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Acenaphthylene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Anthracene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Benzo[a]anthracene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Benzo[b]fluoranthene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Benzo[k]fluoranthene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Benzo[a]pyrene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Benzo[g,h,i]perylene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Chrysene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Fluoranthene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Fluorene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Naphthalene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Phenanthrene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Pyrene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Nitrobenzene-d5 (Surrogate)	95.0	%	42 - 130 (LCL - UCL)		EPA-8270C-SIM			1
2-Fluorobiphenyl (Surrogate)	88.6	%	50 - 116 (LCL - UCL)		EPA-8270C-SIM			1
p-Terphenyl-d14 (Surrogate)	107	%	43 - 134 (LCL - UCL)		EPA-8270C-SIM			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C-SIM	04/30/14	05/05/14 17:32	MK1	MS-B7	0.990	BXE0478

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Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409332-05		Client Sample Name: JPL-GW, MW-17-3, 4/28/2014 8:15:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	58	mg/L	0.10	0.018	EPA-200.7	0.020		1
Total Recoverable Magnesium	32	mg/L	0.050	0.020	EPA-200.7	0.032		2
Total Recoverable Sodium	28	mg/L	0.50	0.017	EPA-200.7	0.057		1
Total Recoverable Potassium	2.9	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	190	mg/L	5.0	5.0	SM-2320B	ND		3
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		3
Total Alkalinity as CaCO3	150	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	52	mg/L	0.50	0.067	EPA-300.0	ND		4
Nitrate as N	8.8	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	54	mg/L	1.0	0.18	EPA-300.0	ND		4
pH	8.06	pH Units	0.05	0.05	EPA-150.1		S05	5
Total Dissolved Solids @ 180 C	380	mg/L	20	20	EPA-160.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND	B04,V12	7
Perchlorate	7.6	ug/L	4.0	0.45	EPA-314.0	ND		8

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-200.7	05/01/14	05/01/14	23:09	JRG	PE-OP2	1	BXE0109	
2	EPA-200.7	05/01/14	05/07/14	12:59	JRG	PE-OP2	1	BXE0109	
3	SM-2320B	04/29/14	04/29/14	16:24	RML	MET-1	1	BXD2514	
4	EPA-300.0	04/28/14	04/29/14	02:07	LD1	IC2	1	BXD2405	
5	EPA-150.1	04/29/14	04/29/14	16:24	RML	MET-1	1	BXD2514	
6	EPA-160.1	05/01/14	05/01/14	14:30	FRP	MANUAL	2	BXE0142	
7	EPA-353.2	04/29/14	04/29/14	09:49	TDC	KONE-1	1	BXE0104	
8	EPA-314.0	05/08/14	05/09/14	00:05	OLH	IC6	1	BXE0933	

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3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409332-05	Client Sample Name: JPL-GW, MW-17-3, 4/28/2014 8:15:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Arsenic	1.0	ug/L	2.0	0.70	EPA-200.8	ND	J	1
Total Recoverable Chromium	1.2	ug/L	3.0	0.50	EPA-200.8	ND	J	1
Total Recoverable Iron	110	ug/L	50	6.5	EPA-200.7	29		2
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	05/02/14	05/06/14 04:03	EAR	PE-EL2	1	BXE0225
2	EPA-200.7	05/01/14	05/01/14 23:09	JRG	PE-OP2	1	BXE0109

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Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409332-06	Client Sample Name: JPL-GW, MW-17-2, 4/28/2014 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
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: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409332-06	Client Sample Name: JPL-GW, MW-17-2, 4/28/2014 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
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: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409332-06	Client Sample Name: JPL-GW, MW-17-2, 4/28/2014 10:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	114	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/29/14	04/29/14 14:44	MGC	MS-V5	1	BXD2294

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Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409332-06	Client Sample Name: JPL-GW, MW-17-2, 4/28/2014 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	04/29/14	04/29/14 14:44	MGC	MS-V5	1	BXD2294

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409332-06		Client Sample Name: JPL-GW, MW-17-2, 4/28/2014 10:30:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	54	mg/L	0.10	0.018	EPA-200.7	0.020		1
Total Recoverable Magnesium	19	mg/L	0.050	0.020	EPA-200.7	0.032		2
Total Recoverable Sodium	18	mg/L	0.50	0.017	EPA-200.7	0.057		1
Total Recoverable Potassium	2.7	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	240	mg/L	5.0	5.0	SM-2320B	ND		3
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		3
Total Alkalinity as CaCO3	200	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	9.2	mg/L	0.50	0.067	EPA-300.0	ND		4
Nitrate as N	ND	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	23	mg/L	1.0	0.18	EPA-300.0	ND		4
pH	7.84	pH Units	0.05	0.05	EPA-150.1		S05	5
Total Dissolved Solids @ 180 C	270	mg/L	20	20	EPA-160.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		7
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		8

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-200.7	05/01/14	05/01/14	23:12	JRG	PE-OP2	1	BXE0109	
2	EPA-200.7	05/01/14	05/07/14	13:01	JRG	PE-OP2	1	BXE0109	
3	SM-2320B	04/29/14	04/29/14	16:36	RML	MET-1	1	BXD2514	
4	EPA-300.0	04/28/14	04/29/14	02:22	LD1	IC2	1	BXD2405	
5	EPA-150.1	04/29/14	04/29/14	16:36	RML	MET-1	1	BXD2514	
6	EPA-160.1	05/01/14	05/01/14	14:30	FRP	MANUAL	2	BXE0142	
7	EPA-353.2	04/29/14	04/29/14	09:49	TDC	KONE-1	1	BXE0104	
8	EPA-314.0	05/08/14	05/09/14	00:19	OLH	IC6	1	BXE0933	

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Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409332-06	Client Sample Name: JPL-GW, MW-17-2, 4/28/2014 10:30:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		1
Total Recoverable Iron	850	ug/L	50	6.5	EPA-200.7	29		2
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	05/02/14	05/06/14 04:06	EAR	PE-EL2	1	BXE0225
2	EPA-200.7	05/01/14	05/01/14 23:12	JRG	PE-OP2	1	BXE0109

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Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409332-07	Client Sample Name: JPL-GW, MW-17-1, 4/28/2014 11:10:00AM, 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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409332-07	Client Sample Name: JPL-GW, MW-17-1, 4/28/2014 11:10:00AM, 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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409332-07	Client Sample Name: JPL-GW, MW-17-1, 4/28/2014 11:10:00AM, 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		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)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/29/14	04/29/14 15:07	MGC	MS-V5	1	BXD2412

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409332-07	Client Sample Name: JPL-GW, MW-17-1, 4/28/2014 11:10:00AM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/29/14	04/29/14 15:07	MGC	MS-V5	1	BXD2412

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409332-07		Client Sample Name: JPL-GW, MW-17-1, 4/28/2014 11:10:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	52	mg/L	0.10	0.018	EPA-200.7	0.020		1
Total Recoverable Magnesium	19	mg/L	0.050	0.020	EPA-200.7	0.032		2
Total Recoverable Sodium	19	mg/L	0.50	0.017	EPA-200.7	0.057		1
Total Recoverable Potassium	2.8	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	230	mg/L	5.0	5.0	SM-2320B	ND		3
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		3
Total Alkalinity as CaCO3	190	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	9.8	mg/L	0.50	0.067	EPA-300.0	ND		4
Nitrate as N	0.32	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	27	mg/L	1.0	0.18	EPA-300.0	ND		4
pH	7.83	pH Units	0.05	0.05	EPA-150.1		S05	5
Total Dissolved Solids @ 180 C	280	mg/L	20	20	EPA-160.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		7
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		8

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-200.7	05/01/14	05/01/14 22:40	JRG	PE-OP2	1	BXE0109
2	EPA-200.7	05/01/14	05/07/14 12:27	JRG	PE-OP2	1	BXE0109
3	SM-2320B	04/29/14	04/29/14 16:43	RML	MET-1	1	BXD2514
4	EPA-300.0	04/28/14	04/29/14 02:37	LD1	IC2	1	BXD2405
5	EPA-150.1	04/29/14	04/29/14 16:43	RML	MET-1	1	BXD2514
6	EPA-160.1	05/01/14	05/01/14 14:30	FRP	MANUAL	2	BXE0142
7	EPA-353.2	04/29/14	04/29/14 09:33	TDC	KONE-1	1	BXE0104
8	EPA-314.0	05/08/14	05/08/14 22:01	OLH	IC6	1	BXE0933

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409332-07	Client Sample Name: JPL-GW, MW-17-1, 4/28/2014 11:10:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		1
Total Recoverable Iron	87	ug/L	50	6.5	EPA-200.7	29		2
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	05/02/14	05/06/14 02:23	EAR	PE-EL2	1	BXE0225
2	EPA-200.7	05/01/14	05/01/14 22:40	JRG	PE-OP2	1	BXE0109

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Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409332-08	Client Sample Name: JPL-GW, MW-19-5, 4/28/2014 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	0.21	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409332-08	Client Sample Name: JPL-GW, MW-19-5, 4/28/2014 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
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.56	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.090	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409332-08	Client Sample Name: JPL-GW, MW-19-5, 4/28/2014 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		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)	111	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	85.5	%	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	04/29/14	04/29/14 15:29	MGC	MS-V5	1	BXD2294

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409332-08	Client Sample Name: JPL-GW, MW-19-5, 4/28/2014 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	04/29/14	04/29/14 15:29	MGC	MS-V5	1	BXD2294

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409332-08		Client Sample Name: JPL-GW, MW-19-5, 4/28/2014 12:00:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	61	mg/L	0.10	0.018	EPA-200.7	0.020		1
Total Recoverable Magnesium	29	mg/L	0.050	0.020	EPA-200.7	0.032		2
Total Recoverable Sodium	30	mg/L	0.50	0.017	EPA-200.7	0.057		1
Total Recoverable Potassium	2.5	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	220	mg/L	5.0	5.0	SM-2320B	ND		3
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		3
Total Alkalinity as CaCO3	180	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	47	mg/L	0.50	0.067	EPA-300.0	ND		4
Nitrate as N	8.1	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	47	mg/L	1.0	0.18	EPA-300.0	ND		4
pH	8.02	pH Units	0.05	0.05	EPA-150.1		S05	5
Total Dissolved Solids @ 180 C	410	mg/L	20	20	EPA-160.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		7
Perchlorate	3.1	ug/L	4.0	0.45	EPA-314.0	ND	J	8

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-200.7	05/01/14	05/01/14	23:14	JRG	PE-OP2	1	BXE0109	
2	EPA-200.7	05/01/14	05/07/14	13:04	JRG	PE-OP2	1	BXE0109	
3	SM-2320B	04/29/14	04/29/14	16:50	RML	MET-1	1	BXD2514	
4	EPA-300.0	04/28/14	04/29/14	04:08	LD1	IC2	1	BXD2405	
5	EPA-150.1	04/29/14	04/29/14	16:50	RML	MET-1	1	BXD2514	
6	EPA-160.1	05/01/14	05/01/14	14:30	FRP	MANUAL	2	BXE0142	
7	EPA-353.2	04/29/14	04/29/14	09:49	TDC	KONE-1	1	BXE0104	
8	EPA-314.0	05/08/14	05/09/14	00:33	OLH	IC6	1	BXE0933	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409332-08	Client Sample Name: JPL-GW, MW-19-5, 4/28/2014 12:00:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Arsenic	1.5	ug/L	2.0	0.70	EPA-200.8	ND	J	1
Total Recoverable Chromium	1.4	ug/L	3.0	0.50	EPA-200.8	ND	J	1
Total Recoverable Iron	20	ug/L	50	6.5	EPA-200.7	29	J	2
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	05/02/14	05/06/14 04:09	EAR	PE-EL2	1	BXE0225
2	EPA-200.7	05/01/14	05/01/14 23:14	JRG	PE-OP2	1	BXE0109

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Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409332-09	Client Sample Name: JPL-GW, MW-19-4, 4/28/2014 12:40:00PM, 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
Chloroform	0.23	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409332-09	Client Sample Name: JPL-GW, MW-19-4, 4/28/2014 12:40:00PM, 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	0.47	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.090	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409332-09	Client Sample Name: JPL-GW, MW-19-4, 4/28/2014 12:40:00PM, 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		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)	117	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	96.7	%	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	04/29/14	04/29/14 15:52	MGC	MS-V5	1	BXD2294

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Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409332-09	Client Sample Name: JPL-GW, MW-19-4, 4/28/2014 12:40:00PM, 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	04/29/14	04/29/14 15:52	MGC	MS-V5	1	BXD2294

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Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409332-09		Client Sample Name: JPL-GW, MW-19-4, 4/28/2014 12:40:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	71	mg/L	0.10	0.018	EPA-200.7	0.020		1
Total Recoverable Magnesium	28	mg/L	0.050	0.020	EPA-200.7	0.032		2
Total Recoverable Sodium	31	mg/L	0.50	0.017	EPA-200.7	0.057		1
Total Recoverable Potassium	2.4	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	220	mg/L	5.0	5.0	SM-2320B	ND		3
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		3
Total Alkalinity as CaCO3	180	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	45	mg/L	0.50	0.067	EPA-300.0	ND		4
Nitrate as N	9.0	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	44	mg/L	1.0	0.18	EPA-300.0	ND		4
pH	7.76	pH Units	0.05	0.05	EPA-150.1		S05	5
Total Dissolved Solids @ 180 C	410	mg/L	20	20	EPA-160.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		7
Perchlorate	3.3	ug/L	4.0	0.45	EPA-314.0	ND	J	8

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	05/01/14	05/01/14	23:16	JRG	PE-OP2	1	BXE0109
2	EPA-200.7	05/01/14	05/07/14	13:06	JRG	PE-OP2	1	BXE0109
3	SM-2320B	04/29/14	04/29/14	16:56	RML	MET-1	1	BXD2514
4	EPA-300.0	04/28/14	04/29/14	04:23	LD1	IC2	1	BXD2405
5	EPA-150.1	04/29/14	04/29/14	16:56	RML	MET-1	1	BXD2514
6	EPA-160.1	05/01/14	05/01/14	14:30	FRP	MANUAL	2	BXE0142
7	EPA-353.2	04/29/14	04/29/14	09:49	TDC	KONE-1	1	BXE0104
8	EPA-314.0	05/08/14	05/09/14	00:47	OLH	IC6	1	BXE0933

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Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409332-09	Client Sample Name: JPL-GW, MW-19-4, 4/28/2014 12:40:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Arsenic	1.3	ug/L	2.0	0.70	EPA-200.8	ND	J	1
Total Recoverable Chromium	2.6	ug/L	3.0	0.50	EPA-200.8	ND	J	1
Total Recoverable Iron	48	ug/L	50	6.5	EPA-200.7	29	J	2
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	05/02/14	05/06/14 04:12	EAR	PE-EL2	1	BXE0225
2	EPA-200.7	05/01/14	05/01/14 23:16	JRG	PE-OP2	1	BXE0109

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Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409332-10 **Client Sample Name:** JPL-GW, MW-26-2, 4/28/2014 1:30:00PM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	0.19	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	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	1.3	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	0.10	ug/L	0.50	0.085	EPA-524.2	ND	J	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409332-10	Client Sample Name: JPL-GW, MW-26-2, 4/28/2014 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	2.2	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.32	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409332-10	Client Sample Name: JPL-GW, MW-26-2, 4/28/2014 1:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	113	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	98.7	%	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	04/29/14	04/29/14 16:14	MGC	MS-V5	1	BXD2294

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409332-10	Client Sample Name: JPL-GW, MW-26-2, 4/28/2014 1:30:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/29/14	04/29/14 16:14	MGC	MS-V5	1	BXD2294

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409332-10		Client Sample Name: JPL-GW, MW-26-2, 4/28/2014 1:30:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	73	mg/L	0.10	0.018	EPA-200.7	0.020		1
Total Recoverable Magnesium	35	mg/L	0.050	0.020	EPA-200.7	0.032		2
Total Recoverable Sodium	52	mg/L	0.50	0.017	EPA-200.7	0.057		1
Total Recoverable Potassium	3.1	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	240	mg/L	5.0	5.0	SM-2320B	ND		3
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		3
Total Alkalinity as CaCO3	200	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	66	mg/L	0.50	0.067	EPA-300.0	ND		4
Nitrate as N	5.9	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	74	mg/L	1.0	0.18	EPA-300.0	ND		4
pH	8.08	pH Units	0.05	0.05	EPA-150.1		S05	5
Total Dissolved Solids @ 180 C	470	mg/L	33	33	EPA-160.1	ND		6
Nitrite as N	0.91	mg/L	0.050	0.012	EPA-353.2	ND	B04,V12	7
Perchlorate	2.3	ug/L	4.0	0.45	EPA-314.0	ND	J	8

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-200.7	05/01/14	05/01/14	23:19	JRG	PE-OP2	1	BXE0109	
2	EPA-200.7	05/01/14	05/07/14	13:09	JRG	PE-OP2	1	BXE0109	
3	SM-2320B	04/29/14	04/29/14	17:03	RML	MET-1	1	BXD2514	
4	EPA-300.0	04/28/14	04/29/14	04:38	LD1	IC2	1	BXD2405	
5	EPA-150.1	04/29/14	04/29/14	17:03	RML	MET-1	1	BXD2514	
6	EPA-160.1	05/01/14	05/01/14	14:30	FRP	MANUAL	3.333	BXE0142	
7	EPA-353.2	04/29/14	04/29/14	09:43	TDC	KONE-1	1	BXE0104	
8	EPA-314.0	05/08/14	05/09/14	01:01	OLH	IC6	1	BXE0933	

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3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409332-10	Client Sample Name: JPL-GW, MW-26-2, 4/28/2014 1:30:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Arsenic	2.3	ug/L	2.0	0.70	EPA-200.8	ND		1
Total Recoverable Chromium	5.0	ug/L	3.0	0.50	EPA-200.8	ND		1
Total Recoverable Iron	2100	ug/L	50	6.5	EPA-200.7	29		2
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	05/02/14	05/06/14 04:16	EAR	PE-EL2	1	BXE0225
2	EPA-200.7	05/01/14	05/01/14 23:19	JRG	PE-OP2	1	BXE0109

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Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409332-11	Client Sample Name: JPL-GW, MW-26-1, 4/28/2014 2:10:00PM, 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
Chloroform	0.30	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409332-11	Client Sample Name: JPL-GW, MW-26-1, 4/28/2014 2:10:00PM, 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
Tetrachloroethene	0.54	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.43	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409332-11	Client Sample Name: JPL-GW, MW-26-1, 4/28/2014 2:10:00PM, 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		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)	115	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	103	%	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	04/29/14	04/29/14 16:37	MGC	MS-V5	1	BXD2294

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409332-11	Client Sample Name: JPL-GW, MW-26-1, 4/28/2014 2:10:00PM, 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	04/29/14	04/29/14 16:37	MGC	MS-V5	1	BXD2294

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Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID:	1409332-11	Client Sample Name:	JPL-GW, MW-26-1, 4/28/2014 2:10:00PM, Blaine Tech					
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	110	mg/L	0.10	0.018	EPA-200.7	0.020		1
Total Recoverable Magnesium	45	mg/L	0.050	0.020	EPA-200.7	0.032		2
Total Recoverable Sodium	35	mg/L	0.50	0.017	EPA-200.7	0.057		1
Total Recoverable Potassium	3.2	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	290	mg/L	5.0	5.0	SM-2320B	ND		3
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		3
Total Alkalinity as CaCO3	240	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	75	mg/L	0.50	0.067	EPA-300.0	ND		4
Nitrate as N	7.7	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	110	mg/L	1.0	0.18	EPA-300.0	ND		4
pH	7.56	pH Units	0.05	0.05	EPA-150.1		S05	5
Total Dissolved Solids @ 180 C	580	mg/L	33	33	EPA-160.1	ND		6
Nitrite as N	0.71	mg/L	0.050	0.012	EPA-353.2	ND	B04,V12	7
Perchlorate	2.5	ug/L	4.0	0.45	EPA-314.0	ND	J	8

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	05/01/14	05/01/14 23:21	JRG	PE-OP2	1	BXE0109
2	EPA-200.7	05/01/14	05/07/14 13:11	JRG	PE-OP2	1	BXE0109
3	SM-2320B	04/29/14	04/29/14 17:10	RML	MET-1	1	BXD2514
4	EPA-300.0	04/28/14	04/29/14 04:53	LD1	IC2	1	BXD2405
5	EPA-150.1	04/29/14	04/29/14 17:10	RML	MET-1	1	BXD2514
6	EPA-160.1	05/01/14	05/01/14 14:30	FRP	MANUAL	3.333	BXE0142
7	EPA-353.2	04/29/14	04/29/14 09:43	TDC	KONE-1	1	BXE0104
8	EPA-314.0	05/08/14	05/09/14 01:14	LD1	IC6	1	BXE0933

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3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409332-11	Client Sample Name: JPL-GW, MW-26-1, 4/28/2014 2:10:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		1
Total Recoverable Iron	1800	ug/L	50	6.5	EPA-200.7	29		2
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	05/02/14	05/06/14 04:19	EAR	PE-EL2	1	BXE0225
2	EPA-200.7	05/01/14	05/01/14 23:21	JRG	PE-OP2	1	BXE0109

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Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2294						
Benzene	BXD2294-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXD2294-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXD2294-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXD2294-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXD2294-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXD2294-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXD2294-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXD2294-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXD2294-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXD2294-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXD2294-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXD2294-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXD2294-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXD2294-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXD2294-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXD2294-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BXD2294-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXD2294-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXD2294-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXD2294-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXD2294-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXD2294-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXD2294-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXD2294-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXD2294-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXD2294-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXD2294-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXD2294-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXD2294-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXD2294-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXD2294-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXD2294-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXD2294-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXD2294-BLK1	ND	ug/L	0.50	0.14	

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Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2294						
trans-1,3-Dichloropropene	BXD2294-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXD2294-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXD2294-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXD2294-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXD2294-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXD2294-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXD2294-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXD2294-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXD2294-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXD2294-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXD2294-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BXD2294-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BXD2294-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXD2294-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXD2294-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXD2294-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BXD2294-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXD2294-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXD2294-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXD2294-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXD2294-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXD2294-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXD2294-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXD2294-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXD2294-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXD2294-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXD2294-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXD2294-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXD2294-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXD2294-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXD2294-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXD2294-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXD2294-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXD2294-BLK1	ND	ug/L	4.0	0.97	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
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QC Batch ID: BXD2294

Ethyl t-butyl ether	BXD2294-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXD2294-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXD2294-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXD2294-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXD2294-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXD2294-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXD2294-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXD2294-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXD2294-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXD2294-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXD2294-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXD2294-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXD2294-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BXD2294-BLK1	105	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BXD2294-BLK1	98.0	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BXD2294-BLK1	93.2	%	80 - 120 (LCL - UCL)		

QC Batch ID: BXD2412

Benzene	BXD2412-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXD2412-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXD2412-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXD2412-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXD2412-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXD2412-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXD2412-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXD2412-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXD2412-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXD2412-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXD2412-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXD2412-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXD2412-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXD2412-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXD2412-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXD2412-BLK1	ND	ug/L	0.50	0.15	

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Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2412						
Dibromochloromethane	BXD2412-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXD2412-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXD2412-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXD2412-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXD2412-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXD2412-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXD2412-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXD2412-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXD2412-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXD2412-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXD2412-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXD2412-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXD2412-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXD2412-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXD2412-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXD2412-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXD2412-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXD2412-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	BXD2412-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXD2412-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXD2412-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXD2412-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXD2412-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXD2412-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXD2412-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXD2412-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXD2412-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXD2412-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXD2412-BLK1	ND	ug/L	0.50	0.18	
1,1,1,2,2-Tetrachloroethane	BXD2412-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BXD2412-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXD2412-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXD2412-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXD2412-BLK1	ND	ug/L	0.50	0.19	

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3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2412						
1,1,1-Trichloroethane	BXD2412-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXD2412-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXD2412-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXD2412-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXD2412-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXD2412-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXD2412-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXD2412-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXD2412-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXD2412-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXD2412-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXD2412-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXD2412-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXD2412-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXD2412-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXD2412-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXD2412-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXD2412-BLK1	ND	ug/L	4.0	0.97	
Ethyl t-butyl ether	BXD2412-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXD2412-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXD2412-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXD2412-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXD2412-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXD2412-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXD2412-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXD2412-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXD2412-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXD2412-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXD2412-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXD2412-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXD2412-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BXD2412-BLK1	105	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BXD2412-BLK1	102	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BXD2412-BLK1	91.4	%	80 - 120 (LCL - UCL)		

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Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXD2294										
Benzene	BXD2294-BS1	LCS	22.530	25.000	ug/L	90.1		70 - 130		
Bromodichloromethane	BXD2294-BS1	LCS	29.820	25.000	ug/L	119		70 - 130		
Chlorobenzene	BXD2294-BS1	LCS	24.800	25.000	ug/L	99.2		70 - 130		
Chloroethane	BXD2294-BS1	LCS	24.580	25.000	ug/L	98.3		70 - 130		
1,4-Dichlorobenzene	BXD2294-BS1	LCS	27.380	25.000	ug/L	110		70 - 130		
1,1-Dichloroethane	BXD2294-BS1	LCS	24.680	25.000	ug/L	98.7		70 - 130		
1,1-Dichloroethene	BXD2294-BS1	LCS	25.820	25.000	ug/L	103		70 - 130		
Toluene	BXD2294-BS1	LCS	24.670	25.000	ug/L	98.7		70 - 130		
Trichloroethene	BXD2294-BS1	LCS	26.370	25.000	ug/L	105		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXD2294-BS1	LCS	11.150	10.000	ug/L	112		75 - 125		
Toluene-d8 (Surrogate)	BXD2294-BS1	LCS	10.070	10.000	ug/L	101		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXD2294-BS1	LCS	11.410	10.000	ug/L	114		80 - 120		
QC Batch ID: BXD2412										
Benzene	BXD2412-BS1	LCS	21.340	25.000	ug/L	85.4		70 - 130		
Bromodichloromethane	BXD2412-BS1	LCS	30.170	25.000	ug/L	121		70 - 130		
Chlorobenzene	BXD2412-BS1	LCS	24.680	25.000	ug/L	98.7		70 - 130		
Chloroethane	BXD2412-BS1	LCS	22.790	25.000	ug/L	91.2		70 - 130		
1,4-Dichlorobenzene	BXD2412-BS1	LCS	28.120	25.000	ug/L	112		70 - 130		
1,1-Dichloroethane	BXD2412-BS1	LCS	23.010	25.000	ug/L	92.0		70 - 130		
1,1-Dichloroethene	BXD2412-BS1	LCS	24.940	25.000	ug/L	99.8		70 - 130		
Toluene	BXD2412-BS1	LCS	24.600	25.000	ug/L	98.4		70 - 130		
Trichloroethene	BXD2412-BS1	LCS	27.100	25.000	ug/L	108		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXD2412-BS1	LCS	11.240	10.000	ug/L	112		75 - 125		
Toluene-d8 (Surrogate)	BXD2412-BS1	LCS	10.280	10.000	ug/L	103		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXD2412-BS1	LCS	12.130	10.000	ug/L	121		80 - 120		S09

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BXD2294		Used client sample: Y - Description: MW-20-4, 04/25/2014 07:30								
Benzene	MS	1409260-04	ND	23.600	25.000	ug/L		94.4		70 - 130
	MSD	1409260-04	ND	23.430	25.000	ug/L	0.7	93.7	20	70 - 130
Bromodichloromethane	MS	1409260-04	ND	31.580	25.000	ug/L		126		70 - 130
	MSD	1409260-04	ND	31.630	25.000	ug/L	0.2	127	20	70 - 130
Chlorobenzene	MS	1409260-04	ND	26.250	25.000	ug/L		105		70 - 130
	MSD	1409260-04	ND	26.090	25.000	ug/L	0.6	104	20	70 - 130
Chloroethane	MS	1409260-04	ND	25.490	25.000	ug/L		102		70 - 130
	MSD	1409260-04	ND	25.290	25.000	ug/L	0.8	101	20	70 - 130
1,4-Dichlorobenzene	MS	1409260-04	ND	29.400	25.000	ug/L		118		70 - 130
	MSD	1409260-04	ND	29.160	25.000	ug/L	0.8	117	20	70 - 130
1,1-Dichloroethane	MS	1409260-04	ND	26.030	25.000	ug/L		104		70 - 130
	MSD	1409260-04	ND	25.010	25.000	ug/L	4.0	100	20	70 - 130
1,1-Dichloroethene	MS	1409260-04	ND	26.830	25.000	ug/L		107		70 - 130
	MSD	1409260-04	ND	26.380	25.000	ug/L	1.7	106	20	70 - 130
Toluene	MS	1409260-04	ND	26.280	25.000	ug/L		105		70 - 130
	MSD	1409260-04	ND	26.480	25.000	ug/L	0.8	106	20	70 - 130
Trichloroethene	MS	1409260-04	ND	27.330	25.000	ug/L		109		70 - 130
	MSD	1409260-04	ND	26.790	25.000	ug/L	2.0	107	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1409260-04	ND	10.890	10.000	ug/L		109		75 - 125
	MSD	1409260-04	ND	10.570	10.000	ug/L	3.0	106		75 - 125
Toluene-d8 (Surrogate)	MS	1409260-04	ND	10.190	10.000	ug/L		102		80 - 120
	MSD	1409260-04	ND	10.230	10.000	ug/L	0.4	102		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1409260-04	ND	11.090	10.000	ug/L		111		80 - 120
	MSD	1409260-04	ND	11.400	10.000	ug/L	2.8	114		80 - 120

QC Batch ID: BXD2412		Used client sample: Y - Description: MW-17-1, 04/28/2014 11:10								
Benzene	MS	1409332-07	ND	23.420	25.000	ug/L		93.7		70 - 130
	MSD	1409332-07	ND	22.610	25.000	ug/L	3.5	90.4	20	70 - 130
Bromodichloromethane	MS	1409332-07	ND	32.140	25.000	ug/L		129		70 - 130
	MSD	1409332-07	ND	31.100	25.000	ug/L	3.3	124	20	70 - 130
Chlorobenzene	MS	1409332-07	ND	25.990	25.000	ug/L		104		70 - 130
	MSD	1409332-07	ND	26.140	25.000	ug/L	0.6	105	20	70 - 130
Chloroethane	MS	1409332-07	ND	24.630	25.000	ug/L		98.5		70 - 130
	MSD	1409332-07	ND	23.070	25.000	ug/L	6.5	92.3	20	70 - 130
1,4-Dichlorobenzene	MS	1409332-07	ND	30.450	25.000	ug/L		122		70 - 130
	MSD	1409332-07	ND	29.530	25.000	ug/L	3.1	118	20	70 - 130
1,1-Dichloroethane	MS	1409332-07	ND	25.390	25.000	ug/L		102		70 - 130
	MSD	1409332-07	ND	24.690	25.000	ug/L	2.8	98.8	20	70 - 130

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXD2412		Used client sample: Y - Description: MW-17-1, 04/28/2014 11:10								
1,1-Dichloroethene	MS	1409332-07	ND	26.350	25.000	ug/L		105		70 - 130
	MSD	1409332-07	ND	25.890	25.000	ug/L	1.8	104	20	70 - 130
Toluene	MS	1409332-07	ND	26.140	25.000	ug/L		105		70 - 130
	MSD	1409332-07	ND	25.790	25.000	ug/L	1.3	103	20	70 - 130
Trichloroethene	MS	1409332-07	ND	26.970	25.000	ug/L		108		70 - 130
	MSD	1409332-07	ND	26.530	25.000	ug/L	1.6	106	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1409332-07	ND	11.030	10.000	ug/L		110		75 - 125
	MSD	1409332-07	ND	10.810	10.000	ug/L	2.0	108		75 - 125
Toluene-d8 (Surrogate)	MS	1409332-07	ND	10.130	10.000	ug/L		101		80 - 120
	MSD	1409332-07	ND	10.270	10.000	ug/L	1.4	103		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1409332-07	ND	11.540	10.000	ug/L		115		80 - 120
	MSD	1409332-07	ND	11.200	10.000	ug/L	3.0	112		80 - 120

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Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
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QC Batch ID: BXD2294

Chloroacetonitrile	BXD2294-BLK1	0	ug/L			
1-Chlorobutane	BXD2294-BLK1	0	ug/L			
1,1-Dichloropropanone	BXD2294-BLK1	0	ug/L			
Methyl acrylate	BXD2294-BLK1	0	ug/L			
Nitrobenzene	BXD2294-BLK1	0	ug/L			
2-Nitropropane	BXD2294-BLK1	0	ug/L			

QC Batch ID: BXD2412

Chloroacetonitrile	BXD2412-BLK1	0	ug/L			
1-Chlorobutane	BXD2412-BLK1	0	ug/L			
1,1-Dichloropropanone	BXD2412-BLK1	0	ug/L			
Methyl acrylate	BXD2412-BLK1	0	ug/L			
Nitrobenzene	BXD2412-BLK1	0	ug/L			
2-Nitropropane	BXD2412-BLK1	0	ug/L			

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Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0478						
Acenaphthene	BXE0478-BLK1	ND	ug/L	0.10	0.034	
Acenaphthylene	BXE0478-BLK1	ND	ug/L	0.10	0.034	
Anthracene	BXE0478-BLK1	ND	ug/L	0.10	0.034	
Benzo[a]anthracene	BXE0478-BLK1	ND	ug/L	0.10	0.034	
Benzo[b]fluoranthene	BXE0478-BLK1	ND	ug/L	0.10	0.034	
Benzo[k]fluoranthene	BXE0478-BLK1	ND	ug/L	0.10	0.034	
Benzo[a]pyrene	BXE0478-BLK1	ND	ug/L	0.10	0.034	
Benzo[g,h,i]perylene	BXE0478-BLK1	ND	ug/L	0.10	0.034	
Chrysene	BXE0478-BLK1	ND	ug/L	0.10	0.034	
Dibenzo[a,h]anthracene	BXE0478-BLK1	ND	ug/L	0.10	0.034	
Fluoranthene	BXE0478-BLK1	ND	ug/L	0.10	0.034	
Fluorene	BXE0478-BLK1	ND	ug/L	0.10	0.034	
Indeno[1,2,3-cd]pyrene	BXE0478-BLK1	ND	ug/L	0.10	0.034	
Naphthalene	BXE0478-BLK1	ND	ug/L	0.10	0.034	
Phenanthrene	BXE0478-BLK1	ND	ug/L	0.10	0.034	
Pyrene	BXE0478-BLK1	ND	ug/L	0.10	0.034	
Nitrobenzene-d5 (Surrogate)	BXE0478-BLK1	103	%	42 - 130 (LCL - UCL)		
2-Fluorobiphenyl (Surrogate)	BXE0478-BLK1	90.1	%	50 - 116 (LCL - UCL)		
p-Terphenyl-d14 (Surrogate)	BXE0478-BLK1	115	%	43 - 134 (LCL - UCL)		

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Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXE0478										
Acenaphthene	BXE0478-BS1	LCS	1.0290	1.0000	ug/L	103		60 - 110		
Acenaphthylene	BXE0478-BS1	LCS	1.0584	1.0000	ug/L	106		56 - 120		
Anthracene	BXE0478-BS1	LCS	1.0682	1.0000	ug/L	107		57 - 128		
Benzo[a]anthracene	BXE0478-BS1	LCS	1.0486	1.0000	ug/L	105		64 - 130		
Benzo[b]fluoranthene	BXE0478-BS1	LCS	0.98980	1.0000	ug/L	99.0		50 - 130		
Benzo[k]fluoranthene	BXE0478-BS1	LCS	1.0290	1.0000	ug/L	103		60 - 120		
Benzo[a]pyrene	BXE0478-BS1	LCS	1.0584	1.0000	ug/L	106		60 - 125		
Benzo[g,h,i]perylene	BXE0478-BS1	LCS	0.92120	1.0000	ug/L	92.1		44 - 120		
Chrysene	BXE0478-BS1	LCS	1.0192	1.0000	ug/L	102		60 - 110		
Dibenzo[a,h]anthracene	BXE0478-BS1	LCS	0.99960	1.0000	ug/L	100		40 - 120		
Fluoranthene	BXE0478-BS1	LCS	1.0780	1.0000	ug/L	108		60 - 120		
Fluorene	BXE0478-BS1	LCS	1.0192	1.0000	ug/L	102		60 - 120		
Indeno[1,2,3-cd]pyrene	BXE0478-BS1	LCS	0.97020	1.0000	ug/L	97.0		40 - 130		
Naphthalene	BXE0478-BS1	LCS	1.0094	1.0000	ug/L	101		60 - 110		
Phenanthrene	BXE0478-BS1	LCS	0.99960	1.0000	ug/L	100		60 - 120		
Pyrene	BXE0478-BS1	LCS	1.0878	1.0000	ug/L	109		50 - 125		
Nitrobenzene-d5 (Surrogate)	BXE0478-BS1	LCS	4.2532	4.0000	ug/L	106		42 - 130		
2-Fluorobiphenyl (Surrogate)	BXE0478-BS1	LCS	4.0964	4.0000	ug/L	102		50 - 116		
p-Terphenyl-d14 (Surrogate)	BXE0478-BS1	LCS	4.4394	4.0000	ug/L	111		43 - 134		

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Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes a QC Batch ID: BXE0478 and a 'Used client sample: N' header.

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Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: BXE0478		Used client sample: N									
p-Terphenyl-d14 (Surrogate)	MS	1407468-61	ND	4.5700	4.0000	ug/L		114		43 - 134	
	MSD	1407468-61	ND	4.2292	4.0000	ug/L	7.7	106		43 - 134	

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Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2405						
Chloride	BXD2405-BLK1	ND	mg/L	0.50	0.067	
Nitrate as N	BXD2405-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXD2405-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXD2513						
Bicarbonate	BXD2513-BLK1	ND	mg/L	5.0	5.0	
Carbonate	BXD2513-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	BXD2513-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXD2514						
Bicarbonate	BXD2514-BLK1	ND	mg/L	5.0	5.0	
Carbonate	BXD2514-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	BXD2514-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXE0104						
Nitrite as N	BXE0104-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXE0109						
Total Recoverable Calcium	BXE0109-BLK1	0.019544	mg/L	0.10	0.014	J
Total Recoverable Magnesium	BXE0109-BLK2	0.031857	mg/L	0.050	0.019	J
Total Recoverable Sodium	BXE0109-BLK1	0.057090	mg/L	0.50	0.017	J
Total Recoverable Potassium	BXE0109-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXE0142						
Total Dissolved Solids @ 180 C	BXE0142-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXE0933						
Perchlorate	BXE0933-BLK1	ND	ug/L	4.0	0.45	

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Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXD2405										
Chloride	BXD2405-BS1	LCS	51.130	50.000	mg/L	102		90 - 110		
Nitrate as N	BXD2405-BS1	LCS	5.0660	5.0000	mg/L	101		90 - 110		
Sulfate	BXD2405-BS1	LCS	102.58	100.00	mg/L	103		90 - 110		
QC Batch ID: BXD2513										
Total Alkalinity as CaCO3	BXD2513-BS3	LCS	98.430	100.00	mg/L	98.4		90 - 110		
pH	BXD2513-BS2	LCS	7.0400	7.0000	pH Units	101		95 - 105		
QC Batch ID: BXD2514										
Total Alkalinity as CaCO3	BXD2514-BS3	LCS	97.820	100.00	mg/L	97.8		90 - 110		
pH	BXD2514-BS2	LCS	7.0300	7.0000	pH Units	100		95 - 105		
QC Batch ID: BXE0104										
Nitrite as N	BXE0104-BS1	LCS	0.50449	0.50000	mg/L	101		90 - 110		
QC Batch ID: BXE0109										
Total Recoverable Calcium	BXE0109-BS1	LCS	10.338	10.000	mg/L	103		85 - 115		
Total Recoverable Magnesium	BXE0109-BS2	LCS	11.412	10.000	mg/L	114		85 - 115		
Total Recoverable Sodium	BXE0109-BS1	LCS	10.396	10.000	mg/L	104		85 - 115		
Total Recoverable Potassium	BXE0109-BS1	LCS	10.276	10.000	mg/L	103		85 - 115		
QC Batch ID: BXE0142										
Total Dissolved Solids @ 180 C	BXE0142-BS1	LCS	535.00	586.00	mg/L	91.3		90 - 110		
QC Batch ID: BXE0933										
Perchlorate	BXE0933-BS1	LCS	10.687	10.000	ug/L	107		85 - 115		

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Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)
Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Qualls. Includes sections for QC Batch IDs BXD2405, BXD2513, BXD2514, BXE0104, and BXE0109.

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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: BXE0142		Used client sample: Y - Description: MW-26-1, 04/28/2014 14:10									
Total Dissolved Solids @ 180 C	DUP	1409332-11	576.66	579.99		mg/L	0.6		10		
QC Batch ID: BXE0933		Used client sample: Y - Description: MW-17-1, 04/28/2014 11:10									
Perchlorate	DUP	1409332-07	ND	ND		ug/L			15		
	MS	1409332-07	ND	8.9886	10.101	ug/L		89.0		80 - 120	
	MSD	1409332-07	ND	9.5976	10.101	ug/L	6.6	95.0	15	80 - 120	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0109						
Total Recoverable Iron	BXE0109-BLK1	28.636	ug/L	50	6.5	J
QC Batch ID: BXE0225						
Total Recoverable Arsenic	BXE0225-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	BXE0225-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	BXE0225-BLK1	ND	ug/L	1.0	0.10	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXE0109										
Total Recoverable Iron	BXE0109-BS1	LCS	1092.5	1000.0	ug/L	109		85 - 115		
QC Batch ID: BXE0225										
Total Recoverable Arsenic	BXE0225-BS1	LCS	105.25	100.00	ug/L	105		85 - 115		
Total Recoverable Chromium	BXE0225-BS1	LCS	43.130	40.000	ug/L	108		85 - 115		
Total Recoverable Lead	BXE0225-BS1	LCS	107.20	100.00	ug/L	107		85 - 115		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXE0109		Used client sample: Y - Description: MW-17-1, 04/28/2014 11:10								
Total Recoverable Iron	DUP	1409332-07	86.957	97.864		ug/L	11.8		20	
	MS	1409332-07	86.957	1147.8	1000.0	ug/L		106		75 - 125
	MSD	1409332-07	86.957	1173.8	1000.0	ug/L	2.2	109	20	75 - 125
QC Batch ID: BXE0225		Used client sample: Y - Description: MW-17-1, 04/28/2014 11:10								
Total Recoverable Arsenic	DUP	1409332-07	ND	ND		ug/L			20	
	MS	1409332-07	ND	106.38	100.00	ug/L		106		70 - 130
	MSD	1409332-07	ND	101.42	100.00	ug/L	4.8	101	20	70 - 130
Total Recoverable Chromium	DUP	1409332-07	ND	ND		ug/L			20	
	MS	1409332-07	ND	40.608	40.000	ug/L		102		70 - 130
	MSD	1409332-07	ND	38.770	40.000	ug/L	4.6	96.9	20	70 - 130
Total Recoverable Lead	DUP	1409332-07	ND	ND		ug/L			20	
	MS	1409332-07	ND	99.945	100.00	ug/L		99.9		70 - 130
	MSD	1409332-07	ND	96.680	100.00	ug/L	3.3	96.7	20	70 - 130

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- B04 The batch size for the Continuing Calibration Blank (CCB) exceeds the control limit.
- S05 The sample holding time was exceeded.
- S09 The surrogate recovery on the sample for this compound was not within the control limits.
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.
- V12 More than the acceptable number of samples were analyzed between Continuing Calibration Verification (CCV) standards.



Date of Report: 05/19/2014

David Conner

Tidewater Inc.

3761 Attucks Drive

Powell, OH 43065

Client Project: 2nd Qtr.

BCL Project: JPL- GW Monitoring Wells

BCL Work Order: 1409433

Invoice ID: B173484

Enclosed are the results of analyses for samples received by the laboratory on 4/29/2014. 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; AK UST101

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Chain of Custody Form

Report To: Tidewater, Inc. Client: * Tidewater, Inc. (P.O. #1213-000-02)
 Attn: * David Corner Attn: * As directed by Ben Headington
 Street Address: * 3761 Attucks Drive Address: * 6625 Selnick Drive, Suite A
 City: * Powell State: * OH Zip: * 43065
 Phone: * 614 792 - 2897 Fax: * 614 792 - 2897
 Email Address: david.corner@tideh2o.net
 Submission #: 1409433

Project Description: * JPL-GW Monitoring
 Project Code: * 2nd Qtr.
 Sampler (s): * Blaine Tech

Analysis Requested:
 Hexavalent Cr 7-196 (mg/L)
 Cl, NO3, NO2, SO4, Perch., Orthophosphate 365.1
 CO3, HCO3, Alk., TDS, pH
 8270 Phenols
 8270 PAHs

Matrix Types: S = Soil SI = 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

Sample #	Sample Description	Date	Time	Matrix*
1	TB-7-4/29/14	4-29-14	0700	AQ
2	FB-7-4/29/14	4-29-14	0715	
3	MW-12-5	4-29-14	0800	
4	MW-12-4	4-29-14	0840	
5	MW-12-3	4-29-14	0915	
6	MW-12-2	4-29-14	1015	
7	MW-12-1	4-29-14	1030	
8	DOP-4-ZOR14	4-29-14	1215	
9	MW-21-5	4-29-14	1300	
10	MW-21-4	4-29-14	1300	
11	MW-21-3	4-29-14	1335	

Notes: CHK BY: WISE DISTRIBUTION
 SUB OUT:
 SHORT HOLDING TIME: (NO2) (NO3) OF S
 DO-G2 BOD MBAS COI
 Level IV

Global ID:
 1. Relinquished By: [Signature] Date: 4-29-14 Time: 1630
 2. Relinquished By: [Signature] Date: 4/29/14 Time: 1615
 3. Relinquished By: [Signature] Date: 4-29-14 Time: 1930

Cost Center:
 1. Relinquished By: [Signature] Date: 4-29-14 Time: 1630
 2. Relinquished By: [Signature] Date: 4/29/14 Time: 1615
 3. Relinquished By: [Signature] Date: 4-29-14 Time: 1930

Comments:
 PLEASE NOTATE WHICH SAMPLES TO USE FOR OC (MS/MSD)
 90% Level III and 10% Level IV data validation required; Level IV Notated on C of C
 NOTE: ALL ANALYSIS REQUIRED TO HAVE CALIBRATION SUMMARIES (Inform 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. 15 07/01/13 Page 1 of 4

Submission #: 14-09433

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

Refrigerant: Ice Blue Ice None Other Comments: _____

Custody Seals Ice Chest Containers None Comments: _____

Intact? Yes No Intact? Yes No

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

COC Received
 YES NO

Emissivity: 0.95 Container: PE Thermometer ID: 207 Date/Time: 4-29-14 19:30
 Temperature: (A) 2.1 °C (C) 2.1 °C Analyst Init: [Signature]

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

Comments: _____
 Sample Numbering Completed By: [Signature] Date/Time: 4/29/14 2:24
 A = Actual / C = Corrected



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 15 07/01/13 Page 2 of 4

Submission #: 1409433

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

GOC Received YES NO
 Emissivity: 0.95 Container: PE Thermometer ID: 207 Date/Time: 4-29-14 1930
 Temperature: (A) 2.1 °C / (C) 2.1 °C Analyst Init: JJ

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

Comments: _____
 Sample Numbering Completed By: JJ Date/Time: 4/29/14 8:18



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 15 07/01/13 Page 3 Of 4

Submission #: 1409433

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: 0.97, Container: VOAS, Thermometer ID: 207, Date/Time: 4/29/13, Analyst Init: M. Temperature: (A) 1.1 C, (C) 0.9 C.

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 'B', 'C', and 'A(1)'.

Comments: Sample Numbering Completed By: BP Date/Time: 4/29/13 2:24. A = Actual / C = Corrected

[S:\MyDOCS\WordPerfect\LAB_DOCS\FORMS\SAMREC15]



BC LABORATORIES INC. COOLER RECEIPT FORM Rev. No. 15 07/01/13 Page 4 Of 4

Submission #: 14-09433

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: VOAS Thermometer ID: 207 Date/Time: 4-29-14 1930
 Temperature: (A) 1.1 °C / (C) 0.9 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL			B							
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS			C							
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE /NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A3	A3	A3							
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____ Date/Time: 4/29/14 1930



Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1409433-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-7-4/29/14 Sampled By: Blaine Tech of BAT	Receive Date: 04/29/2014 19:30 Sampling Date: 04/29/2014 07:00 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-7-4/29/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1409433-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: EB-7-4/29/14 Sampled By: Blaine Tech of BAT	Receive Date: 04/29/2014 19:30 Sampling Date: 04/29/2014 07:15 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-7-4/29/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1409433-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-12-5 Sampled By: Blaine Tech of BAT	Receive Date: 04/29/2014 19:30 Sampling Date: 04/29/2014 08:00 Sample Depth: --- Lab Matrix: Water Sample Type: 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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1409433-04	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-12-4 Sampled By: Blaine Tech of BAT	Receive Date: 04/29/2014 19:30 Sampling Date: 04/29/2014 08:40 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-12-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1409433-05	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-12-3 Sampled By: Blaine Tech of BAT	Receive Date: 04/29/2014 19:30 Sampling Date: 04/29/2014 09:15 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-12-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1409433-06	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-12-2 Sampled By: Blaine Tech of BAT	Receive Date: 04/29/2014 19:30 Sampling Date: 04/29/2014 09:45 Sample Depth: --- Lab Matrix: Water Sample Type: 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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1409433-07	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-12-1 Sampled By: Blaine Tech of BAT	Receive Date: 04/29/2014 19:30 Sampling Date: 04/29/2014 10:15 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-12-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1409433-08	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: DUP-4-2Q14 Sampled By: Blaine Tech of BAT	Receive Date: 04/29/2014 19:30 Sampling Date: 04/29/2014 10:30 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): DUP-4-2Q14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1409433-09	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-21-5 Sampled By: Blaine Tech of BAT	Receive Date: 04/29/2014 19:30 Sampling Date: 04/29/2014 12:15 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous 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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1409433-10	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-21-4 Sampled By: Blaine Tech of BAT	Receive Date: 04/29/2014 19:30 Sampling Date: 04/29/2014 13:00 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous 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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1409433-11	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-21-3 Sampled By: Blaine Tech of BAT	Receive Date: 04/29/2014 19:30 Sampling Date: 04/29/2014 13:35 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous 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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1409433-12	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-21-2 Sampled By: Blaine Tech of BAT	Receive Date: 04/29/2014 19:30 Sampling Date: 04/29/2014 14:05 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous 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: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1409433-13	COC Number: ---	Receive Date: 04/29/2014 19:30
	Project Number: JPL-GW	Sampling Date: 04/29/2014 14:40
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-21-1	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Aqueous
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-21-1
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409433-01	Client Sample Name: JPL-GW, TB-7-4/29/14, 4/29/2014 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: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409433-01	Client Sample Name: JPL-GW, TB-7-4/29/14, 4/29/2014 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	V11	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: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409433-01	Client Sample Name: JPL-GW, TB-7-4/29/14, 4/29/2014 7:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND	V11	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	V11	1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND	V11	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	V11	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)	99.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	86.4	%	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	04/30/14	04/30/14 16:11	MGC	MS-V5	1	BXD2532

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409433-01	Client Sample Name: JPL-GW, TB-7-4/29/14, 4/29/2014 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			1
1-Chlorobutane	0	ug/L			EPA-524.2			1
1,1-Dichloropropanone	0	ug/L			EPA-524.2			1
Methyl acrylate	0	ug/L			EPA-524.2			1
Nitrobenzene	0	ug/L			EPA-524.2			1
2-Nitropropane	0	ug/L			EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/30/14	04/30/14 16:11	MGC	MS-V5	1	BXD2532

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Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409433-02	Client Sample Name: JPL-GW, EB-7-4/29/14, 4/29/2014 7:15:00AM, 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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Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409433-02	Client Sample Name: JPL-GW, EB-7-4/29/14, 4/29/2014 7:15:00AM, 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	V11	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: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409433-02	Client Sample Name: JPL-GW, EB-7-4/29/14, 4/29/2014 7:15:00AM, 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	V11	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	V11	1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND	V11	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	V11	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)	98.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	83.2	%	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	04/30/14	04/30/14 16:33	MGC	MS-V5	1	BXD2532

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409433-02	Client Sample Name: JPL-GW, EB-7-4/29/14, 4/29/2014 7:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2			1
1-Chlorobutane	0	ug/L			EPA-524.2			1
1,1-Dichloropropanone	0	ug/L			EPA-524.2			1
Methyl acrylate	0	ug/L			EPA-524.2			1
Nitrobenzene	0	ug/L			EPA-524.2			1
2-Nitropropane	0	ug/L			EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/30/14	04/30/14 16:33	MGC	MS-V5	1	BXD2532

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409433-02	Client Sample Name: JPL-GW, EB-7-4/29/14, 4/29/2014 7:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	ND	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	ND	mg/L	0.050	0.020	EPA-200.7	ND		1
Total Recoverable Sodium	0.044	mg/L	0.50	0.017	EPA-200.7	0.098	J	1
Total Recoverable Potassium	ND	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	ND	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	0.22	mg/L	0.50	0.067	EPA-300.0	0.25	J	3
Nitrate as N	0.028	mg/L	0.10	0.025	EPA-300.0	ND	J	3
Sulfate	0.34	mg/L	1.0	0.18	EPA-300.0	0.31	J	3
pH	5.90	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	ND	mg/L	6.7	6.7	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-200.7	05/02/14	05/06/14 20:06	JRG	PE-OP2	1	BXE0227
2	SM-2320B	04/30/14	04/30/14 18:37	RML	MET-1	1	BXD2576
3	EPA-300.0	04/30/14	04/30/14 19:47	OLH	IC5	1	BXE0019
4	EPA-150.1	04/30/14	04/30/14 18:37	RML	MET-1	1	BXD2576
5	EPA-160.1	05/02/14	05/02/14 13:40	FRP	MANUAL	0.667	BXE0196
6	EPA-353.2	04/30/14	04/30/14 07:53	TDC	KONE-1	1	BXE0116
7	EPA-314.0	05/09/14	05/10/14 03:54	LD1	IC6	1	BXE0936

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409433-02	Client Sample Name: JPL-GW, EB-7-4/29/14, 4/29/2014 7:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		1
Total Recoverable Iron	ND	ug/L	50	6.5	EPA-200.7	ND		2
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	05/05/14	05/06/14 04:29	EAR	PE-EL2	1	BXE0327
2	EPA-200.7	05/02/14	05/06/14 20:06	JRG	PE-OP2	1	BXE0227

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Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409433-03	Client Sample Name: JPL-GW, MW-12-5, 4/29/2014 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
Carbon tetrachloride	0.25	ug/L	0.50	0.18	EPA-524.2	ND	J	1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.25	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409433-03	Client Sample Name: JPL-GW, MW-12-5, 4/29/2014 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
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.090	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND	V11	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: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409433-03	Client Sample Name: JPL-GW, MW-12-5, 4/29/2014 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	V11	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	V11	1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND	V11	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	V11	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)	84.0	%	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	04/30/14	04/30/14 16:56	MGC	MS-V5	1	BXD2532

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409433-03	Client Sample Name: JPL-GW, MW-12-5, 4/29/2014 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			1
1-Chlorobutane	0	ug/L			EPA-524.2			1
1,1-Dichloropropanone	0	ug/L			EPA-524.2			1
Methyl acrylate	0	ug/L			EPA-524.2			1
Nitrobenzene	0	ug/L			EPA-524.2			1
2-Nitropropane	0	ug/L			EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/30/14	04/30/14 16:56	MGC	MS-V5	1	BXD2532

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409433-03		Client Sample Name: JPL-GW, MW-12-5, 4/29/2014 8:00:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	44	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	12	mg/L	0.050	0.020	EPA-200.7	ND		1
Total Recoverable Sodium	40	mg/L	0.50	0.017	EPA-200.7	0.098		1
Total Recoverable Potassium	2.1	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	210	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	170	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	18	mg/L	0.50	0.067	EPA-300.0	0.25		3
Nitrate as N	2.1	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	20	mg/L	1.0	0.18	EPA-300.0	0.31		3
pH	8.01	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	280	mg/L	20	20	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-200.7	05/02/14	05/06/14 20:21	JRG	PE-OP2	1	BXE0227
2	SM-2320B	04/30/14	04/30/14 18:48	RML	MET-1	1	BXD2576
3	EPA-300.0	04/30/14	04/30/14 20:00	OLH	IC5	1	BXE0019
4	EPA-150.1	04/30/14	04/30/14 18:48	RML	MET-1	1	BXD2576
5	EPA-160.1	05/02/14	05/02/14 13:40	FRP	MANUAL	2	BXE0196
6	EPA-353.2	04/30/14	04/30/14 07:54	TDC	KONE-1	1	BXE0116
7	EPA-314.0	05/09/14	05/10/14 04:08	LD1	IC6	1	BXE0936

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409433-03	Client Sample Name: JPL-GW, MW-12-5, 4/29/2014 8:00:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Arsenic	1.9	ug/L	2.0	0.70	EPA-200.8	ND	J	1
Total Recoverable Chromium	1.8	ug/L	3.0	0.50	EPA-200.8	ND	J	1
Total Recoverable Iron	95	ug/L	50	6.5	EPA-200.7	ND		2
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	05/05/14	05/06/14 02:55	EAR	PE-EL2	1	BXE0327
2	EPA-200.7	05/02/14	05/06/14 20:21	JRG	PE-OP2	1	BXE0227

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Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409433-04	Client Sample Name: JPL-GW, MW-12-4, 4/29/2014 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	0.45	ug/L	0.50	0.18	EPA-524.2	ND	J	1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.57	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: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409433-04	Client Sample Name: JPL-GW, MW-12-4, 4/29/2014 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
Trichloroethene	0.17	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND	V11	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: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409433-04	Client Sample Name: JPL-GW, MW-12-4, 4/29/2014 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	V11	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	V11	1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND	V11	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	V11	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)	98.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	84.2	%	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	04/30/14	04/30/14 17:19	MGC	MS-V5	1	BXD2532

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Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409433-04	Client Sample Name: JPL-GW, MW-12-4, 4/29/2014 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			1
1-Chlorobutane	0	ug/L			EPA-524.2			1
1,1-Dichloropropanone	0	ug/L			EPA-524.2			1
Methyl acrylate	0	ug/L			EPA-524.2			1
Nitrobenzene	0	ug/L			EPA-524.2			1
2-Nitropropane	0	ug/L			EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/30/14	04/30/14 17:19	MGC	MS-V5	1	BXD2532

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Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409433-04		Client Sample Name: JPL-GW, MW-12-4, 4/29/2014 8:40:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	60	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	15	mg/L	0.050	0.020	EPA-200.7	ND		1
Total Recoverable Sodium	24	mg/L	0.50	0.017	EPA-200.7	0.098		1
Total Recoverable Potassium	2.3	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	240	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	190	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	15	mg/L	0.50	0.067	EPA-300.0	0.25		3
Nitrate as N	1.4	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	33	mg/L	1.0	0.18	EPA-300.0	0.31		3
pH	8.03	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	300	mg/L	20	20	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Instrument	Dilution	QC	
			Date/Time	Analyst			Batch ID	
1	EPA-200.7	05/02/14	05/06/14 20:31	JRG	PE-OP2	1	BXE0227	
2	SM-2320B	04/30/14	04/30/14 18:54	RML	MET-1	1	BXD2576	
3	EPA-300.0	04/30/14	04/30/14 20:54	OLH	IC5	1	BXE0019	
4	EPA-150.1	04/30/14	04/30/14 18:54	RML	MET-1	1	BXD2576	
5	EPA-160.1	05/02/14	05/02/14 12:30	FRP	MANUAL	2	BXE0197	
6	EPA-353.2	04/30/14	04/30/14 07:54	TDC	KONE-1	1	BXE0116	
7	EPA-314.0	05/09/14	05/10/14 04:22	LD1	IC6	1	BXE0936	

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Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409433-04	Client Sample Name: JPL-GW, MW-12-4, 4/29/2014 8:40:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Arsenic	2.3	ug/L	2.0	0.70	EPA-200.8	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		1
Total Recoverable Iron	29	ug/L	50	6.5	EPA-200.7	ND	J	2
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	05/05/14	05/06/14 04:32	EAR	PE-EL2	1	BXE0327
2	EPA-200.7	05/02/14	05/06/14 20:31	JRG	PE-OP2	1	BXE0227

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Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409433-05	Client Sample Name: JPL-GW, MW-12-3, 4/29/2014 9:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	0.57	ug/L	0.50	0.18	EPA-524.2	ND		1
Chlorobenzene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
Chloroethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Chloroform	0.52	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	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: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409433-05	Client Sample Name: JPL-GW, MW-12-3, 4/29/2014 9:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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	V11	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: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409433-05	Client Sample Name: JPL-GW, MW-12-3, 4/29/2014 9:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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	V11	1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND	V11	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	V11	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)	98.8	%	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	04/30/14	04/30/14 17:41	MGC	MS-V5	1	BXD2532

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409433-05	Client Sample Name: JPL-GW, MW-12-3, 4/29/2014 9:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2			1
1-Chlorobutane	0	ug/L			EPA-524.2			1
1,1-Dichloropropanone	0	ug/L			EPA-524.2			1
Methyl acrylate	0	ug/L			EPA-524.2			1
Nitrobenzene	0	ug/L			EPA-524.2			1
2-Nitropropane	0	ug/L			EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/30/14	04/30/14 17:41	MGC	MS-V5	1	BXD2532

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Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409433-05		Client Sample Name: JPL-GW, MW-12-3, 4/29/2014 9:15:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	51	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	16	mg/L	0.050	0.020	EPA-200.7	ND		1
Total Recoverable Sodium	27	mg/L	0.50	0.017	EPA-200.7	0.098		1
Total Recoverable Potassium	2.9	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	210	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	170	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	15	mg/L	0.50	0.067	EPA-300.0	0.25		3
Nitrate as N	0.45	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	29	mg/L	1.0	0.18	EPA-300.0	0.31		3
pH	8.11	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	270	mg/L	20	20	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	3.0	ug/L	4.0	0.45	EPA-314.0	ND	J	7

Run #	Method	Prep Date	Run		Instrument	Dilution	QC	
			Date/Time	Analyst			Batch ID	
1	EPA-200.7	05/02/14	05/06/14 20:33	JRG	PE-OP2	1	BXE0227	
2	SM-2320B	04/30/14	04/30/14 19:00	RML	MET-1	1	BXD2576	
3	EPA-300.0	04/30/14	04/30/14 21:07	OLH	IC5	1	BXE0019	
4	EPA-150.1	04/30/14	04/30/14 19:00	RML	MET-1	1	BXD2576	
5	EPA-160.1	05/02/14	05/02/14 12:30	FRP	MANUAL	2	BXE0197	
6	EPA-353.2	04/30/14	04/30/14 07:54	TDC	KONE-1	1	BXE0116	
7	EPA-314.0	05/09/14	05/12/14 10:28	LD1	IC6	1	BXE0936	

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409433-05	Client Sample Name: JPL-GW, MW-12-3, 4/29/2014 9:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Arsenic	0.82	ug/L	2.0	0.70	EPA-200.8	ND	J	1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		1
Total Recoverable Iron	24	ug/L	50	6.5	EPA-200.7	ND	J	2
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	05/05/14	05/06/14 04:35	EAR	PE-EL2	1	BXE0327
2	EPA-200.7	05/02/14	05/06/14 20:33	JRG	PE-OP2	1	BXE0227

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Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409433-06	Client Sample Name: JPL-GW, MW-12-2, 4/29/2014 9:45:00AM, 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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409433-06	Client Sample Name: JPL-GW, MW-12-2, 4/29/2014 9:45:00AM, 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	V11	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: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409433-06	Client Sample Name: JPL-GW, MW-12-2, 4/29/2014 9:45:00AM, 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	V11	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	V11	1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND	V11	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	V11	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)	90.2	%	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	04/30/14	04/30/14 18:04	MGC	MS-V5	1	BXD2532

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409433-06	Client Sample Name: JPL-GW, MW-12-2, 4/29/2014 9:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2			1
1-Chlorobutane	0	ug/L			EPA-524.2			1
1,1-Dichloropropanone	0	ug/L			EPA-524.2			1
Methyl acrylate	0	ug/L			EPA-524.2			1
Nitrobenzene	0	ug/L			EPA-524.2			1
2-Nitropropane	0	ug/L			EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/30/14	04/30/14 18:04	MGC	MS-V5	1	BXD2532

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409433-06		Client Sample Name: JPL-GW, MW-12-2, 4/29/2014 9:45:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	64	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	21	mg/L	0.050	0.020	EPA-200.7	ND		1
Total Recoverable Sodium	26	mg/L	0.50	0.017	EPA-200.7	0.098		1
Total Recoverable Potassium	3.4	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	240	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	200	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	20	mg/L	0.50	0.067	EPA-300.0	0.25		3
Nitrate as N	1.5	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	49	mg/L	1.0	0.18	EPA-300.0	0.31		3
pH	7.63	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	340	mg/L	20	20	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	3.9	ug/L	4.0	0.45	EPA-314.0	ND	J	7

Run #	Method	Prep Date	Run		Instrument	Dilution	QC	
			Date/Time	Analyst			Batch ID	
1	EPA-200.7	05/02/14	05/06/14 20:36	JRG	PE-OP2	1	BXE0227	
2	SM-2320B	04/30/14	04/30/14 19:06	RML	MET-1	1	BXD2576	
3	EPA-300.0	04/30/14	04/30/14 21:20	OLH	IC5	1	BXE0019	
4	EPA-150.1	04/30/14	04/30/14 19:06	RML	MET-1	1	BXD2576	
5	EPA-160.1	05/02/14	05/02/14 12:30	FRP	MANUAL	2	BXE0197	
6	EPA-353.2	04/30/14	04/30/14 07:54	TDC	KONE-1	1	BXE0116	
7	EPA-314.0	05/09/14	05/10/14 04:50	LD1	IC6	1	BXE0936	

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3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409433-06	Client Sample Name: JPL-GW, MW-12-2, 4/29/2014 9:45:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		1
Total Recoverable Chromium	1.0	ug/L	3.0	0.50	EPA-200.8	ND	J	1
Total Recoverable Iron	280	ug/L	50	6.5	EPA-200.7	ND		2
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	05/05/14	05/06/14 04:38	EAR	PE-EL2	1	BXE0327
2	EPA-200.7	05/02/14	05/06/14 20:36	JRG	PE-OP2	1	BXE0227

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Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409433-07	Client Sample Name: JPL-GW, MW-12-1, 4/29/2014 10:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409433-07	Client Sample Name: JPL-GW, MW-12-1, 4/29/2014 10:15:00AM, 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	0.15	ug/L	0.50	0.13	EPA-524.2	ND	J	1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND	V11	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: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409433-07	Client Sample Name: JPL-GW, MW-12-1, 4/29/2014 10:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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	V11	1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND	V11	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	V11	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)	90.7	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/30/14	04/30/14 18:26	MGC	MS-V5	1	BXD2532

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Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409433-07	Client Sample Name: JPL-GW, MW-12-1, 4/29/2014 10:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2			1
1-Chlorobutane	0	ug/L			EPA-524.2			1
1,1-Dichloropropanone	0	ug/L			EPA-524.2			1
Methyl acrylate	0	ug/L			EPA-524.2			1
Nitrobenzene	0	ug/L			EPA-524.2			1
2-Nitropropane	0	ug/L			EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/30/14	04/30/14 18:26	MGC	MS-V5	1	BXD2532

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Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409433-07		Client Sample Name: JPL-GW, MW-12-1, 4/29/2014 10:15:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	55	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	19	mg/L	0.050	0.020	EPA-200.7	ND		1
Total Recoverable Sodium	25	mg/L	0.50	0.017	EPA-200.7	0.098		1
Total Recoverable Potassium	3.3	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	250	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	200	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	18	mg/L	0.50	0.067	EPA-300.0	0.25		3
Nitrate as N	0.14	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	24	mg/L	1.0	0.18	EPA-300.0	0.31		3
pH	7.85	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	300	mg/L	20	20	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-200.7	05/02/14	05/06/14 20:38	JRG	PE-OP2	1	BXE0227
2	SM-2320B	04/30/14	04/30/14 19:12	RML	MET-1	1	BXD2576
3	EPA-300.0	04/30/14	04/30/14 22:01	OLH	IC5	1	BXE0019
4	EPA-150.1	04/30/14	04/30/14 19:12	RML	MET-1	1	BXD2576
5	EPA-160.1	05/02/14	05/02/14 12:30	FRP	MANUAL	2	BXE0197
6	EPA-353.2	04/30/14	04/30/14 07:59	TDC	KONE-1	1	BXE0116
7	EPA-314.0	05/09/14	05/10/14 05:31	LD1	IC6	1	BXE0936

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Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409433-07	Client Sample Name: JPL-GW, MW-12-1, 4/29/2014 10:15:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		1
Total Recoverable Chromium	1.1	ug/L	3.0	0.50	EPA-200.8	ND	J	1
Total Recoverable Iron	880	ug/L	50	6.5	EPA-200.7	ND		2
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	05/05/14	05/06/14 04:42	EAR	PE-EL2	1	BXE0327
2	EPA-200.7	05/02/14	05/06/14 20:38	JRG	PE-OP2	1	BXE0227

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Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409433-08	Client Sample Name: JPL-GW, DUP-4-2Q14, 4/29/2014 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
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: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409433-08	Client Sample Name: JPL-GW, DUP-4-2Q14, 4/29/2014 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
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	0.15	ug/L	0.50	0.13	EPA-524.2	ND	J	1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND	V11	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: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409433-08	Client Sample Name: JPL-GW, DUP-4-2Q14, 4/29/2014 10:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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	V11	1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND	V11	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	V11	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)	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	04/30/14	04/30/14 18:49	MGC	MS-V5	1	BXD2412

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409433-08	Client Sample Name: JPL-GW, DUP-4-2Q14, 4/29/2014 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	04/30/14	04/30/14 18:49	MGC	MS-V5	1	BXD2412

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409433-08		Client Sample Name: JPL-GW, DUP-4-2Q14, 4/29/2014 10:30:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	55	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	19	mg/L	0.050	0.020	EPA-200.7	ND		1
Total Recoverable Sodium	26	mg/L	0.50	0.017	EPA-200.7	0.098		1
Total Recoverable Potassium	3.3	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	240	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	200	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	19	mg/L	0.50	0.067	EPA-300.0	0.25		3
Nitrate as N	0.14	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	25	mg/L	1.0	0.18	EPA-300.0	0.31		3
pH	7.85	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	280	mg/L	20	20	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-200.7	05/02/14	05/06/14 20:41	JRG	PE-OP2	1	BXE0227
2	SM-2320B	04/30/14	04/30/14 19:18	RML	MET-1	1	BXD2576
3	EPA-300.0	04/30/14	04/30/14 22:14	OLH	IC5	1	BXE0019
4	EPA-150.1	04/30/14	04/30/14 19:18	RML	MET-1	1	BXD2576
5	EPA-160.1	05/02/14	05/02/14 12:30	FRP	MANUAL	2	BXE0197
6	EPA-353.2	04/30/14	04/30/14 07:59	TDC	KONE-1	1	BXE0116
7	EPA-314.0	05/09/14	05/10/14 05:45	LD1	IC6	1	BXE0936

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409433-08	Client Sample Name: JPL-GW, DUP-4-2Q14, 4/29/2014 10:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		1
Total Recoverable Chromium	1.1	ug/L	3.0	0.50	EPA-200.8	ND	J	1
Total Recoverable Iron	940	ug/L	50	6.5	EPA-200.7	ND		2
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	05/05/14	05/06/14 04:45	EAR	PE-EL2	1	BXE0327
2	EPA-200.7	05/02/14	05/06/14 20:41	JRG	PE-OP2	1	BXE0227

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3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409433-09	Client Sample Name: JPL-GW, MW-21-5, 4/29/2014 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
Chloroform	6.4	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: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409433-09	Client Sample Name: JPL-GW, MW-21-5, 4/29/2014 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
Tetrachloroethene	0.78	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	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	V11	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: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409433-09	Client Sample Name: JPL-GW, MW-21-5, 4/29/2014 12:15:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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	V11	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	V11	1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND	V11	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	V11	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)	98.7	%	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	04/30/14	04/30/14 19:12	MGC	MS-V5	1	BXD2412

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3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409433-09	Client Sample Name: JPL-GW, MW-21-5, 4/29/2014 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	04/30/14	04/30/14 19:12	MGC	MS-V5	1	BXD2412

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409433-09	Client Sample Name: JPL-GW, MW-21-5, 4/29/2014 12:15:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	98	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	31	mg/L	0.050	0.020	EPA-200.7	ND		1
Total Recoverable Sodium	39	mg/L	0.50	0.017	EPA-200.7	0.098		1
Total Recoverable Potassium	2.7	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	200	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	170	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	80	mg/L	0.50	0.067	EPA-300.0	0.25		3
Nitrate as N	5.3	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	130	mg/L	1.0	0.18	EPA-300.0	0.31		3
pH	7.91	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	530	mg/L	33	33	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Instrument	Dilution	QC
			Date/Time	Analyst			Batch ID
1	EPA-200.7	05/02/14	05/06/14 20:43	JRG	PE-OP2	1	BXE0227
2	SM-2320B	04/30/14	04/30/14 19:25	RML	MET-1	1	BXD2576
3	EPA-300.0	04/30/14	04/30/14 22:27	OLH	IC5	1	BXE0019
4	EPA-150.1	04/30/14	04/30/14 19:25	RML	MET-1	1	BXD2576
5	EPA-160.1	05/02/14	05/02/14 12:30	FRP	MANUAL	3.333	BXE0197
6	EPA-353.2	04/30/14	04/30/14 07:59	TDC	KONE-1	1	BXE0116
7	EPA-314.0	05/09/14	05/10/14 05:59	LD1	IC6	1	BXE0936

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409433-09	Client Sample Name: JPL-GW, MW-21-5, 4/29/2014 12:15:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		1
Total Recoverable Chromium	1.2	ug/L	3.0	0.50	EPA-200.8	ND	J	1
Total Recoverable Iron	6.5	ug/L	50	6.5	EPA-200.7	ND	J	2
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	05/05/14	05/06/14 04:48	EAR	PE-EL2	1	BXE0327
2	EPA-200.7	05/02/14	05/06/14 20:43	JRG	PE-OP2	1	BXE0227

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Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409433-10	Client Sample Name: JPL-GW, MW-21-4, 4/29/2014 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	7.6	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	0.11	ug/L	0.50	0.085	EPA-524.2	ND	J	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409433-10	Client Sample Name: JPL-GW, MW-21-4, 4/29/2014 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	0.81	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.12	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND	V11	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: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409433-10	Client Sample Name: JPL-GW, MW-21-4, 4/29/2014 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	V11	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	V11	1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND	V11	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	V11	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)	99.4	%	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	04/30/14	04/30/14 19:34	MGC	MS-V5	1	BXD2412

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409433-10	Client Sample Name: JPL-GW, MW-21-4, 4/29/2014 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	04/30/14	04/30/14 19:34	MGC	MS-V5	1	BXD2412

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3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409433-10		Client Sample Name: JPL-GW, MW-21-4, 4/29/2014 1:00:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	89	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	29	mg/L	0.050	0.020	EPA-200.7	ND		1
Total Recoverable Sodium	31	mg/L	0.50	0.017	EPA-200.7	0.098		1
Total Recoverable Potassium	2.4	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	190	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	150	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	77	mg/L	0.50	0.067	EPA-300.0	0.25		3
Nitrate as N	5.2	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	130	mg/L	1.0	0.18	EPA-300.0	0.31		3
pH	7.73	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	490	mg/L	33	33	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	2.2	ug/L	4.0	0.45	EPA-314.0	ND	J	7

Run #	Method	Prep Date	Run		Instrument	Dilution	QC	
			Date/Time	Analyst			Batch ID	
1	EPA-200.7	05/02/14	05/06/14 20:46	JRG	PE-OP2	1	BXE0227	
2	SM-2320B	04/30/14	04/30/14 19:30	RML	MET-1	1	BXD2576	
3	EPA-300.0	04/30/14	04/30/14 22:41	OLH	IC5	1	BXE0019	
4	EPA-150.1	04/30/14	04/30/14 19:30	RML	MET-1	1	BXD2576	
5	EPA-160.1	05/02/14	05/02/14 12:30	FRP	MANUAL	3.333	BXE0197	
6	EPA-353.2	04/30/14	04/30/14 07:59	TDC	KONE-1	1	BXE0116	
7	EPA-314.0	05/12/14	05/12/14 11:51	LD1	IC6	1	BXE0937	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409433-10	Client Sample Name: JPL-GW, MW-21-4, 4/29/2014 1:00:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		1
Total Recoverable Chromium	1.2	ug/L	3.0	0.50	EPA-200.8	ND	J	1
Total Recoverable Iron	400	ug/L	50	6.5	EPA-200.7	ND		2
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	05/05/14	05/06/14 04:51	EAR	PE-EL2	1	BXE0327
2	EPA-200.7	05/02/14	05/06/14 20:46	JRG	PE-OP2	1	BXE0227

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409433-11	Client Sample Name: JPL-GW, MW-21-3, 4/29/2014 1:35:00PM, 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	1.0	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.17	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	0.37	ug/L	0.50	0.085	EPA-524.2	ND	J	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409433-11	Client Sample Name: JPL-GW, MW-21-3, 4/29/2014 1:35:00PM, 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	0.22	ug/L	0.50	0.11	EPA-524.2	ND	J	1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	3.1	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	1.1	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409433-11	Client Sample Name: JPL-GW, MW-21-3, 4/29/2014 1:35:00PM, 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		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	V11	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)	90.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/30/14	05/01/14 01:13	MGC	MS-V5	1	BXD2412

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Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409433-11	Client Sample Name: JPL-GW, MW-21-3, 4/29/2014 1:35:00PM, 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	04/30/14	05/01/14 01:13	MGC	MS-V5	1	BXD2412

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409433-11		Client Sample Name: JPL-GW, MW-21-3, 4/29/2014 1:35:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	150	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	48	mg/L	0.050	0.020	EPA-200.7	ND		1
Total Recoverable Sodium	57	mg/L	0.50	0.017	EPA-200.7	0.098		1
Total Recoverable Potassium	3.7	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	350	mg/L	10	10	SM-2320B	ND		2
Carbonate	ND	mg/L	5.0	5.0	SM-2320B	ND		2
Total Alkalinity as CaCO3	290	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	120	mg/L	0.50	0.067	EPA-300.0	0.18		3
Nitrate as N	10	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	160	mg/L	1.0	0.18	EPA-300.0	0.34		3
pH	7.71	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	800	mg/L	50	50	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	4.0	ug/L	4.0	0.45	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Instrument	Dilution	QC	
			Date/Time	Analyst			Batch ID	
1	EPA-200.7	05/02/14	05/06/14 20:48	JRG	PE-OP2	1	BXE0227	
2	SM-2320B	04/30/14	04/30/14 19:36	RML	MET-1	2	BXD2576	
3	EPA-300.0	04/30/14	04/30/14 23:21	LD1	IC5	1	BXE0020	
4	EPA-150.1	04/30/14	04/30/14 19:36	RML	MET-1	1	BXD2576	
5	EPA-160.1	05/02/14	05/02/14 12:30	FRP	MANUAL	5	BXE0197	
6	EPA-353.2	04/30/14	04/30/14 07:59	TDC	KONE-1	1	BXE0116	
7	EPA-314.0	05/12/14	05/12/14 13:14	LD1	IC6	1	BXE0937	

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Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409433-11	Client Sample Name: JPL-GW, MW-21-3, 4/29/2014 1:35:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		1
Total Recoverable Iron	27	ug/L	50	6.5	EPA-200.7	ND	J	2
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	05/05/14	05/06/14 04:55	EAR	PE-EL2	1	BXE0327
2	EPA-200.7	05/02/14	05/06/14 20:48	JRG	PE-OP2	1	BXE0227

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Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409433-12	Client Sample Name: JPL-GW, MW-21-2, 4/29/2014 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
Chloroform	0.37	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409433-12	Client Sample Name: JPL-GW, MW-21-2, 4/29/2014 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	0.16	ug/L	0.50	0.11	EPA-524.2	ND	J	1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	1.5	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.33	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409433-12	Client Sample Name: JPL-GW, MW-21-2, 4/29/2014 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		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	V11	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)	111	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.3	%	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	04/30/14	05/01/14 01:36	MGC	MS-V5	1	BXD2412

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409433-12	Client Sample Name: JPL-GW, MW-21-2, 4/29/2014 2:05:00PM, Blaine Tech
----------------------------------	--

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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	04/30/14	05/01/14 01:36	MGC	MS-V5	1	BXD2412

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409433-12	Client Sample Name: JPL-GW, MW-21-2, 4/29/2014 2:05:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	150	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	49	mg/L	0.050	0.020	EPA-200.7	ND		1
Total Recoverable Sodium	56	mg/L	0.50	0.017	EPA-200.7	0.13		1
Total Recoverable Potassium	3.0	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	350	mg/L	10	10	SM-2320B	ND	S05	2
Carbonate	ND	mg/L	5.0	5.0	SM-2320B	ND	S05	2
Total Alkalinity as CaCO3	290	mg/L	8.2	8.2	SM-2320B	ND	S05	2
Chloride	160	mg/L	0.50	0.067	EPA-300.0	0.18		3
Nitrate as N	9.0	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	180	mg/L	1.0	0.18	EPA-300.0	0.34		3
pH	7.64	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	860	mg/L	50	50	EPA-160.1	ND		5
Nitrite as N	0.022	mg/L	0.050	0.012	EPA-353.2	ND	J	6
Perchlorate	2.8	ug/L	4.0	0.45	EPA-314.0	ND	J	7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	05/02/14	05/05/14	18:16	JRG	PE-OP2	1	BXE0228
2	SM-2320B	05/14/14	05/14/14	15:17	RPL	MET-1	2	BXE1214
3	EPA-300.0	04/30/14	05/01/14	12:18	LD1	IC5	1	BXE0020
4	EPA-150.1	05/14/14	05/14/14	15:17	RPL	MET-1	1	BXE1214
5	EPA-160.1	05/02/14	05/02/14	12:30	FRP	MANUAL	5	BXE0197
6	EPA-353.2	04/30/14	04/30/14	07:59	TDC	KONE-1	1	BXE0117
7	EPA-314.0	05/12/14	05/12/14	13:28	LD1	IC6	1	BXE0937

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409433-12	Client Sample Name: JPL-GW, MW-21-2, 4/29/2014 2:05:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		1
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		1
Total Recoverable Iron	ND	ug/L	50	6.5	EPA-200.7	ND		2
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	05/05/14	05/06/14 03:27	EAR	PE-EL2	1	BXE0328
2	EPA-200.7	05/02/14	05/05/14 18:16	JRG	PE-OP2	1	BXE0228

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409433-13	Client Sample Name: JPL-GW, MW-21-1, 4/29/2014 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
Chloroform	1.0	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: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409433-13	Client Sample Name: JPL-GW, MW-21-1, 4/29/2014 2:40:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.34	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	1.1	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409433-13	Client Sample Name: JPL-GW, MW-21-1, 4/29/2014 2:40:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	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	V11	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)	85.5	%	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	04/30/14	05/01/14 01:59	MGC	MS-V5	1	BXD2412

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Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409433-13	Client Sample Name: JPL-GW, MW-21-1, 4/29/2014 2:40:00PM, 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	04/30/14	05/01/14 01:59	MGC	MS-V5	1	BXD2412

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409433-13	Client Sample Name: JPL-GW, MW-21-1, 4/29/2014 2:40:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	99	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	33	mg/L	0.050	0.020	EPA-200.7	ND		1
Total Recoverable Sodium	40	mg/L	0.50	0.017	EPA-200.7	0.13		1
Total Recoverable Potassium	2.2	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	200	mg/L	5.0	5.0	SM-2320B	ND	S05	2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND	S05	2
Total Alkalinity as CaCO3	160	mg/L	4.1	4.1	SM-2320B	ND	S05	2
Chloride	82	mg/L	0.50	0.067	EPA-300.0	0.18		3
Nitrate as N	11	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	150	mg/L	1.0	0.18	EPA-300.0	0.34		3
pH	7.13	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	590	mg/L	33	33	EPA-160.1	ND		5
Nitrite as N	0.015	mg/L	0.050	0.012	EPA-353.2	ND	J	6
Perchlorate	12	ug/L	4.0	0.45	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	05/02/14	05/05/14	18:19	JRG	PE-OP2	1	BXE0228
2	SM-2320B	05/14/14	05/14/14	15:44	RLP	MET-1	1	BXE1215
3	EPA-300.0	04/30/14	05/01/14	00:55	LD1	IC5	1	BXE0020
4	EPA-150.1	05/14/14	05/14/14	15:44	RLP	MET-1	1	BXE1215
5	EPA-160.1	05/02/14	05/02/14	12:30	FRP	MANUAL	3.333	BXE0197
6	EPA-353.2	04/30/14	04/30/14	08:03	TDC	KONE-1	1	BXE0117
7	EPA-314.0	05/12/14	05/12/14	13:42	LD1	IC6	1	BXE0937

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409433-13	Client Sample Name: JPL-GW, MW-21-1, 4/29/2014 2:40:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		1
Total Recoverable Chromium	1.6	ug/L	3.0	0.50	EPA-200.8	ND	J	1
Total Recoverable Iron	80	ug/L	50	6.5	EPA-200.7	ND		2
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.8	05/05/14	05/06/14 05:30	EAR	PE-EL2	1	BXE0328
2	EPA-200.7	05/02/14	05/05/14 18:19	JRG	PE-OP2	1	BXE0228

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2412						
Benzene	BXD2412-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXD2412-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXD2412-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXD2412-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXD2412-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXD2412-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXD2412-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXD2412-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXD2412-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXD2412-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXD2412-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXD2412-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXD2412-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXD2412-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXD2412-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXD2412-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BXD2412-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXD2412-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXD2412-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXD2412-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXD2412-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXD2412-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXD2412-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXD2412-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXD2412-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXD2412-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXD2412-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXD2412-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXD2412-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXD2412-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXD2412-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXD2412-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXD2412-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXD2412-BLK1	ND	ug/L	0.50	0.14	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2412						
trans-1,3-Dichloropropene	BXD2412-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXD2412-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXD2412-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXD2412-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXD2412-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXD2412-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXD2412-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXD2412-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXD2412-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXD2412-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXD2412-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BXD2412-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BXD2412-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXD2412-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXD2412-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXD2412-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BXD2412-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXD2412-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXD2412-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXD2412-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXD2412-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXD2412-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXD2412-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXD2412-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXD2412-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXD2412-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXD2412-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXD2412-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXD2412-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXD2412-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXD2412-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXD2412-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXD2412-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXD2412-BLK1	ND	ug/L	4.0	0.97	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
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QC Batch ID: BXD2412

Ethyl t-butyl ether	BXD2412-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXD2412-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXD2412-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXD2412-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXD2412-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXD2412-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXD2412-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXD2412-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXD2412-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXD2412-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXD2412-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXD2412-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXD2412-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BXD2412-BLK1	105	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BXD2412-BLK1	102	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BXD2412-BLK1	91.4	%	80 - 120 (LCL - UCL)		

QC Batch ID: BXD2532

Benzene	BXD2532-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXD2532-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXD2532-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXD2532-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXD2532-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXD2532-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXD2532-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXD2532-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXD2532-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXD2532-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXD2532-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXD2532-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXD2532-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXD2532-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXD2532-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXD2532-BLK1	ND	ug/L	0.50	0.15	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2532						
Dibromochloromethane	BXD2532-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXD2532-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXD2532-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXD2532-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXD2532-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXD2532-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXD2532-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXD2532-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXD2532-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXD2532-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXD2532-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXD2532-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXD2532-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXD2532-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXD2532-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXD2532-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXD2532-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXD2532-BLK1	ND	ug/L	0.50	0.14	
trans-1,3-Dichloropropene	BXD2532-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXD2532-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXD2532-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXD2532-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXD2532-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXD2532-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXD2532-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXD2532-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXD2532-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXD2532-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXD2532-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BXD2532-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BXD2532-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXD2532-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXD2532-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXD2532-BLK1	ND	ug/L	0.50	0.19	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2532						
1,1,1-Trichloroethane	BXD2532-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXD2532-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXD2532-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXD2532-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXD2532-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXD2532-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXD2532-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXD2532-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXD2532-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXD2532-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXD2532-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXD2532-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXD2532-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXD2532-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXD2532-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXD2532-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXD2532-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXD2532-BLK1	ND	ug/L	4.0	0.97	
Ethyl t-butyl ether	BXD2532-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXD2532-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXD2532-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXD2532-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXD2532-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXD2532-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXD2532-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXD2532-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXD2532-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXD2532-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXD2532-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXD2532-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXD2532-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BXD2532-BLK1	96.6	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BXD2532-BLK1	100	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BXD2532-BLK1	82.6	%	80 - 120 (LCL - UCL)		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXD2412										
Benzene	BXD2412-BS1	LCS	21.340	25.000	ug/L	85.4		70 - 130		
Bromodichloromethane	BXD2412-BS1	LCS	30.170	25.000	ug/L	121		70 - 130		
Chlorobenzene	BXD2412-BS1	LCS	24.680	25.000	ug/L	98.7		70 - 130		
Chloroethane	BXD2412-BS1	LCS	22.790	25.000	ug/L	91.2		70 - 130		
1,4-Dichlorobenzene	BXD2412-BS1	LCS	28.120	25.000	ug/L	112		70 - 130		
1,1-Dichloroethane	BXD2412-BS1	LCS	23.010	25.000	ug/L	92.0		70 - 130		
1,1-Dichloroethene	BXD2412-BS1	LCS	24.940	25.000	ug/L	99.8		70 - 130		
Toluene	BXD2412-BS1	LCS	24.600	25.000	ug/L	98.4		70 - 130		
Trichloroethene	BXD2412-BS1	LCS	27.100	25.000	ug/L	108		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXD2412-BS1	LCS	11.240	10.000	ug/L	112		75 - 125		
Toluene-d8 (Surrogate)	BXD2412-BS1	LCS	10.280	10.000	ug/L	103		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXD2412-BS1	LCS	12.130	10.000	ug/L	121		80 - 120		S09

QC Batch ID: BXD2532										
Benzene	BXD2532-BS1	LCS	22.220	25.000	ug/L	88.9		70 - 130		
Bromodichloromethane	BXD2532-BS1	LCS	29.920	25.000	ug/L	120		70 - 130		
Chlorobenzene	BXD2532-BS1	LCS	25.820	25.000	ug/L	103		70 - 130		
Chloroethane	BXD2532-BS1	LCS	22.600	25.000	ug/L	90.4		70 - 130		
1,4-Dichlorobenzene	BXD2532-BS1	LCS	30.960	25.000	ug/L	124		70 - 130		
1,1-Dichloroethane	BXD2532-BS1	LCS	23.520	25.000	ug/L	94.1		70 - 130		
1,1-Dichloroethene	BXD2532-BS1	LCS	23.780	25.000	ug/L	95.1		70 - 130		
Toluene	BXD2532-BS1	LCS	25.810	25.000	ug/L	103		70 - 130		
Trichloroethene	BXD2532-BS1	LCS	26.130	25.000	ug/L	105		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXD2532-BS1	LCS	10.410	10.000	ug/L	104		75 - 125		
Toluene-d8 (Surrogate)	BXD2532-BS1	LCS	10.090	10.000	ug/L	101		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXD2532-BS1	LCS	11.410	10.000	ug/L	114		80 - 120		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BXD2412		Used client sample: Y - Description: MW-17-1, 04/28/2014 11:10								
Benzene	MS	1409332-07	ND	23.420	25.000	ug/L		93.7		70 - 130
	MSD	1409332-07	ND	22.610	25.000	ug/L	3.5	90.4	20	70 - 130
Bromodichloromethane	MS	1409332-07	ND	32.140	25.000	ug/L		129		70 - 130
	MSD	1409332-07	ND	31.100	25.000	ug/L	3.3	124	20	70 - 130
Chlorobenzene	MS	1409332-07	ND	25.990	25.000	ug/L		104		70 - 130
	MSD	1409332-07	ND	26.140	25.000	ug/L	0.6	105	20	70 - 130
Chloroethane	MS	1409332-07	ND	24.630	25.000	ug/L		98.5		70 - 130
	MSD	1409332-07	ND	23.070	25.000	ug/L	6.5	92.3	20	70 - 130
1,4-Dichlorobenzene	MS	1409332-07	ND	30.450	25.000	ug/L		122		70 - 130
	MSD	1409332-07	ND	29.530	25.000	ug/L	3.1	118	20	70 - 130
1,1-Dichloroethane	MS	1409332-07	ND	25.390	25.000	ug/L		102		70 - 130
	MSD	1409332-07	ND	24.690	25.000	ug/L	2.8	98.8	20	70 - 130
1,1-Dichloroethene	MS	1409332-07	ND	26.350	25.000	ug/L		105		70 - 130
	MSD	1409332-07	ND	25.890	25.000	ug/L	1.8	104	20	70 - 130
Toluene	MS	1409332-07	ND	26.140	25.000	ug/L		105		70 - 130
	MSD	1409332-07	ND	25.790	25.000	ug/L	1.3	103	20	70 - 130
Trichloroethene	MS	1409332-07	ND	26.970	25.000	ug/L		108		70 - 130
	MSD	1409332-07	ND	26.530	25.000	ug/L	1.6	106	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1409332-07	ND	11.030	10.000	ug/L		110		75 - 125
	MSD	1409332-07	ND	10.810	10.000	ug/L	2.0	108		75 - 125
Toluene-d8 (Surrogate)	MS	1409332-07	ND	10.130	10.000	ug/L		101		80 - 120
	MSD	1409332-07	ND	10.270	10.000	ug/L	1.4	103		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1409332-07	ND	11.540	10.000	ug/L		115		80 - 120
	MSD	1409332-07	ND	11.200	10.000	ug/L	3.0	112		80 - 120

QC Batch ID: BXD2532		Used client sample: Y - Description: EB-7-4/29/14, 04/29/2014 07:15								
Benzene	MS	1409433-02	ND	23.360	25.000	ug/L		93.4		70 - 130
	MSD	1409433-02	ND	23.180	25.000	ug/L	0.8	92.7	20	70 - 130
Bromodichloromethane	MS	1409433-02	ND	31.800	25.000	ug/L		127		70 - 130
	MSD	1409433-02	ND	30.480	25.000	ug/L	4.2	122	20	70 - 130
Chlorobenzene	MS	1409433-02	ND	26.150	25.000	ug/L		105		70 - 130
	MSD	1409433-02	ND	26.490	25.000	ug/L	1.3	106	20	70 - 130
Chloroethane	MS	1409433-02	ND	24.170	25.000	ug/L		96.7		70 - 130
	MSD	1409433-02	ND	23.330	25.000	ug/L	3.5	93.3	20	70 - 130
1,4-Dichlorobenzene	MS	1409433-02	ND	29.670	25.000	ug/L		119		70 - 130
	MSD	1409433-02	ND	30.490	25.000	ug/L	2.7	122	20	70 - 130
1,1-Dichloroethane	MS	1409433-02	ND	24.930	25.000	ug/L		99.7		70 - 130
	MSD	1409433-02	ND	24.410	25.000	ug/L	2.1	97.6	20	70 - 130

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXD2532		Used client sample: Y - Description: EB-7-4/29/14, 04/29/2014 07:15								
1,1-Dichloroethene	MS	1409433-02	ND	25.710	25.000	ug/L		103		70 - 130
	MSD	1409433-02	ND	24.340	25.000	ug/L	5.5	97.4	20	70 - 130
Toluene	MS	1409433-02	ND	26.970	25.000	ug/L		108		70 - 130
	MSD	1409433-02	ND	26.040	25.000	ug/L	3.5	104	20	70 - 130
Trichloroethene	MS	1409433-02	ND	27.380	25.000	ug/L		110		70 - 130
	MSD	1409433-02	ND	26.570	25.000	ug/L	3.0	106	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1409433-02	ND	10.600	10.000	ug/L		106		75 - 125
	MSD	1409433-02	ND	10.370	10.000	ug/L	2.2	104		75 - 125
Toluene-d8 (Surrogate)	MS	1409433-02	ND	10.260	10.000	ug/L		103		80 - 120
	MSD	1409433-02	ND	10.130	10.000	ug/L	1.3	101		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1409433-02	ND	10.850	10.000	ug/L		108		80 - 120
	MSD	1409433-02	ND	10.820	10.000	ug/L	0.3	108		80 - 120

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2412						
Chloroacetonitrile	BXD2412-BLK1	0	ug/L			
1-Chlorobutane	BXD2412-BLK1	0	ug/L			
1,1-Dichloropropanone	BXD2412-BLK1	0	ug/L			
Methyl acrylate	BXD2412-BLK1	0	ug/L			
Nitrobenzene	BXD2412-BLK1	0	ug/L			
2-Nitropropane	BXD2412-BLK1	0	ug/L			

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXD2576						
Bicarbonate	BXD2576-BLK1	ND	mg/L	5.0	5.0	
Carbonate	BXD2576-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	BXD2576-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXE0019						
Chloride	BXE0019-BLK1	0.25200	mg/L	0.50	0.067	J
Nitrate as N	BXE0019-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXE0019-BLK1	0.30800	mg/L	1.0	0.18	J
QC Batch ID: BXE0020						
Chloride	BXE0020-BLK1	0.17900	mg/L	0.50	0.067	J
Nitrate as N	BXE0020-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXE0020-BLK1	0.34100	mg/L	1.0	0.18	J
QC Batch ID: BXE0116						
Nitrite as N	BXE0116-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXE0117						
Nitrite as N	BXE0117-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXE0196						
Total Dissolved Solids @ 180 C	BXE0196-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXE0197						
Total Dissolved Solids @ 180 C	BXE0197-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXE0227						
Total Recoverable Calcium	BXE0227-BLK1	ND	mg/L	0.10	0.014	
Total Recoverable Magnesium	BXE0227-BLK1	ND	mg/L	0.050	0.019	
Total Recoverable Sodium	BXE0227-BLK1	0.097583	mg/L	0.50	0.017	J
Total Recoverable Potassium	BXE0227-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXE0228						
Total Recoverable Calcium	BXE0228-BLK1	ND	mg/L	0.10	0.014	
Total Recoverable Magnesium	BXE0228-BLK1	ND	mg/L	0.050	0.019	
Total Recoverable Sodium	BXE0228-BLK1	0.13370	mg/L	0.50	0.017	J
Total Recoverable Potassium	BXE0228-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXE0936						

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0936						
Perchlorate	BXE0936-BLK1	ND	ug/L	4.0	0.45	
QC Batch ID: BXE0937						
Perchlorate	BXE0937-BLK1	ND	ug/L	4.0	0.45	
QC Batch ID: BXE1214						
Bicarbonate	BXE1214-BLK1	ND	mg/L	5.0	5.0	
Carbonate	BXE1214-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	BXE1214-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXE1215						
Bicarbonate	BXE1215-BLK1	ND	mg/L	5.0	5.0	
Carbonate	BXE1215-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	BXE1215-BLK1	ND	mg/L	4.1	4.1	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXD2576										
Total Alkalinity as CaCO3	BXD2576-BS3	LCS	100.10	100.00	mg/L	100		90 - 110		
pH	BXD2576-BS2	LCS	7.0200	7.0000	pH Units	100		95 - 105		
QC Batch ID: BXE0019										
Chloride	BXE0019-BS1	LCS	52.536	50.000	mg/L	105		90 - 110		
Nitrate as N	BXE0019-BS1	LCS	5.2960	5.0000	mg/L	106		90 - 110		
Sulfate	BXE0019-BS1	LCS	105.28	100.00	mg/L	105		90 - 110		
QC Batch ID: BXE0020										
Chloride	BXE0020-BS1	LCS	52.507	50.000	mg/L	105		90 - 110		
Nitrate as N	BXE0020-BS1	LCS	5.2710	5.0000	mg/L	105		90 - 110		
Sulfate	BXE0020-BS1	LCS	104.91	100.00	mg/L	105		90 - 110		
QC Batch ID: BXE0116										
Nitrite as N	BXE0116-BS1	LCS	0.52205	0.50000	mg/L	104		90 - 110		
QC Batch ID: BXE0117										
Nitrite as N	BXE0117-BS1	LCS	0.51429	0.50000	mg/L	103		90 - 110		
QC Batch ID: BXE0196										
Total Dissolved Solids @ 180 C	BXE0196-BS1	LCS	560.00	586.00	mg/L	95.6		90 - 110		
QC Batch ID: BXE0197										
Total Dissolved Solids @ 180 C	BXE0197-BS1	LCS	595.00	586.00	mg/L	102		90 - 110		
QC Batch ID: BXE0227										
Total Recoverable Calcium	BXE0227-BS1	LCS	10.093	10.000	mg/L	101		85 - 115		
Total Recoverable Magnesium	BXE0227-BS1	LCS	10.509	10.000	mg/L	105		85 - 115		
Total Recoverable Sodium	BXE0227-BS1	LCS	10.531	10.000	mg/L	105		85 - 115		
Total Recoverable Potassium	BXE0227-BS1	LCS	10.209	10.000	mg/L	102		85 - 115		
QC Batch ID: BXE0228										
Total Recoverable Calcium	BXE0228-BS1	LCS	9.6900	10.000	mg/L	96.9		85 - 115		
Total Recoverable Magnesium	BXE0228-BS1	LCS	9.9215	10.000	mg/L	99.2		85 - 115		
Total Recoverable Sodium	BXE0228-BS1	LCS	10.016	10.000	mg/L	100		85 - 115		
Total Recoverable Potassium	BXE0228-BS1	LCS	9.7604	10.000	mg/L	97.6		85 - 115		
QC Batch ID: BXE0936										
Perchlorate	BXE0936-BS1	LCS	11.201	10.000	ug/L	112		85 - 115		
QC Batch ID: BXE0937										
Perchlorate	BXE0937-BS1	LCS	10.725	10.000	ug/L	107		85 - 115		

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXE1214										
Total Alkalinity as CaCO3	BXE1214-BS3	LCS	101.17	100.00	mg/L	101		90 - 110		
pH	BXE1214-BS2	LCS	7.0300	7.0000	pH Units	100		95 - 105		
QC Batch ID: BXE1215										
Total Alkalinity as CaCO3	BXE1215-BS3	LCS	101.17	100.00	mg/L	101		90 - 110		
pH	BXE1215-BS2	LCS	7.0300	7.0000	pH Units	100		95 - 105		

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)
Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quails. Includes QC Batch IDs: BXD2576, BXE0019, BXE0020, BXE0116, BXE0117, BXE0196, BXE0197.

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Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes QC Batch IDs BXE0227, BXE0228, BXE0936, and BXE0937.

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Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BXE1214		Used client sample: N								
pH	DUP	1410630-02	3.8200	3.8100		pH Units	0.3		20	
QC Batch ID: BXE1215		Used client sample: Y - Description: MW-21-1, 04/29/2014 14:40								
Bicarbonate	DUP	1409433-13	198.11	198.47		mg/L	0.2		10	
Carbonate	DUP	1409433-13	ND	ND		mg/L			10	
Total Alkalinity as CaCO3	DUP	1409433-13	162.48	162.78		mg/L	0.2		10	
pH	DUP	1409433-13	7.1300	7.1500		pH Units	0.3		20	

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Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0227						
Total Recoverable Iron	BXE0227-BLK1	ND	ug/L	50	6.5	
QC Batch ID: BXE0228						
Total Recoverable Iron	BXE0228-BLK1	ND	ug/L	50	6.5	
QC Batch ID: BXE0327						
Total Recoverable Arsenic	BXE0327-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	BXE0327-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	BXE0327-BLK1	ND	ug/L	1.0	0.10	
QC Batch ID: BXE0328						
Total Recoverable Arsenic	BXE0328-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	BXE0328-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	BXE0328-BLK1	ND	ug/L	1.0	0.10	

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Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXE0227										
Total Recoverable Iron	BXE0227-BS1	LCS	1044.5	1000.0	ug/L	104		85	115	
QC Batch ID: BXE0228										
Total Recoverable Iron	BXE0228-BS1	LCS	1022.3	1000.0	ug/L	102		85	115	
QC Batch ID: BXE0327										
Total Recoverable Arsenic	BXE0327-BS1	LCS	97.996	100.00	ug/L	98.0		85	115	
Total Recoverable Chromium	BXE0327-BS1	LCS	38.873	40.000	ug/L	97.2		85	115	
Total Recoverable Lead	BXE0327-BS1	LCS	98.896	100.00	ug/L	98.9		85	115	
QC Batch ID: BXE0328										
Total Recoverable Arsenic	BXE0328-BS1	LCS	95.174	100.00	ug/L	95.2		85	115	
Total Recoverable Chromium	BXE0328-BS1	LCS	38.730	40.000	ug/L	96.8		85	115	
Total Recoverable Lead	BXE0328-BS1	LCS	98.749	100.00	ug/L	98.7		85	115	

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Control Limits Percent Recovery, Lab Quals. Includes QC Batch IDs BXE0227, BXE0228, BXE0327, and BXE0328.

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Powell, OH 43065

Reported: 05/19/2014 11:31
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A02 The difference between duplicate readings is less than the PQL.
- Q03 Matrix spike recovery(s) is(are) not within the control limits.
- S05 The sample holding time was exceeded.
- S09 The surrogate recovery on the sample for this compound was not within the control limits.
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.



Date of Report: 05/19/2014

David Conner

Tidewater Inc.

3761 Attucks Drive
Powell, OH 43065

Client Project: 2nd Qtr.
BCL Project: JPL- GW Monitoring Wells
BCL Work Order: 1409554
Invoice ID: B173477

Enclosed are the results of analyses for samples received by the laboratory on 4/30/2014. 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; AK UST101

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Chain of Custody Form

Page 1 of 2

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@tideh2o.net
Submission #: 14-09554

Project Description: JPL-GW Monitoring
Project Code: 2nd Qtr.
Sampler (s): Blaine Tech

Analysis Requested:
 VOCs EPA 524.2
 TRM: Cr, Pb, As, Ca, Mg, K
 Na, Fe
 Hexavalent Cr6 - 7196 (mg/L)
 Cl, NO3, NO2, SO4, Perch.
 CO3, HCO3, Alk, TDS, pH
 Orthophosphate 365.1
 8270 Phenols
 8270 PAHs

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? less than or equal to 48 hours?
 Yes No
 *Standard Turnaround = 10

Sample #	Sample Description	Date	Time	Matrix*
-1	TB-B-4/30/14	4-30-14	0600	AW
-2	SB-3-4/30/14		0610	
-3	EB-B-4/30/14		0615	
-4	MW-23-5		0640	
-5	MW-23-4		0720	
-6	MW-23-3		0750	
-7	MW-23-2		0820	
-8	MW-23-1		0850	
-9	MW-4-5		0940	
-10	MW-4-4		1020	
-11	MW-4-3		1055	

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

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

Lab TAT Approval: _____ *Additional Charges May Apply

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

Cost Center:
 1. Relinquished By: _____ Date: 4-30-14 Time: 1620
 2. Relinquished By: _____ Date: 4-30-14 Time: 1630
 3. Relinquished By: _____ Date: 4-30-14 Time: 1630

Global ID:
 1. Received By: _____ Date: 4-30-14 Time: 1620
 2. Received By: _____ Date: 4-30-14 Time: 1630
 3. Received By: _____ Date: 4-30-14 Time: 1630

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

Report To: Tidewater, Inc.
 Client: David Connor
 Street Address: 3761 Attucks Drive
 City: Powell State: OH Zip: 43065
 Phone: (614) 792-2897 Fax: (614) 792-2897
 Email Address: david.connor@tiden2o.net
 Submission #: 4-04554

Project Description: JPL-GW Monitoring
 Project Code: 2nd Qtr.
 Sampler(s): Blaine Tech

Analysis Requested:
 VOCs EPA 524.2
 TRM: Cr, Pb, As, Ca, Mg, K
 Na, Fe
 Hexavalent Cr6 - 7196 (mg/L)
 Cl, NO3, NO2, SO4, Perch.,
 Orthophosphate 365.1
 8270 Phenols
 8270 PAHs

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. Requisitioned By: [Signature] Date: 4-30-14 Time: 1620
 2. Relinquished By: [Signature] Date: 4-30-14 Time: 1630
 3. Requisitioned By: [Signature] Date: 4-30-14 Time: 2050
 3. Relinquished By: [Signature] Date: 4-30-14 Time: 2050

Global ID: [Blank]

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)

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. Requisitioned By: [Signature] Date: 4-30-14 Time: 1620
 2. Relinquished By: [Signature] Date: 4-30-14 Time: 1630
 3. Requisitioned By: [Signature] Date: 4-30-14 Time: 2050
 3. Relinquished By: [Signature] Date: 4-30-14 Time: 2050

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. 15 07/01/13 Page 1 Of 2

Submission #: 1409554

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: 0.95 Container: PE Thermometer ID: 207 Date/Time: 4/30/14 2050
 Temperature: (A) 1.5 °C (C) 1.5 °C Analyst Init: BP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/GENERAL	B	B	B	B	B	B	B	B	B	B
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS	C	C	C	C	C	C	C	C	C	C
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	A1									
40ml VOA VIAL		A, B	A, B	A, B	A, B	A, B	A, B	A, B	A, B	A, B
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

CHK BY: [Signature] DISTRIBUTION: [Signature]
 SUB-OUT:

SHORT HOLDING TIME: [Signature]
 Cr⁶⁺ NO₂ NO₃ OP SS
 DO Cl₂ BOD MBAS CO

Comments: _____
 Sample Numbering Completed By: BP Date/Time: 4/30/14 2130



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

Submission #: 14-09554

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: 0.95 Container: PE Thermometer ID: 207
 Temperature: (A) 1.5 °C / (C) 1.5 °C

Date/Time: 1/20/14 2050
 Analyst Init: BP

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/GENERAL	B	B	B							
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS	C	C	C							
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE/NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
10ml VOA VIAL TRAVEL BLANK										
10ml VOA VIAL	A3	A3	A3							
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
10 ml VOA VIAL-504										
PT EPA 508/608/8080										
PT EPA 515-1/8150-8270 080		DE								
PT EPA 525										
PT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
PT EPA 548										
PT EPA 549										
PT EPA 632										
PT EPA 8015M										
PT AMBER										
1 OZ. JAR										
1/2 OZ. JAR										
OIL SLEEVE										
1/2 GAL VIAL										
PLASTIC BAG										
FERRIC IRON										
PCORE										
4ART KIT										
100ml Canister										

Comments: AD - 1/22/14 2127



Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1409554-01	COC Number: ---	Receive Date: 04/30/2014 20:50
	Project Number: JPL-GW	Sampling Date: 04/30/2014 06:00
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: TB-8-4/30/14	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Aqueous
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): TB-8-4/30/14
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1409554-02	COC Number: ---	Receive Date: 04/30/2014 20:50
	Project Number: JPL-GW	Sampling Date: 04/30/2014 06:10
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: SB-3-4/30/14	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Aqueous
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): SB-3-4/30/14
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1409554-03	COC Number: ---	Receive Date: 04/30/2014 20:50
	Project Number: JPL-GW	Sampling Date: 04/30/2014 06:15
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: EB-8-4/30/14	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Aqueous
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): EB-8-4/30/14
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1409554-04	COC Number: ---	Receive Date: 04/30/2014 20:50
	Project Number: JPL-GW	Sampling Date: 04/30/2014 06:40
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-23-5	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Aqueous
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-23-5
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1409554-05	COC Number: ---	Receive Date: 04/30/2014 20:50
	Project Number: JPL-GW	Sampling Date: 04/30/2014 07:20
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-23-4	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Aqueous
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-23-4
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1409554-06	COC Number: ---	Receive Date: 04/30/2014 20:50
	Project Number: JPL-GW	Sampling Date: 04/30/2014 07:50
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-23-3	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Aqueous
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-23-3
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1409554-07	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-23-2 Sampled By: Blaine Tech of BAT	Receive Date: 04/30/2014 20:50 Sampling Date: 04/30/2014 08:20 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-23-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1409554-08	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-23-1 Sampled By: Blaine Tech of BAT	Receive Date: 04/30/2014 20:50 Sampling Date: 04/30/2014 08:50 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-23-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1409554-09	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-4-5 Sampled By: Blaine Tech of BAT	Receive Date: 04/30/2014 20:50 Sampling Date: 04/30/2014 09:40 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous 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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1409554-10	COC Number: ---	Receive Date: 04/30/2014 20:50
	Project Number: JPL-GW	Sampling Date: 04/30/2014 10:20
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-4-4	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Aqueous
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-4-4
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1409554-11	COC Number: ---	Receive Date: 04/30/2014 20:50
	Project Number: JPL-GW	Sampling Date: 04/30/2014 10:55
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-4-3	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Aqueous
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-4-3
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1409554-12	COC Number: ---	Receive Date: 04/30/2014 20:50
	Project Number: JPL-GW	Sampling Date: 04/30/2014 11:30
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-4-2	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Aqueous
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-4-2
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1409554-13

COC Number: ---
Project Number: JPL-GW
Sampling Location: ---
Sampling Point: MW-4-1
Sampled By: Blaine Tech of BAT

Receive Date: 04/30/2014 20:50
Sampling Date: 04/30/2014 13:20
Sample Depth: ---
Lab Matrix: Water
Sample Type: Aqueous
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: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409554-01	Client Sample Name: JPL-GW, TB-8-4/30/14, 4/30/2014 6:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	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	V11	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: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409554-01 **Client Sample Name:** JPL-GW, TB-8-4/30/14, 4/30/2014 6:00:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	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: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409554-01	Client Sample Name: JPL-GW, TB-8-4/30/14, 4/30/2014 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		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)	99.8	%	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	05/02/14	05/02/14 13:02	MGC	MS-V5	1	BXE0192

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409554-01	Client Sample Name: JPL-GW, TB-8-4/30/14, 4/30/2014 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	05/02/14	05/02/14 13:02	MGC	MS-V5	1	BXE0192

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409554-02	Client Sample Name: JPL-GW, SB-3-4/30/14, 4/30/2014 6:10:00AM, 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	V11	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: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409554-02	Client Sample Name: JPL-GW, SB-3-4/30/14, 4/30/2014 6:10:00AM, 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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409554-02	Client Sample Name: JPL-GW, SB-3-4/30/14, 4/30/2014 6:10:00AM, 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		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	0.090	ug/L	0.50	0.082	EPA-524.2	ND	J	1
1,2-Dichloroethane-d4 (Surrogate)	109	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	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	05/02/14	05/02/14 13:25	MGC	MS-V5	1	BXE0192

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409554-02	Client Sample Name: JPL-GW, SB-3-4/30/14, 4/30/2014 6:10:00AM, 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	05/02/14	05/02/14 13:25	MGC	MS-V5	1	BXE0192

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409554-02		Client Sample Name: JPL-GW, SB-3-4/30/14, 4/30/2014 6:10:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	0.021	mg/L	0.10	0.018	EPA-200.7	ND	J	1
Total Recoverable Magnesium	ND	mg/L	0.050	0.020	EPA-200.7	ND		1
Total Recoverable Sodium	0.038	mg/L	0.50	0.017	EPA-200.7	0.023	J	1
Total Recoverable Potassium	ND	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	ND	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	0.25	mg/L	0.50	0.067	EPA-300.0	0.20	J	3
Nitrate as N	ND	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	0.34	mg/L	1.0	0.18	EPA-300.0	0.30	J	3
pH	5.60	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	ND	mg/L	6.7	6.7	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	05/06/14	05/07/14	15:12	JRG	PE-OP2	1	BXE0469
2	SM-2320B	05/01/14	05/01/14	20:25	RML	MET-1	1	BXE0150
3	EPA-300.0	04/30/14	05/01/14	07:10	LD1	IC5	1	BXE0021
4	EPA-150.1	05/01/14	05/01/14	20:25	RML	MET-1	1	BXE0150
5	EPA-160.1	05/05/14	05/05/14	13:00	NW1	MANUAL	0.667	BXE0307
6	EPA-353.2	05/01/14	05/01/14	09:56	TDC	KONE-1	1	BXE0122
7	EPA-314.0	05/13/14	05/13/14	17:07	OLH	IC6	1	BXE1141

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409554-02	Client Sample Name: JPL-GW, SB-3-4/30/14, 4/30/2014 6:10:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00087	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Arsenic	3.9	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	1.2		2
Total Recoverable Iron	370	ug/L	50	6.5	EPA-200.7	21		3
Total Recoverable Lead	0.27	ug/L	1.0	0.10	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/30/14	04/30/14 23:15	OLH	KONE-1	1	BXE0089
2	EPA-200.8	05/07/14	05/08/14 20:28	EAR	PE-EL2	1	BXE0600
3	EPA-200.7	05/06/14	05/07/14 15:12	JRG	PE-OP2	1	BXE0469

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Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409554-03	Client Sample Name: JPL-GW, EB-8-4/30/14, 4/30/2014 6:15:00AM, 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	V11	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: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409554-03	Client Sample Name: JPL-GW, EB-8-4/30/14, 4/30/2014 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: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409554-03	Client Sample Name: JPL-GW, EB-8-4/30/14, 4/30/2014 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		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)	113	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	05/02/14	05/02/14 13:47	MGC	MS-V5	1	BXE0192

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409554-03	Client Sample Name: JPL-GW, EB-8-4/30/14, 4/30/2014 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	05/02/14	05/02/14 13:47	MGC	MS-V5	1	BXE0192

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Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409554-03		Client Sample Name: JPL-GW, EB-8-4/30/14, 4/30/2014 6:15:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	0.035	mg/L	0.10	0.018	EPA-200.7	ND	J	1
Total Recoverable Magnesium	ND	mg/L	0.050	0.020	EPA-200.7	ND		1
Total Recoverable Sodium	ND	mg/L	0.50	0.017	EPA-200.7	0.023		1
Total Recoverable Potassium	ND	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	ND	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	ND	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	0.20	mg/L	0.50	0.067	EPA-300.0	0.20	J	3
Nitrate as N	ND	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	0.32	mg/L	1.0	0.18	EPA-300.0	0.30	J	3
pH	5.46	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	ND	mg/L	6.7	6.7	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	05/06/14	05/07/14	16:20	JRG	PE-OP2	1	BXE0469
2	SM-2320B	05/01/14	05/01/14	20:36	RML	MET-1	1	BXE0150
3	EPA-300.0	04/30/14	05/01/14	07:23	LD1	IC5	1	BXE0021
4	EPA-150.1	05/01/14	05/01/14	20:36	RML	MET-1	1	BXE0150
5	EPA-160.1	05/05/14	05/05/14	13:00	NW1	MANUAL	0.667	BXE0307
6	EPA-353.2	05/01/14	05/01/14	09:56	TDC	KONE-1	1	BXE0122
7	EPA-314.0	05/13/14	05/13/14	17:21	OLH	IC6	1	BXE1141

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Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409554-03	Client Sample Name: JPL-GW, EB-8-4/30/14, 4/30/2014 6:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00084	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	0.70	ug/L	3.0	0.50	EPA-200.8	1.2	J	2
Total Recoverable Iron	19	ug/L	50	6.5	EPA-200.7	21	J	3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/30/14	04/30/14 23:15	OLH	KONE-1	1	BXE0089
2	EPA-200.8	05/07/14	05/08/14 20:31	EAR	PE-EL2	1	BXE0600
3	EPA-200.7	05/06/14	05/07/14 16:20	JRG	PE-OP2	1	BXE0469

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Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409554-04 Client Sample Name: JPL-GW, MW-23-5, 4/30/2014 6:40:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	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	V11	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: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409554-04	Client Sample Name: JPL-GW, MW-23-5, 4/30/2014 6:40:00AM, 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	0.11	ug/L	0.50	0.098	EPA-524.2	ND	J	1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	0.26	ug/L	0.50	0.068	EPA-524.2	ND	J	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409554-04	Client Sample Name: JPL-GW, MW-23-5, 4/30/2014 6:40:00AM, 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		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)	111	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	05/02/14	05/02/14 14:10	MGC	MS-V5	1	BXE0192

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409554-04	Client Sample Name: JPL-GW, MW-23-5, 4/30/2014 6:40:00AM, 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	05/02/14	05/02/14 14:10	MGC	MS-V5	1	BXE0192

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409554-04		Client Sample Name: JPL-GW, MW-23-5, 4/30/2014 6:40:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	4.3	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	0.29	mg/L	0.050	0.020	EPA-200.7	ND		1
Total Recoverable Sodium	85	mg/L	0.50	0.017	EPA-200.7	0.023		1
Total Recoverable Potassium	1.6	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	120	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	37	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	160	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	9.5	mg/L	0.50	0.067	EPA-300.0	0.20		3
Nitrate as N	ND	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	9.7	mg/L	1.0	0.18	EPA-300.0	0.30		3
pH	9.51	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	230	mg/L	20	20	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	05/06/14	05/07/14	16:22	JRG	PE-OP2	1	BXE0469
2	SM-2320B	05/01/14	05/01/14	20:41	RML	MET-1	1	BXE0150
3	EPA-300.0	04/30/14	05/01/14	08:30	LD1	IC5	1	BXE0021
4	EPA-150.1	05/01/14	05/01/14	20:41	RML	MET-1	1	BXE0150
5	EPA-160.1	05/05/14	05/05/14	13:00	NW1	MANUAL	2	BXE0307
6	EPA-353.2	05/01/14	05/01/14	09:56	TDC	KONE-1	1	BXE0122
7	EPA-314.0	05/13/14	05/13/14	17:35	OLH	IC6	1	BXE1141

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409554-04	Client Sample Name: JPL-GW, MW-23-5, 4/30/2014 6:40:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00079	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	0.56	ug/L	3.0	0.50	EPA-200.8	1.2	J	2
Total Recoverable Iron	100	ug/L	50	6.5	EPA-200.7	21		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/30/14	04/30/14 23:15	OLH	KONE-1	1	BXE0089
2	EPA-200.8	05/07/14	05/08/14 20:34	EAR	PE-EL2	1	BXE0600
3	EPA-200.7	05/06/14	05/07/14 16:22	JRG	PE-OP2	1	BXE0469

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409554-05	Client Sample Name: JPL-GW, MW-23-4, 4/30/2014 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	V11	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: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409554-05	Client Sample Name: JPL-GW, MW-23-4, 4/30/2014 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
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: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409554-05	Client Sample Name: JPL-GW, MW-23-4, 4/30/2014 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		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)	101	%	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	05/02/14	05/02/14 14:32	MGC	MS-V5	1	BXE0192

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409554-05	Client Sample Name: JPL-GW, MW-23-4, 4/30/2014 7:20:00AM, 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	05/02/14	05/02/14 14:32	MGC	MS-V5	1	BXE0192

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409554-05		Client Sample Name: JPL-GW, MW-23-4, 4/30/2014 7:20:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	33	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	12	mg/L	0.050	0.020	EPA-200.7	ND		1
Total Recoverable Sodium	27	mg/L	0.50	0.017	EPA-200.7	0.023		1
Total Recoverable Potassium	1.8	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	180	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	140	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	11	mg/L	0.50	0.067	EPA-300.0	0.21		3
Nitrate as N	3.4	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	9.3	mg/L	1.0	0.18	EPA-300.0	0.31		3
pH	8.25	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	230	mg/L	20	20	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	05/06/14	05/07/14	16:25	JRG	PE-OP2	1	BXE0469
2	SM-2320B	05/01/14	05/01/14	20:47	RML	MET-1	1	BXE0150
3	EPA-300.0	05/01/14	05/01/14	08:44	LD1	IC5	1	BXE0022
4	EPA-150.1	05/01/14	05/01/14	20:47	RML	MET-1	1	BXE0150
5	EPA-160.1	05/05/14	05/05/14	13:00	NW1	MANUAL	2	BXE0307
6	EPA-353.2	05/01/14	05/01/14	09:56	TDC	KONE-1	1	BXE0122
7	EPA-314.0	05/13/14	05/13/14	17:49	OLH	IC6	1	BXE1141

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409554-05	Client Sample Name: JPL-GW, MW-23-4, 4/30/2014 7:20:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0036	mg/L	0.0020	0.00070	EPA-7196	0.00088		1
Total Recoverable Arsenic	1.3	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	3.1	ug/L	3.0	0.50	EPA-200.8	1.2		2
Total Recoverable Iron	47	ug/L	50	6.5	EPA-200.7	21	J	3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/30/14	04/30/14 23:15	OLH	KONE-1	1	BXE0091
2	EPA-200.8	05/07/14	05/08/14 20:37	EAR	PE-EL2	1	BXE0600
3	EPA-200.7	05/06/14	05/07/14 16:25	JRG	PE-OP2	1	BXE0469

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409554-06	Client Sample Name: JPL-GW, MW-23-3, 4/30/2014 7:50:00AM, 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	V11	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: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409554-06	Client Sample Name: JPL-GW, MW-23-3, 4/30/2014 7:50:00AM, 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: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409554-06	Client Sample Name: JPL-GW, MW-23-3, 4/30/2014 7:50:00AM, 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		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)	116	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.0	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.6	%	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	05/02/14	05/02/14 14:55	MGC	MS-V5	1	BXE0192

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409554-06	Client Sample Name: JPL-GW, MW-23-3, 4/30/2014 7:50:00AM, 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	05/02/14	05/02/14 14:55	MGC	MS-V5	1	BXE0192

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409554-06		Client Sample Name: JPL-GW, MW-23-3, 4/30/2014 7:50:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	47	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	16	mg/L	0.050	0.020	EPA-200.7	ND		1
Total Recoverable Sodium	29	mg/L	0.50	0.017	EPA-200.7	0.023		1
Total Recoverable Potassium	1.9	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	160	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	140	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	36	mg/L	0.50	0.067	EPA-300.0	0.21		3
Nitrate as N	9.5	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	25	mg/L	1.0	0.18	EPA-300.0	0.31		3
pH	7.96	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	310	mg/L	20	20	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	3.0	ug/L	4.0	0.45	EPA-314.0	ND	J	7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	05/06/14	05/07/14	16:27	JRG	PE-OP2	1	BXE0469
2	SM-2320B	05/01/14	05/01/14	20:53	RML	MET-1	1	BXE0150
3	EPA-300.0	05/01/14	05/01/14	08:57	LD1	IC5	1	BXE0022
4	EPA-150.1	05/01/14	05/01/14	20:53	RML	MET-1	1	BXE0150
5	EPA-160.1	05/05/14	05/05/14	13:00	NW1	MANUAL	2	BXE0307
6	EPA-353.2	05/01/14	05/01/14	09:56	TDC	KONE-1	1	BXE0122
7	EPA-314.0	05/13/14	05/13/14	18:30	OLH	IC6	1	BXE1141

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409554-06	Client Sample Name: JPL-GW, MW-23-3, 4/30/2014 7:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0038	mg/L	0.0020	0.00070	EPA-7196	0.00088		1
Total Recoverable Arsenic	1.0	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	3.1	ug/L	3.0	0.50	EPA-200.8	1.2		2
Total Recoverable Iron	57	ug/L	50	6.5	EPA-200.7	21		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/30/14	04/30/14 23:21	OLH	KONE-1	1	BXE0091
2	EPA-200.8	05/07/14	05/08/14 20:41	EAR	PE-EL2	1	BXE0600
3	EPA-200.7	05/06/14	05/07/14 16:27	JRG	PE-OP2	1	BXE0469

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409554-07 **Client Sample Name:** JPL-GW, MW-23-2, 4/30/2014 8:20:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	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	0.50	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	V11	1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.17	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409554-07	Client Sample Name: JPL-GW, MW-23-2, 4/30/2014 8:20:00AM, 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	0.41	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	1.1	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409554-07	Client Sample Name: JPL-GW, MW-23-2, 4/30/2014 8:20:00AM, 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		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)	118	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.0	%	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	05/02/14	05/02/14 15:18	MGC	MS-V5	1	BXE0192

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409554-07	Client Sample Name: JPL-GW, MW-23-2, 4/30/2014 8:20:00AM, 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	05/02/14	05/02/14 15:18	MGC	MS-V5	1	BXE0192

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409554-07	Client Sample Name: JPL-GW, MW-23-2, 4/30/2014 8:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	130	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	48	mg/L	0.050	0.020	EPA-200.7	ND		1
Total Recoverable Sodium	37	mg/L	0.50	0.017	EPA-200.7	0.023		1
Total Recoverable Potassium	2.8	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	270	mg/L	10	10	SM-2320B	ND		2
Carbonate	ND	mg/L	5.0	5.0	SM-2320B	ND		2
Total Alkalinity as CaCO3	220	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	120	mg/L	0.50	0.067	EPA-300.0	0.21		3
Nitrate as N	12	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	170	mg/L	1.0	0.18	EPA-300.0	0.31		3
pH	7.73	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	740	mg/L	50	50	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	4.7	ug/L	4.0	0.45	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	05/06/14	05/07/14	16:30	JRG	PE-OP2	1	BXE0469
2	SM-2320B	05/01/14	05/01/14	20:59	RML	MET-1	2	BXE0150
3	EPA-300.0	05/01/14	05/01/14	14:45	LD1	IC5	1	BXE0022
4	EPA-150.1	05/01/14	05/01/14	20:59	RML	MET-1	1	BXE0150
5	EPA-160.1	05/05/14	05/05/14	13:00	NW1	MANUAL	5	BXE0307
6	EPA-353.2	05/01/14	05/01/14	10:01	TDC	KONE-1	1	BXE0122
7	EPA-314.0	05/13/14	05/13/14	18:44	OLH	IC6	1	BXE1141

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409554-07	Client Sample Name: JPL-GW, MW-23-2, 4/30/2014 8:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0020	mg/L	0.0020	0.00070	EPA-7196	0.00088		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	0.59	ug/L	3.0	0.50	EPA-200.8	1.2	J	2
Total Recoverable Iron	40	ug/L	50	6.5	EPA-200.7	21	J	3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/30/14	04/30/14 23:21	OLH	KONE-1	1	BXE0091
2	EPA-200.8	05/07/14	05/08/14 20:44	EAR	PE-EL2	1	BXE0600
3	EPA-200.7	05/06/14	05/07/14 16:30	JRG	PE-OP2	1	BXE0469

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3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409554-08	Client Sample Name: JPL-GW, MW-23-1, 4/30/2014 8:50:00AM, 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	0.40	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND	V11	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: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409554-08	Client Sample Name: JPL-GW, MW-23-1, 4/30/2014 8:50:00AM, 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	0.23	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	2.1	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409554-08	Client Sample Name: JPL-GW, MW-23-1, 4/30/2014 8:50:00AM, 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		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)	114	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.7	%	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	05/02/14	05/02/14 15:41	MGC	MS-V5	1	BXE0192

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409554-08	Client Sample Name: JPL-GW, MW-23-1, 4/30/2014 8:50:00AM, 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	05/02/14	05/02/14 15:41	MGC	MS-V5	1	BXE0192

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409554-08		Client Sample Name: JPL-GW, MW-23-1, 4/30/2014 8:50:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	150	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	53	mg/L	0.050	0.020	EPA-200.7	ND		1
Total Recoverable Sodium	37	mg/L	0.50	0.017	EPA-200.7	0.023		1
Total Recoverable Potassium	2.9	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	260	mg/L	10	10	SM-2320B	ND		2
Carbonate	ND	mg/L	5.0	5.0	SM-2320B	ND		2
Total Alkalinity as CaCO3	210	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	130	mg/L	0.50	0.067	EPA-300.0	0.21		3
Nitrate as N	13	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	200	mg/L	1.0	0.18	EPA-300.0	0.31		3
pH	7.50	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	750	mg/L	50	50	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	2.6	ug/L	4.0	0.45	EPA-314.0	ND	J	7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	05/06/14	05/07/14	16:32	JRG	PE-OP2	1	BXE0469
2	SM-2320B	05/01/14	05/01/14	21:04	RML	MET-1	2	BXE0150
3	EPA-300.0	05/01/14	05/01/14	14:59	LD1	IC5	1	BXE0022
4	EPA-150.1	05/01/14	05/01/14	21:04	RML	MET-1	1	BXE0150
5	EPA-160.1	05/05/14	05/05/14	13:00	NW1	MANUAL	5	BXE0307
6	EPA-353.2	05/01/14	05/01/14	10:01	TDC	KONE-1	1	BXE0122
7	EPA-314.0	05/13/14	05/13/14	18:58	OLH	IC6	1	BXE1141

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409554-08	Client Sample Name: JPL-GW, MW-23-1, 4/30/2014 8:50:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0014	mg/L	0.0020	0.00070	EPA-7196	0.00088	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	0.96	ug/L	3.0	0.50	EPA-200.8	1.2	J	2
Total Recoverable Iron	760	ug/L	50	6.5	EPA-200.7	21		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/30/14	04/30/14 23:21	OLH	KONE-1	1	BXE0091
2	EPA-200.8	05/07/14	05/08/14 20:47	EAR	PE-EL2	1	BXE0600
3	EPA-200.7	05/06/14	05/07/14 16:32	JRG	PE-OP2	1	BXE0469

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409554-09	Client Sample Name: JPL-GW, MW-4-5, 4/30/2014 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	V11	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: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409554-09	Client Sample Name: JPL-GW, MW-4-5, 4/30/2014 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
Styrene	0.11	ug/L	0.50	0.068	EPA-524.2	ND	J	1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409554-09	Client Sample Name: JPL-GW, MW-4-5, 4/30/2014 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		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)	115	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	88.4	%	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	05/02/14	05/02/14 16:03	MGC	MS-V5	1	BXE0192

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3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409554-09	Client Sample Name: JPL-GW, MW-4-5, 4/30/2014 9:40:00AM, 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	05/02/14	05/02/14 16:03	MGC	MS-V5	1	BXE0192

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Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409554-09	Client Sample Name: JPL-GW, MW-4-5, 4/30/2014 9:40:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	37	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	14	mg/L	0.050	0.020	EPA-200.7	ND		1
Total Recoverable Sodium	36	mg/L	0.50	0.017	EPA-200.7	0.023		1
Total Recoverable Potassium	1.9	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	180	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	150	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	29	mg/L	0.50	0.067	EPA-300.0	0.21		3
Nitrate as N	2.1	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	21	mg/L	1.0	0.18	EPA-300.0	0.31		3
pH	8.12	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	270	mg/L	20	20	EPA-160.1	ND		5
Nitrite as N	0.039	mg/L	0.050	0.012	EPA-353.2	ND	J	6
Perchlorate	2.0	ug/L	4.0	0.45	EPA-314.0	ND	J	7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	05/06/14	05/07/14	16:35	JRG	PE-OP2	1	BXE0469
2	SM-2320B	05/01/14	05/01/14	21:10	RML	MET-1	1	BXE0150
3	EPA-300.0	05/01/14	05/01/14	09:37	LD1	IC5	1	BXE0022
4	EPA-150.1	05/01/14	05/01/14	21:10	RML	MET-1	1	BXE0150
5	EPA-160.1	05/05/14	05/05/14	13:00	NW1	MANUAL	2	BXE0307
6	EPA-353.2	05/01/14	05/01/14	10:01	TDC	KONE-1	1	BXE0122
7	EPA-314.0	05/13/14	05/13/14	19:12	OLH	IC6	1	BXE1141

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3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409554-09	Client Sample Name: JPL-GW, MW-4-5, 4/30/2014 9:40:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00083	mg/L	0.0020	0.00070	EPA-7196	0.00088	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	1.2		2
Total Recoverable Iron	85	ug/L	50	6.5	EPA-200.7	21		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/30/14	04/30/14 23:21	OLH	KONE-1	1	BXE0091
2	EPA-200.8	05/07/14	05/08/14 20:50	EAR	PE-EL2	1	BXE0600
3	EPA-200.7	05/06/14	05/07/14 16:35	JRG	PE-OP2	1	BXE0469

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3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409554-10	Client Sample Name: JPL-GW, MW-4-4, 4/30/2014 10:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409554-10	Client Sample Name: JPL-GW, MW-4-4, 4/30/2014 10:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	0.13	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409554-10	Client Sample Name: JPL-GW, MW-4-4, 4/30/2014 10:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	106	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.5	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	87.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	05/02/14	05/02/14 10:46	MGC	MS-V5	1	BXE0192

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409554-10	Client Sample Name: JPL-GW, MW-4-4, 4/30/2014 10:20:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	05/02/14	05/02/14 10:46	MGC	MS-V5	1	BXE0192

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409554-10		Client Sample Name: JPL-GW, MW-4-4, 4/30/2014 10:20:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	42	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	14	mg/L	0.050	0.020	EPA-200.7	ND		1
Total Recoverable Sodium	37	mg/L	0.50	0.017	EPA-200.7	0.023		1
Total Recoverable Potassium	1.9	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	190	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	150	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	30	mg/L	0.50	0.067	EPA-300.0	0.21		3
Nitrate as N	5.1	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	22	mg/L	1.0	0.18	EPA-300.0	0.31		3
pH	7.97	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	290	mg/L	20	20	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	2.0	ug/L	4.0	0.45	EPA-314.0	ND	J	7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	05/06/14	05/07/14	14:57	JRG	PE-OP2	1	BXE0469
2	SM-2320B	05/01/14	05/01/14	21:15	RML	MET-1	1	BXE0150
3	EPA-300.0	05/01/14	05/01/14	09:51	LD1	IC5	1	BXE0022
4	EPA-150.1	05/01/14	05/01/14	21:15	RML	MET-1	1	BXE0150
5	EPA-160.1	05/05/14	05/05/14	13:00	NW1	MANUAL	2	BXE0307
6	EPA-353.2	05/01/14	05/01/14	10:01	TDC	KONE-1	1	BXE0126
7	EPA-314.0	05/13/14	05/13/14	19:26	OLH	IC6	1	BXE1141

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409554-10	Client Sample Name: JPL-GW, MW-4-4, 4/30/2014 10:20:00AM, 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	0.00088	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	2.0	ug/L	3.0	0.50	EPA-200.8	1.2	J	2
Total Recoverable Iron	220	ug/L	50	6.5	EPA-200.7	21		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/30/14	04/30/14 23:15	OLH	KONE-1	1	BXE0091
2	EPA-200.8	05/07/14	05/08/14 20:02	EAR	PE-EL2	1	BXE0600
3	EPA-200.7	05/06/14	05/07/14 14:57	JRG	PE-OP2	1	BXE0469

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409554-11	Client Sample Name: JPL-GW, MW-4-3, 4/30/2014 10:55:00AM, 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
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	V11	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: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409554-11	Client Sample Name: JPL-GW, MW-4-3, 4/30/2014 10:55:00AM, 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
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: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409554-11	Client Sample Name: JPL-GW, MW-4-3, 4/30/2014 10:55:00AM, 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		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)	102	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	86.4	%	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	05/02/14	05/02/14 16:26	MGC	MS-V5	1	BXE0192

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409554-11	Client Sample Name: JPL-GW, MW-4-3, 4/30/2014 10:55:00AM, 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	05/02/14	05/02/14 16:26	MGC	MS-V5	1	BXE0192

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409554-11		Client Sample Name: JPL-GW, MW-4-3, 4/30/2014 10:55:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	45	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	14	mg/L	0.050	0.020	EPA-200.7	ND		1
Total Recoverable Sodium	36	mg/L	0.50	0.017	EPA-200.7	0.023		1
Total Recoverable Potassium	1.9	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	190	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	150	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	29	mg/L	0.50	0.067	EPA-300.0	0.21		3
Nitrate as N	6.2	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	22	mg/L	1.0	0.18	EPA-300.0	0.31		3
pH	8.01	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	310	mg/L	20	20	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	2.6	ug/L	4.0	0.45	EPA-314.0	ND	J	7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-200.7	05/06/14	05/07/14	16:37	JRG	PE-OP2	1	BXE0469	
2	SM-2320B	05/01/14	05/01/14	21:21	RML	MET-1	1	BXE0150	
3	EPA-300.0	05/01/14	05/01/14	11:11	LD1	IC5	1	BXE0022	
4	EPA-150.1	05/01/14	05/01/14	21:21	RML	MET-1	1	BXE0150	
5	EPA-160.1	05/05/14	05/05/14	13:00	NW1	MANUAL	2	BXE0307	
6	EPA-353.2	05/01/14	05/01/14	10:01	TDC	KONE-1	1	BXE0122	
7	EPA-314.0	05/13/14	05/13/14	20:21	OLH	IC6	1	BXE1149	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409554-11	Client Sample Name: JPL-GW, MW-4-3, 4/30/2014 10:55:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0016	mg/L	0.0020	0.00070	EPA-7196	0.00088	J	1
Total Recoverable Arsenic	1.4	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	2.3	ug/L	3.0	0.50	EPA-200.8	1.2	J	2
Total Recoverable Iron	430	ug/L	50	6.5	EPA-200.7	21		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/30/14	04/30/14 23:21	OLH	KONE-1	1	BXE0091
2	EPA-200.8	05/07/14	05/08/14 20:53	EAR	PE-EL2	1	BXE0600
3	EPA-200.7	05/06/14	05/07/14 16:37	JRG	PE-OP2	1	BXE0469

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Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409554-12	Client Sample Name: JPL-GW, MW-4-2, 4/30/2014 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	0.37	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	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	0.67	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	0.22	ug/L	0.50	0.13	EPA-524.2	ND	J,V11	1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.15	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409554-12	Client Sample Name: JPL-GW, MW-4-2, 4/30/2014 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	0.45	ug/L	0.50	0.13	EPA-524.2	ND	J	1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.76	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: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409554-12	Client Sample Name: JPL-GW, MW-4-2, 4/30/2014 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	112	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	103	%	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	05/02/14	05/02/14 16:49	MGC	MS-V5	1	BXE0192

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Tidewater Inc.
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Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409554-12	Client Sample Name: JPL-GW, MW-4-2, 4/30/2014 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	05/02/14	05/02/14 16:49	MGC	MS-V5	1	BXE0192

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Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

BCL Sample ID: 1409554-12	Client Sample Name: JPL-GW, MW-4-2, 4/30/2014 11:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Acenaphthylene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Anthracene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Benzo[a]anthracene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Benzo[b]fluoranthene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Benzo[k]fluoranthene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Benzo[a]pyrene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Benzo[g,h,i]perylene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Chrysene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Fluoranthene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Fluorene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Naphthalene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Phenanthrene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Pyrene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Nitrobenzene-d5 (Surrogate)	102	%	42 - 130 (LCL - UCL)		EPA-8270C-SIM			1
2-Fluorobiphenyl (Surrogate)	94.8	%	50 - 116 (LCL - UCL)		EPA-8270C-SIM			1
p-Terphenyl-d14 (Surrogate)	93.8	%	43 - 134 (LCL - UCL)		EPA-8270C-SIM			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C-SIM	05/07/14	05/15/14 11:44	MK1	MS-B7	0.990	BXE0883

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409554-12		Client Sample Name: JPL-GW, MW-4-2, 4/30/2014 11:30:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	130	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	43	mg/L	0.050	0.020	EPA-200.7	0.036		1
Total Recoverable Sodium	34	mg/L	0.50	0.017	EPA-200.7	ND		1
Total Recoverable Potassium	3.0	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	260	mg/L	10	10	SM-2320B	ND		2
Carbonate	ND	mg/L	5.0	5.0	SM-2320B	ND		2
Total Alkalinity as CaCO3	220	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	120	mg/L	0.50	0.067	EPA-300.0	0.21		3
Nitrate as N	11	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	140	mg/L	1.0	0.18	EPA-300.0	0.31		3
pH	7.28	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	710	mg/L	33	33	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	64	ug/L	20	2.2	EPA-314.0	ND	A01	7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	05/07/14	05/07/14	18:07	JRG	PE-OP2	1	BXE0591
2	SM-2320B	05/02/14	05/02/14	12:17	RML	MET-1	2	BXE0201
3	EPA-300.0	05/01/14	05/01/14	11:24	LD1	IC5	1	BXE0022
4	EPA-150.1	05/02/14	05/02/14	12:17	RML	MET-1	1	BXE0201
5	EPA-160.1	05/05/14	05/05/14	13:00	NW1	MANUAL	3.333	BXE0308
6	EPA-353.2	05/01/14	05/01/14	10:03	TDC	KONE-1	1	BXE0122
7	EPA-314.0	05/13/14	05/14/14	11:09	LD1	IC6	5	BXE1149

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3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409554-12	Client Sample Name: JPL-GW, MW-4-2, 4/30/2014 11:30:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00070	mg/L	0.0020	0.00070	EPA-7196	0.00088	J	1
Total Recoverable Arsenic	1.2	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	16	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	3300	ug/L	50	6.5	EPA-200.7	38		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/30/14	04/30/14 23:21	OLH	KONE-1	1	BXE0091
2	EPA-200.8	05/07/14	05/08/14 22:01	EAR	PE-EL2	1	BXE0606
3	EPA-200.7	05/07/14	05/07/14 18:07	JRG	PE-OP2	1	BXE0591

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Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409554-13	Client Sample Name: JPL-GW, MW-4-1, 4/30/2014 1:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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	V11	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: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409554-13	Client Sample Name: JPL-GW, MW-4-1, 4/30/2014 1:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409554-13	Client Sample Name: JPL-GW, MW-4-1, 4/30/2014 1:20:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND		1
Propionitrile	ND	ug/L	20	4.2	EPA-524.2	ND		1
Tetrahydrofuran	ND	ug/L	20	5.2	EPA-524.2	ND		1
p- & m-Xylenes	ND	ug/L	0.50	0.28	EPA-524.2	ND		1
o-Xylene	ND	ug/L	0.50	0.082	EPA-524.2	ND		1
1,2-Dichloroethane-d4 (Surrogate)	111	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	05/02/14	05/02/14 17:11	MGC	MS-V5	1	BXE0192

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Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409554-13	Client Sample Name: JPL-GW, MW-4-1, 4/30/2014 1:20:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	05/02/14	05/02/14 17:11	MGC	MS-V5	1	BXE0192

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Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409554-13		Client Sample Name: JPL-GW, MW-4-1, 4/30/2014 1:20:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	60	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	20	mg/L	0.050	0.020	EPA-200.7	0.036		1
Total Recoverable Sodium	21	mg/L	0.50	0.017	EPA-200.7	ND		1
Total Recoverable Potassium	3.0	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	270	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	220	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	11	mg/L	0.50	0.067	EPA-300.0	0.21		3
Nitrate as N	1.1	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	30	mg/L	1.0	0.18	EPA-300.0	0.31		3
pH	7.44	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	320	mg/L	20	20	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	05/07/14	05/07/14	18:09	JRG	PE-OP2	1	BXE0591
2	SM-2320B	05/02/14	05/02/14	12:28	RML	MET-1	1	BXE0201
3	EPA-300.0	05/01/14	05/01/14	11:38	LD1	IC5	1	BXE0022
4	EPA-150.1	05/02/14	05/02/14	12:28	RML	MET-1	1	BXE0201
5	EPA-160.1	05/05/14	05/05/14	13:00	NW1	MANUAL	2	BXE0308
6	EPA-353.2	05/01/14	05/01/14	10:03	TDC	KONE-1	1	BXE0126
7	EPA-314.0	05/13/14	05/14/14	01:37	LD1	IC6	1	BXE1149

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409554-13	Client Sample Name: JPL-GW, MW-4-1, 4/30/2014 1:20:00PM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	0.00088		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	460	ug/L	50	6.5	EPA-200.7	38		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	04/30/14	04/30/14 23:21	OLH	KONE-1	1	BXE0091
2	EPA-200.8	05/07/14	05/08/14 22:04	EAR	PE-EL2	1	BXE0606
3	EPA-200.7	05/07/14	05/07/14 18:09	JRG	PE-OP2	1	BXE0591

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0192						
Benzene	BXE0192-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXE0192-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXE0192-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXE0192-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXE0192-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXE0192-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXE0192-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXE0192-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXE0192-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXE0192-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXE0192-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXE0192-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXE0192-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXE0192-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXE0192-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXE0192-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BXE0192-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXE0192-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXE0192-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXE0192-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXE0192-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXE0192-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXE0192-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXE0192-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXE0192-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXE0192-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXE0192-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXE0192-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXE0192-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXE0192-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXE0192-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXE0192-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXE0192-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXE0192-BLK1	ND	ug/L	0.50	0.14	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0192						
trans-1,3-Dichloropropene	BXE0192-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXE0192-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXE0192-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXE0192-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXE0192-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXE0192-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXE0192-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXE0192-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXE0192-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXE0192-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXE0192-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BXE0192-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BXE0192-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXE0192-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXE0192-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXE0192-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BXE0192-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXE0192-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXE0192-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXE0192-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXE0192-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXE0192-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXE0192-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXE0192-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXE0192-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXE0192-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXE0192-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXE0192-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXE0192-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXE0192-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXE0192-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXE0192-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXE0192-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXE0192-BLK1	ND	ug/L	4.0	0.97	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0192						
Ethyl t-butyl ether	BXE0192-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXE0192-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXE0192-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXE0192-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXE0192-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXE0192-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXE0192-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXE0192-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXE0192-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXE0192-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXE0192-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXE0192-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXE0192-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BXE0192-BLK1	113	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BXE0192-BLK1	102	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BXE0192-BLK1	88.9	%	80 - 120 (LCL - UCL)		

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3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXE0192										
Benzene	BXE0192-BS1	LCS	21.430	25.000	ug/L	85.7		70 - 130		
Bromodichloromethane	BXE0192-BS1	LCS	31.020	25.000	ug/L	124		70 - 130		
Chlorobenzene	BXE0192-BS1	LCS	25.320	25.000	ug/L	101		70 - 130		
Chloroethane	BXE0192-BS1	LCS	23.510	25.000	ug/L	94.0		70 - 130		
1,4-Dichlorobenzene	BXE0192-BS1	LCS	29.340	25.000	ug/L	117		70 - 130		
1,1-Dichloroethane	BXE0192-BS1	LCS	23.180	25.000	ug/L	92.7		70 - 130		
1,1-Dichloroethene	BXE0192-BS1	LCS	25.870	25.000	ug/L	103		70 - 130		
Toluene	BXE0192-BS1	LCS	24.290	25.000	ug/L	97.2		70 - 130		
Trichloroethene	BXE0192-BS1	LCS	26.430	25.000	ug/L	106		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXE0192-BS1	LCS	10.900	10.000	ug/L	109		75 - 125		
Toluene-d8 (Surrogate)	BXE0192-BS1	LCS	9.9000	10.000	ug/L	99.0		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXE0192-BS1	LCS	11.760	10.000	ug/L	118		80 - 120		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXE0192		Used client sample: Y - Description: MW-4-4, 04/30/2014 10:20								
Benzene	MS	1409554-10	ND	21.530	25.000	ug/L		86.1		70 - 130
	MSD	1409554-10	ND	22.240	25.000	ug/L	3.2	89.0	20	70 - 130
Bromodichloromethane	MS	1409554-10	ND	30.440	25.000	ug/L		122		70 - 130
	MSD	1409554-10	ND	30.100	25.000	ug/L	1.1	120	20	70 - 130
Chlorobenzene	MS	1409554-10	ND	24.990	25.000	ug/L		100		70 - 130
	MSD	1409554-10	ND	25.210	25.000	ug/L	0.9	101	20	70 - 130
Chloroethane	MS	1409554-10	ND	22.950	25.000	ug/L		91.8		70 - 130
	MSD	1409554-10	ND	23.950	25.000	ug/L	4.3	95.8	20	70 - 130
1,4-Dichlorobenzene	MS	1409554-10	ND	28.730	25.000	ug/L		115		70 - 130
	MSD	1409554-10	ND	28.720	25.000	ug/L	0.0	115	20	70 - 130
1,1-Dichloroethane	MS	1409554-10	ND	22.960	25.000	ug/L		91.8		70 - 130
	MSD	1409554-10	ND	23.510	25.000	ug/L	2.4	94.0	20	70 - 130
1,1-Dichloroethene	MS	1409554-10	ND	24.950	25.000	ug/L		99.8		70 - 130
	MSD	1409554-10	ND	25.320	25.000	ug/L	1.5	101	20	70 - 130
Toluene	MS	1409554-10	ND	24.470	25.000	ug/L		97.9		70 - 130
	MSD	1409554-10	ND	24.540	25.000	ug/L	0.3	98.2	20	70 - 130
Trichloroethene	MS	1409554-10	ND	26.590	25.000	ug/L		106		70 - 130
	MSD	1409554-10	ND	26.520	25.000	ug/L	0.3	106	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1409554-10	ND	10.260	10.000	ug/L		103		75 - 125
	MSD	1409554-10	ND	10.460	10.000	ug/L	1.9	105		75 - 125
Toluene-d8 (Surrogate)	MS	1409554-10	ND	9.8700	10.000	ug/L		98.7		80 - 120
	MSD	1409554-10	ND	9.9200	10.000	ug/L	0.5	99.2		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1409554-10	ND	10.780	10.000	ug/L		108		80 - 120
	MSD	1409554-10	ND	11.270	10.000	ug/L	4.4	113		80 - 120

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Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0192						
Chloroacetonitrile	BXE0192-BLK1	0	ug/L			
1-Chlorobutane	BXE0192-BLK1	0	ug/L			
1,1-Dichloropropanone	BXE0192-BLK1	0	ug/L			
Methyl acrylate	BXE0192-BLK1	0	ug/L			
Nitrobenzene	BXE0192-BLK1	0	ug/L			
2-Nitropropane	BXE0192-BLK1	0	ug/L			

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0883						
Acenaphthene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Acenaphthylene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Anthracene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Benzo[a]anthracene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Benzo[b]fluoranthene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Benzo[k]fluoranthene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Benzo[a]pyrene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Benzo[g,h,i]perylene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Chrysene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Dibenzo[a,h]anthracene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Fluoranthene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Fluorene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Indeno[1,2,3-cd]pyrene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Naphthalene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Phenanthrene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Pyrene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Nitrobenzene-d5 (Surrogate)	BXE0883-BLK1	99.7	%	42 - 130 (LCL - UCL)		
2-Fluorobiphenyl (Surrogate)	BXE0883-BLK1	88.9	%	50 - 116 (LCL - UCL)		
p-Terphenyl-d14 (Surrogate)	BXE0883-BLK1	89.1	%	43 - 134 (LCL - UCL)		

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Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXE0883										
Acenaphthene	BXE0883-BS1	LCS	0.93000	1.0000	ug/L	93.0		60 - 110		
Acenaphthylene	BXE0883-BS1	LCS	0.93000	1.0000	ug/L	93.0		56 - 120		
Anthracene	BXE0883-BS1	LCS	0.96000	1.0000	ug/L	96.0		57 - 128		
Benzo[a]anthracene	BXE0883-BS1	LCS	0.96000	1.0000	ug/L	96.0		64 - 130		
Benzo[b]fluoranthene	BXE0883-BS1	LCS	1.1000	1.0000	ug/L	110		50 - 130		
Benzo[k]fluoranthene	BXE0883-BS1	LCS	1.0500	1.0000	ug/L	105		60 - 120		
Benzo[a]pyrene	BXE0883-BS1	LCS	1.0200	1.0000	ug/L	102		60 - 125		
Benzo[g,h,i]perylene	BXE0883-BS1	LCS	0.94000	1.0000	ug/L	94.0		44 - 120		
Chrysene	BXE0883-BS1	LCS	0.94000	1.0000	ug/L	94.0		60 - 110		
Dibenzo[a,h]anthracene	BXE0883-BS1	LCS	0.98000	1.0000	ug/L	98.0		40 - 120		
Fluoranthene	BXE0883-BS1	LCS	0.92000	1.0000	ug/L	92.0		60 - 120		
Fluorene	BXE0883-BS1	LCS	0.95000	1.0000	ug/L	95.0		60 - 120		
Indeno[1,2,3-cd]pyrene	BXE0883-BS1	LCS	1.0100	1.0000	ug/L	101		40 - 130		
Naphthalene	BXE0883-BS1	LCS	0.92000	1.0000	ug/L	92.0		60 - 110		
Phenanthrene	BXE0883-BS1	LCS	0.92000	1.0000	ug/L	92.0		60 - 120		
Pyrene	BXE0883-BS1	LCS	0.85000	1.0000	ug/L	85.0		50 - 125		
Nitrobenzene-d5 (Surrogate)	BXE0883-BS1	LCS	3.8400	4.0000	ug/L	96.0		42 - 130		
2-Fluorobiphenyl (Surrogate)	BXE0883-BS1	LCS	3.5400	4.0000	ug/L	88.5		50 - 116		
p-Terphenyl-d14 (Surrogate)	BXE0883-BS1	LCS	3.4100	4.0000	ug/L	85.2		43 - 134		

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BXE0883		Used client sample: N								
Acenaphthene	MS	1407468-52	ND	0.98000	1.0000	ug/L		98.0	61 - 110	
	MSD	1407468-52	ND	0.85360	1.0000	ug/L	13.8	85.4	30	61 - 110
Acenaphthylene	MS	1407468-52	ND	0.98000	1.0000	ug/L		98.0	60 - 120	
	MSD	1407468-52	ND	0.86330	1.0000	ug/L	12.7	86.3	30	60 - 120
Anthracene	MS	1407468-52	ND	1.0290	1.0000	ug/L		103	61 - 120	
	MSD	1407468-52	ND	0.94090	1.0000	ug/L	8.9	94.1	30	61 - 120
Benzo[a]anthracene	MS	1407468-52	ND	1.0290	1.0000	ug/L		103	56 - 121	
	MSD	1407468-52	ND	0.93120	1.0000	ug/L	10.0	93.1	30	56 - 121
Benzo[b]fluoranthene	MS	1407468-52	ND	1.1662	1.0000	ug/L		117	50 - 130	
	MSD	1407468-52	ND	1.0379	1.0000	ug/L	11.6	104	30	50 - 130
Benzo[k]fluoranthene	MS	1407468-52	ND	1.0878	1.0000	ug/L		109	60 - 120	
	MSD	1407468-52	ND	0.97000	1.0000	ug/L	11.4	97.0	30	60 - 120
Benzo[a]pyrene	MS	1407468-52	ND	1.0780	1.0000	ug/L		108	60 - 120	
	MSD	1407468-52	ND	1.0088	1.0000	ug/L	6.6	101	30	60 - 120
Benzo[g,h,i]perylene	MS	1407468-52	ND	0.99960	1.0000	ug/L		100	45 - 120	
	MSD	1407468-52	ND	0.83420	1.0000	ug/L	18.0	83.4	30	45 - 120
Chrysene	MS	1407468-52	ND	0.98980	1.0000	ug/L		99.0	60 - 110	
	MSD	1407468-52	ND	0.88270	1.0000	ug/L	11.4	88.3	30	60 - 110
Dibenzo[a,h]anthracene	MS	1407468-52	ND	1.0094	1.0000	ug/L		101	40 - 120	
	MSD	1407468-52	ND	0.87300	1.0000	ug/L	14.5	87.3	30	40 - 120
Fluoranthene	MS	1407468-52	ND	0.98000	1.0000	ug/L		98.0	60 - 120	
	MSD	1407468-52	ND	0.85360	1.0000	ug/L	13.8	85.4	30	60 - 120
Fluorene	MS	1407468-52	ND	1.0094	1.0000	ug/L		101	60 - 120	
	MSD	1407468-52	ND	0.87300	1.0000	ug/L	14.5	87.3	30	60 - 120
Indeno[1,2,3-cd]pyrene	MS	1407468-52	ND	1.0780	1.0000	ug/L		108	40 - 130	
	MSD	1407468-52	ND	0.90210	1.0000	ug/L	17.8	90.2	30	40 - 130
Naphthalene	MS	1407468-52	ND	0.98980	1.0000	ug/L		99.0	60 - 110	
	MSD	1407468-52	ND	0.83420	1.0000	ug/L	17.1	83.4	30	60 - 110
Phenanthrene	MS	1407468-52	ND	0.96040	1.0000	ug/L		96.0	60 - 120	
	MSD	1407468-52	ND	0.84390	1.0000	ug/L	12.9	84.4	30	60 - 120
Pyrene	MS	1407468-52	ND	0.89180	1.0000	ug/L		89.2	50 - 125	
	MSD	1407468-52	ND	0.83420	1.0000	ug/L	6.7	83.4	30	50 - 125
Nitrobenzene-d5 (Surrogate)	MS	1407468-52	ND	4.0474	4.0000	ug/L		101	42 - 130	
	MSD	1407468-52	ND	3.4629	4.0000	ug/L	15.6	86.6		42 - 130
2-Fluorobiphenyl (Surrogate)	MS	1407468-52	ND	3.7142	4.0000	ug/L		92.9	50 - 116	
	MSD	1407468-52	ND	3.2398	4.0000	ug/L	13.6	81.0		50 - 116

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: BXE0883		Used client sample: N									
p-Terphenyl-d14 (Surrogate)	MS	1407468-52	ND	3.6260	4.0000	ug/L		90.6		43 - 134	
	MSD	1407468-52	ND	3.3174	4.0000	ug/L	8.9	82.9		43 - 134	

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3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0021						
Chloride	BXE0021-BLK1	0.19900	mg/L	0.50	0.067	J
Nitrate as N	BXE0021-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXE0021-BLK1	0.30400	mg/L	1.0	0.18	J
QC Batch ID: BXE0022						
Chloride	BXE0022-BLK1	0.21200	mg/L	0.50	0.067	J
Nitrate as N	BXE0022-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXE0022-BLK1	0.30800	mg/L	1.0	0.18	J
QC Batch ID: BXE0122						
Nitrite as N	BXE0122-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXE0126						
Nitrite as N	BXE0126-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXE0150						
Bicarbonate	BXE0150-BLK1	ND	mg/L	5.0	5.0	
Carbonate	BXE0150-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	BXE0150-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXE0201						
Bicarbonate	BXE0201-BLK1	ND	mg/L	5.0	5.0	
Carbonate	BXE0201-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	BXE0201-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXE0307						
Total Dissolved Solids @ 180 C	BXE0307-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXE0308						
Total Dissolved Solids @ 180 C	BXE0308-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXE0469						
Total Recoverable Calcium	BXE0469-BLK1	ND	mg/L	0.10	0.014	
Total Recoverable Magnesium	BXE0469-BLK1	ND	mg/L	0.050	0.019	
Total Recoverable Sodium	BXE0469-BLK1	0.022611	mg/L	0.50	0.017	J
Total Recoverable Potassium	BXE0469-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXE0591						
Total Recoverable Calcium	BXE0591-BLK1	ND	mg/L	0.10	0.014	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0591						
Total Recoverable Magnesium	BXE0591-BLK1	0.036262	mg/L	0.050	0.019	J
Total Recoverable Sodium	BXE0591-BLK1	ND	mg/L	0.50	0.017	
Total Recoverable Potassium	BXE0591-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXE1141						
Perchlorate	BXE1141-BLK1	ND	ug/L	4.0	0.45	
QC Batch ID: BXE1149						
Perchlorate	BXE1149-BLK1	ND	ug/L	4.0	0.45	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXE0021										
Chloride	BXE0021-BS1	LCS	52.657	50.000	mg/L	105		90 - 110		
Nitrate as N	BXE0021-BS1	LCS	5.3210	5.0000	mg/L	106		90 - 110		
Sulfate	BXE0021-BS1	LCS	105.36	100.00	mg/L	105		90 - 110		
QC Batch ID: BXE0022										
Chloride	BXE0022-BS1	LCS	53.141	50.000	mg/L	106		90 - 110		
Nitrate as N	BXE0022-BS1	LCS	5.3540	5.0000	mg/L	107		90 - 110		
Sulfate	BXE0022-BS1	LCS	106.40	100.00	mg/L	106		90 - 110		
QC Batch ID: BXE0122										
Nitrite as N	BXE0122-BS1	LCS	0.51014	0.50000	mg/L	102		90 - 110		
QC Batch ID: BXE0126										
Nitrite as N	BXE0126-BS1	LCS	0.51244	0.50000	mg/L	102		90 - 110		
QC Batch ID: BXE0150										
Total Alkalinity as CaCO3	BXE0150-BS3	LCS	100.26	100.00	mg/L	100		90 - 110		
pH	BXE0150-BS2	LCS	7.0200	7.0000	pH Units	100		95 - 105		
QC Batch ID: BXE0201										
Total Alkalinity as CaCO3	BXE0201-BS3	LCS	98.890	100.00	mg/L	98.9		90 - 110		
pH	BXE0201-BS2	LCS	7.0300	7.0000	pH Units	100		95 - 105		
QC Batch ID: BXE0307										
Total Dissolved Solids @ 180 C	BXE0307-BS1	LCS	575.00	586.00	mg/L	98.1		90 - 110		
QC Batch ID: BXE0308										
Total Dissolved Solids @ 180 C	BXE0308-BS1	LCS	585.00	586.00	mg/L	99.8		90 - 110		
QC Batch ID: BXE0469										
Total Recoverable Calcium	BXE0469-BS1	LCS	10.204	10.000	mg/L	102		85 - 115		
Total Recoverable Magnesium	BXE0469-BS1	LCS	10.658	10.000	mg/L	107		85 - 115		
Total Recoverable Sodium	BXE0469-BS1	LCS	10.494	10.000	mg/L	105		85 - 115		
Total Recoverable Potassium	BXE0469-BS1	LCS	10.240	10.000	mg/L	102		85 - 115		
QC Batch ID: BXE0591										
Total Recoverable Calcium	BXE0591-BS1	LCS	9.7780	10.000	mg/L	97.8		85 - 115		
Total Recoverable Magnesium	BXE0591-BS1	LCS	10.045	10.000	mg/L	100		85 - 115		
Total Recoverable Sodium	BXE0591-BS1	LCS	9.6663	10.000	mg/L	96.7		85 - 115		
Total Recoverable Potassium	BXE0591-BS1	LCS	9.7725	10.000	mg/L	97.7		85 - 115		
QC Batch ID: BXE1141										

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Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXE1141										
Perchlorate	BXE1141-BS1	LCS	10.131	10.000	ug/L	101		85	115	
QC Batch ID: BXE1149										
Perchlorate	BXE1149-BS1	LCS	10.154	10.000	ug/L	102		85	115	

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Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)
Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Control Limits Percent Recovery, Lab Qualls. Includes QC Batch IDs BXE0021, BXE0022, BXE0122, BXE0126, BXE0150, and BXE0201.

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Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes QC batches BXE0201, BXE0307, BXE0308, BXE0469, BXE0591, BXE1141, and BXE1149.

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals	
								Percent Recovery	RPD		Percent Recovery
QC Batch ID: BXE1149		Used client sample: Y - Description: MW-4-3, 04/30/2014 10:55									
Perchlorate	DUP	1409554-11	2.6386	2.1159		ug/L	22.0		15		J,A02
	MS	1409554-11	2.6386	13.043	10.101	ug/L		103		80 - 120	
	MSD	1409554-11	2.6386	12.646	10.101	ug/L	3.1	99.1	15	80 - 120	

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Tidewater Inc.
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Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0089						
Hexavalent Chromium	BXE0089-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BXE0091						
Hexavalent Chromium	BXE0091-BLK1	0.00087600	mg/L	0.0020	0.00070	J
QC Batch ID: BXE0469						
Total Recoverable Iron	BXE0469-BLK1	20.503	ug/L	50	6.5	J
QC Batch ID: BXE0591						
Total Recoverable Iron	BXE0591-BLK1	38.424	ug/L	50	6.5	J
QC Batch ID: BXE0600						
Total Recoverable Arsenic	BXE0600-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	BXE0600-BLK1	1.1730	ug/L	3.0	0.50	J
Total Recoverable Lead	BXE0600-BLK1	ND	ug/L	1.0	0.10	
QC Batch ID: BXE0606						
Total Recoverable Arsenic	BXE0606-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	BXE0606-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	BXE0606-BLK1	ND	ug/L	1.0	0.10	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits		Lab RPD Quals
							Percent Recovery	RPD	
QC Batch ID: BXE0089									
Hexavalent Chromium	BXE0089-BS1	LCS	0.048921	0.050000	mg/L	97.8	85 - 115		
QC Batch ID: BXE0091									
Hexavalent Chromium	BXE0091-BS1	LCS	0.048969	0.050000	mg/L	97.9	85 - 115		
QC Batch ID: BXE0469									
Total Recoverable Iron	BXE0469-BS1	LCS	1090.4	1000.0	ug/L	109	85 - 115		
QC Batch ID: BXE0591									
Total Recoverable Iron	BXE0591-BS1	LCS	1149.8	1000.0	ug/L	115	85 - 115		
QC Batch ID: BXE0600									
Total Recoverable Arsenic	BXE0600-BS1	LCS	104.57	100.00	ug/L	105	85 - 115		
Total Recoverable Chromium	BXE0600-BS1	LCS	43.454	40.000	ug/L	109	85 - 115		
Total Recoverable Lead	BXE0600-BS1	LCS	99.950	100.00	ug/L	100	85 - 115		
QC Batch ID: BXE0606									
Total Recoverable Arsenic	BXE0606-BS1	LCS	101.10	100.00	ug/L	101	85 - 115		
Total Recoverable Chromium	BXE0606-BS1	LCS	41.002	40.000	ug/L	103	85 - 115		
Total Recoverable Lead	BXE0606-BS1	LCS	103.15	100.00	ug/L	103	85 - 115		

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Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes multiple QC batches (BXE0089, BXE0091, BXE0469, BXE0591, BXE0600, BXE0606) and various metal analysis results.

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/19/2014 9:33
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A02 The difference between duplicate readings is less than the PQL.
- A03 The sample concentration is more than 4 times the spike level.
- Q01 Sample precision is not within the control limits.
- S05 The sample holding time was exceeded.
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.



Date of Report: 05/23/2014

David Conner

Tidewater Inc.

3761 Attucks Drive

Powell, OH 43065

Client Project: 2nd Qtr.

BCL Project: JPL- GW Monitoring Wells

BCL Work Order: 1409680

Invoice ID: B173982

Enclosed are the results of analyses for samples received by the laboratory on 5/1/2014. 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; AK UST101

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Page 1 of 2

Chain of Custody Form



Report To: Tidewater, Inc.
Client: Tidewater, Inc. (P.O. #1219-000-02)
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@tideh2o.net
Submission #: 14-09680

Project Description: JPL-GW Monitoring
Project Code: 2nd Qtr.
Sampler (s): Blaine Tech

Analysis Requested:
 VOCs EPA 524.2
 TRM: Cr, Pb, As, Ca, Mg, K
 Na, Fe
 Hexavalent Cr6 - 7196 (mg/L)
 Cl, NO3, NO2, SO4, Perch.
 CO3, HCO3, Alk., TDS, pH
 Orthophosphate 365.1
 8270 Phenols
 8270 PAHs

Billing:
Client: Tidewater, Inc. (P.O. #1219-000-02)
Attn: As directed by Ben Headington
Address: 6625 Seilnick Drive, Suite A
City: ElkrIDGE **State:** MD **Zip:** 21075
 Are there any tests with holding times less than or equal to 48 hours?
 Yes NO
 *Standard Turnaround = 10

Notes:
 96
 MS/MSD
 CHOPPER TRAINING TIME
 DO Cl2 ROD MBAS CCT

Sample #	Sample Description	Date	Time	Matrix*
-1	TB-9-5/1/14	5-1-14	0600	AO
-2	MW-9	0821		
-3	DUP-5-2Q14	0841		
-4	MW-1	1015		
-5	DUP-6-2Q14	1030		
-6	MW-13	0817		
-7	MW-6	0945		
-8	MW-16	1055		
-9	MW-15	1210		
-10	DUP-7-2Q14	1225		
-11	MW-5	1305		

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

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

Lab TAT Approval: _____ *Additional Charges May Apply

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

Cost Center:
 1. Relinquished By: [Signature] Date: 5-1-14 Time: 1620
 2. Relinquished By: [Signature] Date: 5-1-14 Time: 1655
 3. Relinquished By: [Signature] Date: 5-1-14 Time: 2040

Global ID:
 1. Received By: [Signature] Date: 5-1-14 Time: 1620
 2. Received By: [Signature] Date: 5-1-14 Time: 1655
 3. Received By: [Signature] Date: 5-1-14 Time: 2040

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

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 1792 - 2897
Fax: 614 792 - 2897
Email Address: david.conner@tideh2o.net
Submission #: 14-09680

Project Description: JPL-GW Monitoring
Project Code: 2nd Qtr.
Sampler (s): Blaine Tech

Analysis Requested:
 VOCs EPA 524.2: XX X
 TRM: Cr, Pb, As, Ca, Mg, K: XX X
 Na, Fe: XX X
 Hexavalent Cr 6 -7196 (mg/L): XX X
 Cl, NO3, NO2, SO4, Perch.: XX X
 CO3, HCO3, Alk., TDS, PH: XX X
 Orthophosphate 365.1: XX X
 8270 Phenols: XX X
 8270 PAHs: XX X

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

Notes:
 Amber's submitted on work order # 1409784

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: [Signature] Date: 5-1-14 Time: 16:20
 2. Relinquished By: Nicole Date: 5-1-14 Time: 16:55
 3. Relinquished By: [Signature] Date: 5-1-14 Time: 20:00

Cost Center:
 1. Relinquished By: [Signature] Date: 5-1-14 Time: 16:20
 2. Relinquished By: Nicole Date: 5-1-14 Time: 16:55
 3. Relinquished By: [Signature] Date: 5-1-14 Time: 20:00

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

Submission #: 14-09680

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: 0.95 Container: PE Thermometer ID: 207 Date/Time: 6.1.14 2040
 Temperature: (A) 2.1 °C / (C) 2.1 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL		B	B	B	B	B	B	B		
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS		C	C	C	C	C	C	C		
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE / NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK	A1									
40ml VOA VIAL		A.3	A.3	A.3	A.3	A.3	A.3	A.3		
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER 6270										D,E
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: 6.1.14 2040



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

Submission #: 14-09680

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: 0.95 Container: PE Thermometer ID: 207 Date/Time: 6.1.14 2040
 Temperature: (A) 0.9 °C / (C) 0.9 °C Analyst Init: M

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL	B	B	B	B						
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS	C	C	C	C						
PT CYANIDE										
PT NITROGEN FORMS										
PT TOTAL SULFIDE										
2oz. NITRATE /NITRITE										
PT TOTAL ORGANIC CARBON										
PT TOX										
PT CHEMICAL OXYGEN DEMAND										
PIA PHENOLICS										
40ml VOA VIAL TRAVEL BLANK										
40ml VOA VIAL	A.B.	A.G.	A.B.	A.B.						
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: -12 missing Ambers 820 for analysis
 Sample Numbering Completed By: M Date/Time: 6.1.14 9:15



Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1409680-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-9-5/1/14 Sampled By: Blaine Tech of BAT	Receive Date: 05/01/2014 20:40 Sampling Date: 05/01/2014 06:00 Sample Depth: --- Lab Matrix: Water Sample Type: Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-9-5/1/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1409680-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-9 Sampled By: Blaine Tech of BAT	Receive Date: 05/01/2014 20:40 Sampling Date: 05/01/2014 08:21 Sample Depth: --- Lab Matrix: Water Sample Type: Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-9 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1409680-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: Dup-5-2Q14 Sampled By: Blaine Tech of BAT	Receive Date: 05/01/2014 20:40 Sampling Date: 05/01/2014 08:41 Sample Depth: --- Lab Matrix: Water Sample Type: Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): Dup-5-2Q14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1409680-04	COC Number: ---	Receive Date: 05/01/2014 20:40
	Project Number: JPL-GW	Sampling Date: 05/01/2014 10:15
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-1	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Blank Water
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-1
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1409680-05	COC Number: ---	Receive Date: 05/01/2014 20:40
	Project Number: JPL-GW	Sampling Date: 05/01/2014 10:30
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: Dup-6-2Q14	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Blank Water
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): Dup-6-2Q14
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1409680-06	COC Number: ---	Receive Date: 05/01/2014 20:40
	Project Number: JPL-GW	Sampling Date: 05/01/2014 08:12
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-13	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Blank 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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1409680-07	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-6 Sampled By: Blaine Tech of BAT	Receive Date: 05/01/2014 20:40 Sampling Date: 05/01/2014 09:45 Sample Depth: --- Lab Matrix: Water Sample Type: Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-6 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1409680-08	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-16 Sampled By: Blaine Tech of BAT	Receive Date: 05/01/2014 20:40 Sampling Date: 05/01/2014 10:55 Sample Depth: --- Lab Matrix: Water Sample Type: Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-16 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1409680-09	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-15 Sampled By: Blaine Tech of BAT	Receive Date: 05/01/2014 20:40 Sampling Date: 05/01/2014 12:10 Sample Depth: --- Lab Matrix: Water Sample Type: Blank 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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1409680-10	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: Dup-7-2Q14 Sampled By: Blaine Tech of BAT	Receive Date: 05/01/2014 20:40 Sampling Date: 05/01/2014 12:25 Sample Depth: --- Lab Matrix: Water Sample Type: Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): Dup-7-2Q14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1409680-11	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-5 Sampled By: Blaine Tech of BAT	Receive Date: 05/01/2014 20:40 Sampling Date: 05/01/2014 12:25 Sample Depth: --- Lab Matrix: Water Sample Type: Blank Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1409680-12	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-10 Sampled By: Blaine Tech of BAT	Receive Date: 05/01/2014 20:40 Sampling Date: 05/01/2014 14:11 Sample Depth: --- Lab Matrix: Water Sample Type: Blank 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: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409680-01	Client Sample Name: JPL-GW, TB-9-5/1/14, 5/1/2014 6:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	EPA-524.2	ND		1
Bromobenzene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Bromochloromethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
Bromodichloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	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: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409680-01 Client Sample Name: JPL-GW, TB-9-5/1/14, 5/1/2014 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: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409680-01	Client Sample Name: JPL-GW, TB-9-5/1/14, 5/1/2014 6:00:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	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)	98.0	%	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	05/02/14	05/03/14 00:45	MGC	MS-V5	1	BXE0194

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409680-01	Client Sample Name: JPL-GW, TB-9-5/1/14, 5/1/2014 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	05/02/14	05/03/14 00:45	MGC	MS-V5	1	BXE0194

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Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409680-02	Client Sample Name: JPL-GW, MW-9, 5/1/2014 8:21:00AM, 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.
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Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409680-02	Client Sample Name: JPL-GW, MW-9, 5/1/2014 8:21:00AM, 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: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409680-02	Client Sample Name: JPL-GW, MW-9, 5/1/2014 8:21:00AM, 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		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)	103	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	05/02/14	05/03/14 01:07	MGC	MS-V5	1	BXE0194

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Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409680-02	Client Sample Name: JPL-GW, MW-9, 5/1/2014 8:21:00AM, 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	05/02/14	05/03/14 01:07	MGC	MS-V5	1	BXE0194

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Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409680-02		Client Sample Name: JPL-GW, MW-9, 5/1/2014 8:21:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	60	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	19	mg/L	0.050	0.020	EPA-200.7	0.038		2
Total Recoverable Sodium	22	mg/L	0.50	0.017	EPA-200.7	ND		1
Total Recoverable Potassium	3.4	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	230	mg/L	5.0	5.0	SM-2320B	ND		3
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		3
Total Alkalinity as CaCO3	190	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	15	mg/L	0.50	0.067	EPA-300.0	0.22		4
Nitrate as N	0.14	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	49	mg/L	1.0	0.18	EPA-300.0	0.38		4
pH	7.32	pH Units	0.05	0.05	EPA-150.1		S05	5
Total Dissolved Solids @ 180 C	310	mg/L	20	20	EPA-160.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		7
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		8

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	05/08/14	05/08/14	18:36	JRG	PE-OP2	1	BXE0736
2	EPA-200.7	05/08/14	05/09/14	17:14	JRG	PE-OP2	1	BXE0736
3	SM-2320B	05/02/14	05/02/14	17:21	RML	MET-1	1	BXE0204
4	EPA-300.0	05/01/14	05/01/14	23:31	OLH	IC5	1	BXE0185
5	EPA-150.1	05/02/14	05/02/14	17:21	RML	MET-1	1	BXE0204
6	EPA-160.1	05/06/14	05/06/14	12:40	FRP	MANUAL	2	BXE0402
7	EPA-353.2	05/02/14	05/02/14	07:53	TDC	KONE-1	1	BXE0299
8	EPA-314.0	05/14/14	05/14/14	14:36	LD1	IC6	1	BXE1273

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Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409680-02	Client Sample Name: JPL-GW, MW-9, 5/1/2014 8:21:00AM, 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 Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	ND	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	96	ug/L	50	6.5	EPA-200.7	37		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/01/14	05/01/14 23:15	OLH	KONE-1	1	BXE0293
2	EPA-200.8	05/09/14	05/14/14 01:09	EAR	PE-EL2	1	BXE0841
3	EPA-200.7	05/08/14	05/08/14 18:36	JRG	PE-OP2	1	BXE0736

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Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409680-03	Client Sample Name: JPL-GW, Dup-5-2Q14, 5/1/2014 8:41:00AM, 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: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409680-03	Client Sample Name: JPL-GW, Dup-5-2Q14, 5/1/2014 8:41:00AM, 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: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409680-03	Client Sample Name: JPL-GW, Dup-5-2Q14, 5/1/2014 8:41:00AM, 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		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)	113	%	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	05/02/14	05/03/14 01:30	MGC	MS-V5	1	BXE0194

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Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409680-03	Client Sample Name: JPL-GW, Dup-5-2Q14, 5/1/2014 8:41:00AM, 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	05/02/14	05/03/14 01:30	MGC	MS-V5	1	BXE0194

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Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409680-03		Client Sample Name: JPL-GW, Dup-5-2Q14, 5/1/2014 8:41:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	59	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	19	mg/L	0.050	0.020	EPA-200.7	0.038		2
Total Recoverable Sodium	22	mg/L	0.50	0.017	EPA-200.7	ND		1
Total Recoverable Potassium	3.3	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	230	mg/L	5.0	5.0	SM-2320B	ND		3
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		3
Total Alkalinity as CaCO3	190	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	15	mg/L	0.50	0.067	EPA-300.0	0.22		4
Nitrate as N	0.15	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	49	mg/L	1.0	0.18	EPA-300.0	0.38		4
pH	7.39	pH Units	0.05	0.05	EPA-150.1		S05	5
Total Dissolved Solids @ 180 C	310	mg/L	20	20	EPA-160.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		7
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		8

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	05/08/14	05/08/14	18:46	JRG	PE-OP2	1	BXE0736
2	EPA-200.7	05/08/14	05/09/14	17:36	JRG	PE-OP2	1	BXE0736
3	SM-2320B	05/02/14	05/02/14	17:43	RML	MET-1	1	BXE0230
4	EPA-300.0	05/01/14	05/01/14	23:44	OLH	IC5	1	BXE0185
5	EPA-150.1	05/02/14	05/02/14	17:43	RML	MET-1	1	BXE0230
6	EPA-160.1	05/06/14	05/06/14	12:40	FRP	MANUAL	2	BXE0402
7	EPA-353.2	05/02/14	05/02/14	07:58	TDC	KONE-1	1	BXE0299
8	EPA-314.0	05/14/14	05/14/14	14:50	LD1	IC6	1	BXE1273

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409680-03	Client Sample Name: JPL-GW, Dup-5-2Q14, 5/1/2014 8:41:00AM, 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 Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	0.57	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	110	ug/L	50	6.5	EPA-200.7	37		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/01/14	05/01/14 23:15	OLH	KONE-1	1	BXE0293
2	EPA-200.8	05/09/14	05/14/14 01:12	EAR	PE-EL2	1	BXE0841
3	EPA-200.7	05/08/14	05/08/14 18:46	JRG	PE-OP2	1	BXE0736

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Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409680-04	Client Sample Name: JPL-GW, MW-1, 5/1/2014 10:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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.
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Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409680-04	Client Sample Name: JPL-GW, MW-1, 5/1/2014 10:15:00AM, 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.
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Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409680-04	Client Sample Name: JPL-GW, MW-1, 5/1/2014 10:15:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	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)	113	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	103	%	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	05/02/14	05/03/14 01:53	MGC	MS-V5	1	BXE0194

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409680-04	Client Sample Name: JPL-GW, MW-1, 5/1/2014 10:15:00AM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	05/02/14	05/03/14 01:53	MGC	MS-V5	1	BXE0194

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409680-04		Client Sample Name: JPL-GW, MW-1, 5/1/2014 10:15:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	53	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	17	mg/L	0.050	0.020	EPA-200.7	0.038		2
Total Recoverable Sodium	30	mg/L	0.50	0.017	EPA-200.7	ND		1
Total Recoverable Potassium	3.3	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	250	mg/L	5.0	5.0	SM-2320B	ND		3
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		3
Total Alkalinity as CaCO3	210	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	12	mg/L	0.50	0.067	EPA-300.0	0.22		4
Nitrate as N	ND	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	23	mg/L	1.0	0.18	EPA-300.0	0.38		4
pH	7.80	pH Units	0.05	0.05	EPA-150.1		S05	5
Total Dissolved Solids @ 180 C	300	mg/L	20	20	EPA-160.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		7
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		8

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	05/08/14	05/08/14	18:49	JRG	PE-OP2	1	BXE0736
2	EPA-200.7	05/08/14	05/09/14	17:38	JRG	PE-OP2	1	BXE0736
3	SM-2320B	05/02/14	05/02/14	17:57	RML	MET-1	1	BXE0230
4	EPA-300.0	05/01/14	05/01/14	23:57	OLH	IC5	1	BXE0185
5	EPA-150.1	05/02/14	05/02/14	17:57	RML	MET-1	1	BXE0230
6	EPA-160.1	05/06/14	05/06/14	12:40	FRP	MANUAL	2	BXE0402
7	EPA-353.2	05/02/14	05/02/14	07:58	TDC	KONE-1	1	BXE0299
8	EPA-314.0	05/14/14	05/14/14	15:04	LD1	IC6	1	BXE1273

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Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409680-04	Client Sample Name: JPL-GW, MW-1, 5/1/2014 10:15:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	0.54	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	12	ug/L	50	6.5	EPA-200.7	37	J	3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/01/14	05/01/14 23:15	OLH	KONE-1	1	BXE0293
2	EPA-200.8	05/09/14	05/14/14 01:16	EAR	PE-EL2	1	BXE0841
3	EPA-200.7	05/08/14	05/08/14 18:49	JRG	PE-OP2	1	BXE0736

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Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409680-05	Client Sample Name: JPL-GW, Dup-6-2Q14, 5/1/2014 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
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: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409680-05 Client Sample Name: JPL-GW, Dup-6-2Q14, 5/1/2014 10:30:00AM, Blaine Tech

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	EPA-524.2	ND		1
Ethylbenzene	ND	ug/L	0.50	0.098	EPA-524.2	ND		1
Hexachlorobutadiene	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Isopropylbenzene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
p-Isopropyltoluene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Methylene chloride	ND	ug/L	0.50	0.48	EPA-524.2	ND		1
Methyl t-butyl ether	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Naphthalene	ND	ug/L	0.50	0.36	EPA-524.2	ND		1
n-Propylbenzene	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
Styrene	ND	ug/L	0.50	0.068	EPA-524.2	ND		1
1,1,1,2-Tetrachloroethane	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
1,1,2,2-Tetrachloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
Tetrachloroethene	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409680-05	Client Sample Name: JPL-GW, Dup-6-2Q14, 5/1/2014 10:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	EPA-524.2	ND		1
Ethyl methacrylate	ND	ug/L	4.0	0.97	EPA-524.2	ND		1
Ethyl t-butyl ether	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
Hexachloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
2-Hexanone	ND	ug/L	10	3.4	EPA-524.2	ND		1
Methacrylonitrile	ND	ug/L	10	1.7	EPA-524.2	ND		1
Methyl ethyl ketone	ND	ug/L	10	2.5	EPA-524.2	ND		1
Methyl iodide	ND	ug/L	2.0	0.47	EPA-524.2	ND		1
Methyl isobutyl ketone	ND	ug/L	10	2.1	EPA-524.2	ND		1
Methyl methacrylate	ND	ug/L	5.0	1.5	EPA-524.2	ND		1
Pentachloroethane	ND	ug/L	2.0	0.43	EPA-524.2	ND	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)	111	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	91.8	%	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	05/02/14	05/03/14 02:15	MGC	MS-V5	1	BXE0194

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Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409680-05	Client Sample Name: JPL-GW, Dup-6-2Q14, 5/1/2014 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	05/02/14	05/03/14 02:15	MGC	MS-V5	1	BXE0194

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Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409680-05		Client Sample Name: JPL-GW, Dup-6-2Q14, 5/1/2014 10:30:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	53	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	17	mg/L	0.050	0.020	EPA-200.7	0.038		2
Total Recoverable Sodium	30	mg/L	0.50	0.017	EPA-200.7	ND		1
Total Recoverable Potassium	3.3	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	250	mg/L	5.0	5.0	SM-2320B	ND		3
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		3
Total Alkalinity as CaCO3	210	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	12	mg/L	0.50	0.067	EPA-300.0	0.22		4
Nitrate as N	ND	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	24	mg/L	1.0	0.18	EPA-300.0	0.38		4
pH	7.82	pH Units	0.05	0.05	EPA-150.1		S05	5
Total Dissolved Solids @ 180 C	290	mg/L	20	20	EPA-160.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		7
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		8

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-200.7	05/08/14	05/08/14	18:51	JRG	PE-OP2	1	BXE0736	
2	EPA-200.7	05/08/14	05/09/14	17:40	JRG	PE-OP2	1	BXE0736	
3	SM-2320B	05/02/14	05/02/14	18:03	RML	MET-1	1	BXE0230	
4	EPA-300.0	05/01/14	05/02/14	00:11	OLH	IC5	1	BXE0185	
5	EPA-150.1	05/02/14	05/02/14	18:03	RML	MET-1	1	BXE0230	
6	EPA-160.1	05/06/14	05/06/14	12:40	FRP	MANUAL	2	BXE0402	
7	EPA-353.2	05/02/14	05/02/14	08:02	TDC	KONE-1	1	BXE0300	
8	EPA-314.0	05/14/14	05/14/14	15:17	LD1	IC6	1	BXE1273	

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Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409680-05	Client Sample Name: JPL-GW, Dup-6-2Q14, 5/1/2014 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 Arsenic	0.75	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	1.1	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	110	ug/L	50	6.5	EPA-200.7	37		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/01/14	05/01/14 23:15	OLH	KONE-1	1	BXE0293
2	EPA-200.8	05/09/14	05/14/14 01:19	EAR	PE-EL2	1	BXE0841
3	EPA-200.7	05/08/14	05/08/14 18:51	JRG	PE-OP2	1	BXE0736

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Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409680-06	Client Sample Name: JPL-GW, MW-13, 5/1/2014 8:12:00AM, 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	0.96	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.34	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409680-06	Client Sample Name: JPL-GW, MW-13, 5/1/2014 8:12:00AM, 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	2.1	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	0.33	ug/L	0.50	0.085	EPA-524.2	ND	J	1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409680-06	Client Sample Name: JPL-GW, MW-13, 5/1/2014 8:12:00AM, 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		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)	111	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	90.1	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	05/02/14	05/03/14 02:38	MGC	MS-V5	1	BXE0194

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Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409680-06	Client Sample Name: JPL-GW, MW-13, 5/1/2014 8:12:00AM, 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	05/02/14	05/03/14 02:38	MGC	MS-V5	1	BXE0194

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Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409680-06		Client Sample Name: JPL-GW, MW-13, 5/1/2014 8:12:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	120	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	42	mg/L	0.050	0.020	EPA-200.7	0.038		2
Total Recoverable Sodium	42	mg/L	0.50	0.017	EPA-200.7	ND		1
Total Recoverable Potassium	4.1	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	240	mg/L	10	10	SM-2320B	ND		3
Carbonate	ND	mg/L	5.0	5.0	SM-2320B	ND		3
Total Alkalinity as CaCO3	200	mg/L	8.2	8.2	SM-2320B	ND		3
Chloride	120	mg/L	0.50	0.067	EPA-300.0	0.22		4
Nitrate as N	10	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	150	mg/L	1.0	0.18	EPA-300.0	0.38		4
pH	7.32	pH Units	0.05	0.05	EPA-150.1		S05	5
Total Dissolved Solids @ 180 C	660	mg/L	33	33	EPA-160.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		7
Perchlorate	200	ug/L	80	9.0	EPA-314.0	ND	A01	8
ortho-Phosphate as P	0.027	mg/L	0.020	0.0040	EPA-365.1	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	05/08/14	05/08/14 18:54	JRG	PE-OP2	1	BXE0736
2	EPA-200.7	05/08/14	05/09/14 17:43	JRG	PE-OP2	1	BXE0736
3	SM-2320B	05/02/14	05/02/14 18:10	RML	MET-1	2	BXE0230
4	EPA-300.0	05/01/14	05/02/14 00:51	OLH	IC5	1	BXE0185
5	EPA-150.1	05/02/14	05/02/14 18:10	RML	MET-1	1	BXE0230
6	EPA-160.1	05/06/14	05/06/14 12:40	FRP	MANUAL	3.333	BXE0402
7	EPA-353.2	05/02/14	05/02/14 07:58	TDC	KONE-1	1	BXE0299
8	EPA-314.0	05/14/14	05/14/14 20:22	OLH	IC6	20	BXE1273
9	EPA-365.1	05/02/14	05/02/14 09:03	TDC	KONE-1	1	BXE0298

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Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409680-06	Client Sample Name: JPL-GW, MW-13, 5/1/2014 8:12:00AM, 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 Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	220	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	830	ug/L	50	6.5	EPA-200.7	37		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/01/14	05/01/14 23:21	OLH	KONE-1	1	BXE0293
2	EPA-200.8	05/09/14	05/14/14 01:22	EAR	PE-EL2	1	BXE0841
3	EPA-200.7	05/08/14	05/08/14 18:54	JRG	PE-OP2	1	BXE0736

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Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409680-07	Client Sample Name: JPL-GW, MW-6, 5/1/2014 9:45:00AM, 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	0.73	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.24	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	0.11	ug/L	0.50	0.085	EPA-524.2	ND	J	1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409680-07	Client Sample Name: JPL-GW, MW-6, 5/1/2014 9:45:00AM, 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	1.1	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	4.2	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409680-07	Client Sample Name: JPL-GW, MW-6, 5/1/2014 9:45:00AM, 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		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)	113	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	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	05/02/14	05/02/14 22:29	MGC	MS-V5	1	BXE0194

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409680-07	Client Sample Name: JPL-GW, MW-6, 5/1/2014 9:45:00AM, 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	05/02/14	05/02/14 22:29	MGC	MS-V5	1	BXE0194

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Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409680-07		Client Sample Name: JPL-GW, MW-6, 5/1/2014 9:45:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	140	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	48	mg/L	0.050	0.020	EPA-200.7	0.038		2
Total Recoverable Sodium	51	mg/L	0.50	0.017	EPA-200.7	ND		1
Total Recoverable Potassium	3.0	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	250	mg/L	10	10	SM-2320B	ND		3
Carbonate	ND	mg/L	5.0	5.0	SM-2320B	ND		3
Total Alkalinity as CaCO3	200	mg/L	8.2	8.2	SM-2320B	ND		3
Chloride	140	mg/L	0.50	0.067	EPA-300.0	0.22		4
Nitrate as N	13	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	220	mg/L	1.0	0.18	EPA-300.0	0.38		4
pH	7.20	pH Units	0.05	0.05	EPA-150.1		S05	5
Total Dissolved Solids @ 180 C	840	mg/L	50	50	EPA-160.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		7
Perchlorate	2.7	ug/L	4.0	0.45	EPA-314.0	ND	J	8

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	05/08/14	05/08/14	18:21	JRG	PE-OP2	1	BXE0736
2	EPA-200.7	05/08/14	05/09/14	17:00	JRG	PE-OP2	1	BXE0736
3	SM-2320B	05/02/14	05/02/14	18:15	RML	MET-1	2	BXE0230
4	EPA-300.0	05/01/14	05/02/14	03:32	LD1	IC5	1	BXE0185
5	EPA-150.1	05/02/14	05/02/14	18:15	RML	MET-1	1	BXE0230
6	EPA-160.1	05/06/14	05/06/14	12:40	FRP	MANUAL	5	BXE0402
7	EPA-353.2	05/02/14	05/02/14	08:09	TDC	KONE-1	1	BXE0300
8	EPA-314.0	05/14/14	05/14/14	16:13	OLH	IC6	1	BXE1273

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409680-07	Client Sample Name: JPL-GW, MW-6, 5/1/2014 9:45:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0016	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	190	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	1600	ug/L	50	6.5	EPA-200.7	37		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/01/14	05/01/14 23:15	OLH	KONE-1	1	BXE0293
2	EPA-200.8	05/09/14	05/14/14 00:42	EAR	PE-EL2	1	BXE0841
3	EPA-200.7	05/08/14	05/08/14 18:21	JRG	PE-OP2	1	BXE0736

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Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409680-08	Client Sample Name: JPL-GW, MW-16, 5/1/2014 10:55:00AM, 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	6.7	ug/L	0.50	0.14	EPA-524.2	ND		1
Bromoform	6.1	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	4.0	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	8.4	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: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409680-08	Client Sample Name: JPL-GW, MW-16, 5/1/2014 10:55:00AM, 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
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: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409680-08	Client Sample Name: JPL-GW, MW-16, 5/1/2014 10:55:00AM, 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		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)	111	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	100	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	94.4	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	05/02/14	05/03/14 03:00	MGC	MS-V5	1	BXE0194

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409680-08	Client Sample Name: JPL-GW, MW-16, 5/1/2014 10:55:00AM, Blaine Tech
----------------------------------	--

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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	05/02/14	05/03/14 03:00	MGC	MS-V5	1	BXE0194

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Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409680-08		Client Sample Name: JPL-GW, MW-16, 5/1/2014 10:55:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	71	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	24	mg/L	0.050	0.020	EPA-200.7	0.038		2
Total Recoverable Sodium	42	mg/L	0.50	0.017	EPA-200.7	ND		1
Total Recoverable Potassium	3.9	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	220	mg/L	5.0	5.0	SM-2320B	ND		3
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		3
Total Alkalinity as CaCO3	180	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	90	mg/L	0.50	0.067	EPA-300.0	0.22		4
Nitrate as N	1.3	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	49	mg/L	1.0	0.18	EPA-300.0	0.38		4
pH	7.69	pH Units	0.05	0.05	EPA-150.1		S05	5
Total Dissolved Solids @ 180 C	440	mg/L	33	33	EPA-160.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		7
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		8
ortho-Phosphate as P	0.22	mg/L	0.020	0.0040	EPA-365.1	ND		9

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	05/08/14	05/08/14 18:56	JRG	PE-OP2	1	BXE0736
2	EPA-200.7	05/08/14	05/09/14 17:45	JRG	PE-OP2	1	BXE0736
3	SM-2320B	05/02/14	05/02/14 18:21	RML	MET-1	1	BXE0230
4	EPA-300.0	05/01/14	05/02/14 01:58	LD1	IC5	1	BXE0185
5	EPA-150.1	05/02/14	05/02/14 18:21	RML	MET-1	1	BXE0230
6	EPA-160.1	05/06/14	05/06/14 12:40	FRP	MANUAL	3.333	BXE0402
7	EPA-353.2	05/02/14	05/02/14 08:02	TDC	KONE-1	1	BXE0300
8	EPA-314.0	05/14/14	05/14/14 17:08	OLH	IC6	1	BXE1273
9	EPA-365.1	05/02/14	05/02/14 09:03	TDC	KONE-1	1	BXE0298

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3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409680-08	Client Sample Name: JPL-GW, MW-16, 5/1/2014 10:55:00AM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0070	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Arsenic	11	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	690	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	10000	ug/L	50	6.5	EPA-200.7	37		3
Total Recoverable Lead	3.2	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/01/14	05/01/14 23:21	OLH	KONE-1	1	BXE0293
2	EPA-200.8	05/09/14	05/14/14 01:26	EAR	PE-EL2	1	BXE0841
3	EPA-200.7	05/08/14	05/08/14 18:56	JRG	PE-OP2	1	BXE0736

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Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409680-09	Client Sample Name: JPL-GW, MW-15, 5/1/2014 12:10:00PM, 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
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: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409680-09	Client Sample Name: JPL-GW, MW-15, 5/1/2014 12:10:00PM, 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
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: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409680-09	Client Sample Name: JPL-GW, MW-15, 5/1/2014 12:10:00PM, 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		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)	117	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	05/02/14	05/03/14 03:23	MGC	MS-V5	1	BXE0194

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Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409680-09	Client Sample Name: JPL-GW, MW-15, 5/1/2014 12:10:00PM, 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	05/02/14	05/03/14 03:23	MGC	MS-V5	1	BXE0194

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Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409680-09		Client Sample Name: JPL-GW, MW-15, 5/1/2014 12:10:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	59	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	19	mg/L	0.050	0.020	EPA-200.7	0.038		2
Total Recoverable Sodium	26	mg/L	0.50	0.017	EPA-200.7	ND		1
Total Recoverable Potassium	3.2	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	240	mg/L	5.0	5.0	SM-2320B	ND		3
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		3
Total Alkalinity as CaCO3	200	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	15	mg/L	0.50	0.067	EPA-300.0	0.22		4
Nitrate as N	0.34	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	44	mg/L	1.0	0.18	EPA-300.0	0.38		4
pH	7.61	pH Units	0.05	0.05	EPA-150.1		S05	5
Total Dissolved Solids @ 180 C	310	mg/L	20	20	EPA-160.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		7
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		8

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	05/08/14	05/08/14	18:59	JRG	PE-OP2	1	BXE0736
2	EPA-200.7	05/08/14	05/09/14	18:01	JRG	PE-OP2	1	BXE0736
3	SM-2320B	05/02/14	05/02/14	18:28	RML	MET-1	1	BXE0230
4	EPA-300.0	05/01/14	05/02/14	02:11	LD1	IC5	1	BXE0185
5	EPA-150.1	05/02/14	05/02/14	18:28	RML	MET-1	1	BXE0230
6	EPA-160.1	05/06/14	05/06/14	12:40	FRP	MANUAL	2	BXE0402
7	EPA-353.2	05/02/14	05/02/14	07:58	TDC	KONE-1	1	BXE0299
8	EPA-314.0	05/14/14	05/14/14	17:22	OLH	IC6	1	BXE1273

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Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409680-09	Client Sample Name: JPL-GW, MW-15, 5/1/2014 12:10:00PM, Blaine Tech							
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Arsenic	1.0	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	0.96	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	62	ug/L	50	6.5	EPA-200.7	37		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/01/14	05/01/14 23:21	OLH	KONE-1	1	BXE0293
2	EPA-200.8	05/09/14	05/14/14 01:29	EAR	PE-EL2	1	BXE0841
3	EPA-200.7	05/08/14	05/08/14 18:59	JRG	PE-OP2	1	BXE0736

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Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409680-10	Client Sample Name: JPL-GW, Dup-7-2Q14, 5/1/2014 12:25:00PM, 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: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409680-10	Client Sample Name: JPL-GW, Dup-7-2Q14, 5/1/2014 12:25:00PM, 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: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409680-10	Client Sample Name: JPL-GW, Dup-7-2Q14, 5/1/2014 12:25:00PM, 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		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)	112	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	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	05/02/14	05/03/14 03:45	MGC	MS-V5	1	BXE0194

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409680-10	Client Sample Name: JPL-GW, Dup-7-2Q14, 5/1/2014 12:25:00PM, 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	05/02/14	05/03/14 03:45	MGC	MS-V5	1	BXE0194

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Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

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

Table with 8 columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID. Rows correspond to runs 1 through 8.

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409680-10	Client Sample Name: JPL-GW, Dup-7-2Q14, 5/1/2014 12:25:00PM, 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 Arsenic	0.96	ug/L	2.0	0.70	EPA-200.8	ND	J	2
Total Recoverable Chromium	1.4	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	61	ug/L	50	6.5	EPA-200.7	37		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/01/14	05/01/14 23:21	OLH	KONE-1	1	BXE0293
2	EPA-200.8	05/09/14	05/14/14 01:32	EAR	PE-EL2	1	BXE0841
3	EPA-200.7	05/08/14	05/08/14 19:01	JRG	PE-OP2	1	BXE0736

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409680-11	Client Sample Name: JPL-GW, MW-5, 5/1/2014 12:25:00PM, 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: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409680-11	Client Sample Name: JPL-GW, MW-5, 5/1/2014 12:25:00PM, 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: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409680-11	Client Sample Name: JPL-GW, MW-5, 5/1/2014 12:25:00PM, 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		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)	112	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	05/02/14	05/03/14 04:08	MGC	MS-V5	1	BXE0194

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409680-11	Client Sample Name: JPL-GW, MW-5, 5/1/2014 12:25:00PM, Blaine Tech
----------------------------------	---

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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	05/02/14	05/03/14 04:08	MGC	MS-V5	1	BXE0194

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Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1409680-11	Client Sample Name: JPL-GW, MW-5, 5/1/2014 12:25:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Acenaphthylene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Aldrin	ND	ug/L	2.0	0.35	EPA-8270C	ND		1
Aniline	ND	ug/L	5.0	0.69	EPA-8270C	ND		1
Anthracene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Benzidine	ND	ug/L	20	7.1	EPA-8270C	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	0.38	EPA-8270C	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	0.41	EPA-8270C	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
Benzoic acid	ND	ug/L	10	5.8	EPA-8270C	ND		1
Benzyl alcohol	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	0.47	EPA-8270C	ND		1
alpha-BHC	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
beta-BHC	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
delta-BHC	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.0	0.68	EPA-8270C	ND		1
bis(2-Chloroisopropyl) ether	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
bis(2-Ethylhexyl)phthalate	ND	ug/L	4.0	3.0	EPA-8270C	ND		1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
4-Chloroaniline	ND	ug/L	2.0	0.69	EPA-8270C	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
Chrysene	ND	ug/L	2.0	0.63	EPA-8270C	ND		1
4,4'-DDD	ND	ug/L	2.0	0.48	EPA-8270C	ND		1
4,4'-DDE	ND	ug/L	3.0	0.41	EPA-8270C	ND		1
4,4'-DDT	ND	ug/L	2.0	0.43	EPA-8270C	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	0.26	EPA-8270C	ND		1
Dibenzofuran	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	0.37	EPA-8270C	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1409680-11	Client Sample Name: JPL-GW, MW-5, 5/1/2014 12:25:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	2.0	0.35	EPA-8270C	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	8.2	EPA-8270C	ND		1
Dieldrin	ND	ug/L	3.0	0.41	EPA-8270C	ND		1
Diethyl phthalate	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.39	EPA-8270C	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	0.39	EPA-8270C	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.41	EPA-8270C	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.46	EPA-8270C	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
Endosulfan I	ND	ug/L	10	1.7	EPA-8270C	ND		1
Endosulfan II	ND	ug/L	10	1.2	EPA-8270C	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.58	EPA-8270C	ND		1
Endrin	ND	ug/L	2.0	1.1	EPA-8270C	ND		1
Endrin aldehyde	ND	ug/L	10	0.52	EPA-8270C	ND		1
Fluoranthene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Fluorene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Heptachlor	ND	ug/L	2.0	0.32	EPA-8270C	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
Hexachlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Hexachlorobutadiene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Hexachlorocyclopentadiene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Hexachloroethane	ND	ug/L	2.0	0.32	EPA-8270C	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
Isophorone	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Naphthalene	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
2-Naphthylamine	ND	ug/L	20	4.8	EPA-8270C	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.66	EPA-8270C	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.87	EPA-8270C	ND		1
Nitrobenzene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1409680-11	Client Sample Name: JPL-GW, MW-5, 5/1/2014 12:25:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.0	0.61	EPA-8270C	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	1.3	EPA-8270C	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	0.44	EPA-8270C	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Pyrene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.40	EPA-8270C	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.37	EPA-8270C	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.43	EPA-8270C	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.34	EPA-8270C	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-8270C	ND		1
2-Methylphenol	ND	ug/L	2.0	1.0	EPA-8270C	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	1.6	EPA-8270C	ND		1
Total Methylphenol	ND	ug/L	4.0	2.6	EPA-8270C	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.73	EPA-8270C	ND		1
Pentachlorophenol	ND	ug/L	10	0.79	EPA-8270C	ND		1
Phenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.31	EPA-8270C	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.60	EPA-8270C	ND		1
Acetophenone	ND	ug/L	10	3.0	EPA-8270C	ND		1
2-Acetylaminofluorene	ND	ug/L	10	0.38	EPA-8270C	ND		1
Acrolein, dimethyl acetal	ND	ug/L	40	7.7	EPA-8270C	ND		1
4-Aminobiphenyl	ND	ug/L	20	5.2	EPA-8270C	ND		1
Aramite	ND	ug/L	10	2.3	EPA-8270C	ND		1
Benefin	ND	ug/L	10	0.88	EPA-8270C	ND		1
Carbazole	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
cis-Chlordane	ND	ug/L	5.0	0.30	EPA-8270C	ND		1
trans-Chlordane	ND	ug/L	5.0	0.40	EPA-8270C	ND		1
Chlorobenzilate	ND	ug/L	10	0.29	EPA-8270C	ND		1
1-Chloronaphthalene	ND	ug/L	10	0.28	EPA-8270C	ND		1
cis-Diallate	ND	ug/L	5.0	0.21	EPA-8270C	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1409680-11	Client Sample Name: JPL-GW, MW-5, 5/1/2014 12:25:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
trans-Diallate	ND	ug/L	5.0	0.22	EPA-8270C	ND		1
Diallate	ND	ug/L	10	0.42	EPA-8270C	ND		1
2,6-Dichlorophenol	ND	ug/L	10	1.3	EPA-8270C	ND		1
Dimethoate	ND	ug/L	20	0.46	EPA-8270C	ND		1
p-(Dimethylamino)azobenzene	ND	ug/L	10	0.54	EPA-8270C	ND		1
7,12-Dimethylbenz[a]anthracene	ND	ug/L	10	0.41	EPA-8270C	ND		1
3,3'-Dimethylbenzidine	ND	ug/L	20	5.4	EPA-8270C	ND		1
a,a-Dimethylphenethylamine	ND	ug/L	20	2.5	EPA-8270C	ND		1
Dimethyl sulfoxide (DMSO)	ND	ug/L	10	1.0	EPA-8270C	ND		1
1,3-Dinitrobenzene	ND	ug/L	10	0.23	EPA-8270C	ND		1
Dinoseb	ND	ug/L	10	0.61	EPA-8270C	ND		1
Diphenylamine	ND	ug/L	10	0.20	EPA-8270C	ND		1
Disulfoton	ND	ug/L	10	0.44	EPA-8270C	ND		1
Ethyl methacrylate	ND	ug/L	10	0.19	EPA-8270C	ND		1
Ethyl methanesulfonate	ND	ug/L	10	0.26	EPA-8270C	ND		1
Ethyl Parathion	ND	ug/L	10	0.31	EPA-8270C	ND		1
Famphur	ND	ug/L	20	8.3	EPA-8270C	ND		1
Hexachlorophene	ND	ug/L	200	35	EPA-8270C	ND		1
Hexachloropropene	ND	ug/L	20	0.46	EPA-8270C	ND		1
Isodrin	ND	ug/L	10	0.31	EPA-8270C	ND		1
cis-Isosafrole	ND	ug/L	5.0	0.41	EPA-8270C	ND		1
trans-Isosafrole	ND	ug/L	5.0	0.36	EPA-8270C	ND		1
Isosafrole	ND	ug/L	10	0.76	EPA-8270C	ND		1
Kepone	ND	ug/L	20	1.5	EPA-8270C	ND		1
Methapyrilene	ND	ug/L	10	1.5	EPA-8270C	ND		1
Methoxychlor	ND	ug/L	10	0.40	EPA-8270C	ND		1
3-Methylcholanthrene	ND	ug/L	10	0.56	EPA-8270C	ND		1
Methyl methacrylate	ND	ug/L	40	22	EPA-8270C	ND		1
Methyl methanesulfonate	ND	ug/L	10	0.42	EPA-8270C	ND		1
1-Methylnaphthalene	ND	ug/L	10	0.41	EPA-8270C	ND		1
Methyl parathion	ND	ug/L	10	0.32	EPA-8270C	ND		1
N-Methyl-2-pyrrolidinone	ND	ug/L	10	1.6	EPA-8270C	ND		1
1,4-Naphthoquinone	ND	ug/L	20	2.1	EPA-8270C	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1409680-11	Client Sample Name: JPL-GW, MW-5, 5/1/2014 12:25:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1-Naphthylamine	ND	ug/L	20	5.3	EPA-8270C	ND		1
5-Nitro-o-toluidine	ND	ug/L	10	0.44	EPA-8270C	ND		1
4-Nitroquinoline 1-oxide	ND	ug/L	20	12	EPA-8270C	ND		1
N-Nitrosodibutylamine	ND	ug/L	10	0.41	EPA-8270C	ND		1
N-Nitrosodiethylamine	ND	ug/L	10	0.43	EPA-8270C	ND		1
N-Nitrosomethylethylamine	ND	ug/L	10	0.37	EPA-8270C	ND		1
N-Nitrosomorpholine	ND	ug/L	10	0.35	EPA-8270C	ND		1
N-Nitrosopiperidine	ND	ug/L	10	0.44	EPA-8270C	ND		1
N-Nitrosopyrrolidine	ND	ug/L	10	0.44	EPA-8270C	ND		1
Pentachlorobenzene	ND	ug/L	10	0.25	EPA-8270C	ND		1
Pentachloroethane	ND	ug/L	20	1.0	EPA-8270C	ND		1
Pentachloronitrobenzene	ND	ug/L	10	0.30	EPA-8270C	ND		1
Phenacetin	ND	ug/L	10	0.20	EPA-8270C	ND		1
1,4-Phenylenediamine	ND	ug/L	20	2.2	EPA-8270C	ND		1
Phorate	ND	ug/L	10	0.34	EPA-8270C	ND		1
2-Picoline	ND	ug/L	10	0.23	EPA-8270C	ND		1
PCB-1016	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1221	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1232	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1242	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1248	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1254	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1260	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1262	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1268	ND	ug/L	50	25	EPA-8270C	ND		1
Total PCB's (Summation)	ND	ug/L	50	25	EPA-8270C	ND		1
Prometryn	ND	ug/L	10	1.7	EPA-8270C	ND		1
Pronamide	ND	ug/L	10	0.29	EPA-8270C	ND		1
Propyleneglycol monomethyl ether acetate	ND	ug/L	10	4.2	EPA-8270C	ND		1
Prowl	ND	ug/L	10	0.83	EPA-8270C	ND		1
Pyridine	ND	ug/L	10	0.27	EPA-8270C	ND		1
Safrole	ND	ug/L	10	0.33	EPA-8270C	ND		1
Sulfotep	ND	ug/L	10	0.43	EPA-8270C	ND		1

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Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1409680-11	Client Sample Name: JPL-GW, MW-5, 5/1/2014 12:25:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10	0.39	EPA-8270C	ND		1
2,3,4,5-Tetrachlorophenol	ND	ug/L	10	5.0	EPA-8270C	ND		1
2,3,4,6-Tetrachlorophenol	ND	ug/L	10	4.7	EPA-8270C	ND		1
Thionazin	ND	ug/L	10	0.21	EPA-8270C	ND		1
2-Toluidine	ND	ug/L	10	0.49	EPA-8270C	ND		1
Toxaphene	ND	ug/L	100	50	EPA-8270C	ND		1
o,o,o-Triethylphosphorothioate	ND	ug/L	10	0.42	EPA-8270C	ND		1
1,3,5-Trinitrobenzene	ND	ug/L	10	0.30	EPA-8270C	ND		1
Tris(hydroxymethyl)nitromethane	ND	ug/L	50	5.0	EPA-8270C	ND		1
2-Fluorophenol (Surrogate)	36.9	%	30 - 120 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	36.5	%	12 - 110 (LCL - UCL)		EPA-8270C			1
Nitrobenzene-d5 (Surrogate)	73.1	%	60 - 130 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	71.4	%	55 - 125 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	61.6	%	40 - 150 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	82.1	%	40 - 150 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	05/07/14	05/17/14 04:52	VH1	MS-B2	0.990	BXE0865

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

BCL Sample ID:	1409680-11	Client Sample Name:	JPL-GW, MW-5, 5/1/2014 12:25:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1-Acetyl-2-thiourea	0	ug/L			EPA-8270C	0		1
2-Aminoanthraquinone	0	ug/L			EPA-8270C	0		1
3-Amino-9-ethylcarbazole	0	ug/L			EPA-8270C	0		1
Anilazine	0	ug/L			EPA-8270C	0		1
o-Anisidine	0	ug/L			EPA-8270C	0		1
Azinphos methyl	0	ug/L			EPA-8270C	0		1
Barban	0	ug/L			EPA-8270C	0		1
p-Benzoquinone	0	ug/L			EPA-8270C	0		1
Bromoxynil	0	ug/L			EPA-8270C	0		1
Captafol	0	ug/L			EPA-8270C	0		1
Captan	0	ug/L			EPA-8270C	0		1
Carbaryl	0	ug/L			EPA-8270C	0		1
Carbofuran	0	ug/L			EPA-8270C	0		1
Carbophenothion	0	ug/L			EPA-8270C	0		1
Chlorfenvinphos	0	ug/L			EPA-8270C	0		1
5-Chloro-2-methylaniline	0	ug/L			EPA-8270C	0		1
3-(Chloromethyl) pyridine hydrochloride	0	ug/L			EPA-8270C	0		1
4-Chloro-1,2-phenylenediamine	0	ug/L			EPA-8270C	0		1
4-Chloro-1,3-phenylenediamine	0	ug/L			EPA-8270C	0		1
Coumaphos	0	ug/L			EPA-8270C	0		1
p-Cresidine	0	ug/L			EPA-8270C	0		1
Crotoxyphos	0	ug/L			EPA-8270C	0		1
2-Cyclohexyl-4,6-dinitrophenol	0	ug/L			EPA-8270C	0		1
Demeton-O	0	ug/L			EPA-8270C	0		1
Demeton-S	0	ug/L			EPA-8270C	0		1
2,4-Diaminotoluene	0	ug/L			EPA-8270C	0		1
Dibenz[a,j]acridine	0	ug/L			EPA-8270C	0		1
Dibenzo[a,e]pyrene	0	ug/L			EPA-8270C	0		1
1,2-Dibromo-3-chloropropane	0	ug/L			EPA-8270C	0		1
Dichlone	0	ug/L			EPA-8270C	0		1
Dichlorvos	0	ug/L			EPA-8270C	0		1
Dicrotophos	0	ug/L			EPA-8270C	0		1
Diethylstilbestrol	0	ug/L			EPA-8270C	0		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

BCL Sample ID:	1409680-11	Client Sample Name:	JPL-GW, MW-5, 5/1/2014 12:25:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl sulfate	0	ug/L			EPA-8270C	0		1
Dihydrosafrole	0	ug/L			EPA-8270C	0		1
3,3'-Dimethoxybenzidine	0	ug/L			EPA-8270C	0		1
1,2-Dinitrobenzene	0	ug/L			EPA-8270C	0		1
1,4-Dinitrobenzene	0	ug/L			EPA-8270C	0		1
Dinocap	0	ug/L			EPA-8270C	0		1
Dioxathion	0	ug/L			EPA-8270C	0		1
5,5-Diphenylhydantoin	0	ug/L			EPA-8270C	0		1
Endrin ketone	0	ug/L			EPA-8270C	0		1
EPN	0	ug/L			EPA-8270C	0		1
Ethion	0	ug/L			EPA-8270C	0		1
Ethyl carbamate	0	ug/L			EPA-8270C	0		1
Fensulfothion	0	ug/L			EPA-8270C	0		1
Fenthion	0	ug/L			EPA-8270C	0		1
Fluchloralin	0	ug/L			EPA-8270C	0		1
Hexamethylphosphoramide	0	ug/L			EPA-8270C	0		1
Hydroquinone	0	ug/L			EPA-8270C	0		1
Leptophos	0	ug/L			EPA-8270C	0		1
Malathion	0	ug/L			EPA-8270C	0		1
Maleic Anhydride	0	ug/L			EPA-8270C	0		1
Mestranol	0	ug/L			EPA-8270C	0		1
4,4'-Methylenebis(2-chloroaniline)	0	ug/L			EPA-8270C	0		1
4,4'-Methylenebis[N,N-dimethylaniline]	0	ug/L			EPA-8270C	0		1
Mevinphos	0	ug/L			EPA-8270C	0		1
Mexacarbate	0	ug/L			EPA-8270C	0		1
Mirex	0	ug/L			EPA-8270C	0		1
Monocrotophos	0	ug/L			EPA-8270C	0		1
Naled	0	ug/L			EPA-8270C	0		1
Nicotine	0	ug/L			EPA-8270C	0		1
5-Nitroacenaphthene	0	ug/L			EPA-8270C	0		1
5-Nitro-o-anisidine	0	ug/L			EPA-8270C	0		1
4-Nitrobiphenyl	0	ug/L			EPA-8270C	0		1
Nitrophen	0	ug/L			EPA-8270C	0		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

BCL Sample ID: 1409680-11	Client Sample Name: JPL-GW, MW-5, 5/1/2014 12:25:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Octamethylpyrophosphoramide	0	ug/L			EPA-8270C	0		1
4,4'-Oxydianiline	0	ug/L			EPA-8270C	0		1
Phenobarbital	0	ug/L			EPA-8270C	0		1
Phosalone	0	ug/L			EPA-8270C	0		1
Phosmet	0	ug/L			EPA-8270C	0		1
Phosphamidon	0	ug/L			EPA-8270C	0		1
Phthalic anhydride	0	ug/L			EPA-8270C	0		1
Piperonyl sulfoxide	0	ug/L			EPA-8270C	0		1
Propylthiouracil	0	ug/L			EPA-8270C	0		1
Resorcinol	0	ug/L			EPA-8270C	0		1
Strychnine	0	ug/L			EPA-8270C	0		1
Sulfallate	0	ug/L			EPA-8270C	0		1
Terbufos	0	ug/L			EPA-8270C	0		1
Tetrachlorvinphos	0	ug/L			EPA-8270C	0		1
TEPP	0	ug/L			EPA-8270C	0		1
Thiophenol (Benzenethiol)	0	ug/L			EPA-8270C	0		1
Toluene 2,4-diisocyanate	0	ug/L			EPA-8270C	0		1
Trifluralin	0	ug/L			EPA-8270C	0		1
2,4,5-Trimethylaniline	0	ug/L			EPA-8270C	0		1
Trimethyl phosphate	0	ug/L			EPA-8270C	0		1
Tris(2,3-dibromopropyl) phosphate	0	ug/L			EPA-8270C	0		1
Tri-p-tolyl phosphate	0	ug/L			EPA-8270C	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	05/07/14	05/17/14 04:52	VH1	MS-B2	0.990	BXE0865

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

BCL Sample ID: 1409680-11	Client Sample Name: JPL-GW, MW-5, 5/1/2014 12:25:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Acenaphthylene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Anthracene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Benzo[a]anthracene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Benzo[b]fluoranthene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Benzo[k]fluoranthene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Benzo[a]pyrene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Benzo[g,h,i]perylene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Chrysene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Fluoranthene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Fluorene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Naphthalene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Phenanthrene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Pyrene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Nitrobenzene-d5 (Surrogate)	92.9	%	42 - 130 (LCL - UCL)		EPA-8270C-SIM			1
2-Fluorobiphenyl (Surrogate)	87.6	%	50 - 116 (LCL - UCL)		EPA-8270C-SIM			1
p-Terphenyl-d14 (Surrogate)	92.4	%	43 - 134 (LCL - UCL)		EPA-8270C-SIM			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C-SIM	05/07/14	05/15/14 12:08	MK1	MS-B7	0.960	BXE0883

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409680-11		Client Sample Name: JPL-GW, MW-5, 5/1/2014 12:25:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	58	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	18	mg/L	0.050	0.020	EPA-200.7	0.038		2
Total Recoverable Sodium	24	mg/L	0.50	0.017	EPA-200.7	ND		1
Total Recoverable Potassium	3.7	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	270	mg/L	5.0	5.0	SM-2320B	ND		3
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		3
Total Alkalinity as CaCO3	220	mg/L	4.1	4.1	SM-2320B	ND		3
Chloride	15	mg/L	0.50	0.067	EPA-300.0	0.22		4
Nitrate as N	0.35	mg/L	0.10	0.025	EPA-300.0	ND		4
Sulfate	44	mg/L	1.0	0.18	EPA-300.0	0.38		4
pH	7.20	pH Units	0.05	0.05	EPA-150.1		S05	5
Total Dissolved Solids @ 180 C	280	mg/L	20	20	EPA-160.1	ND		6
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		7
Perchlorate	ND	ug/L	4.0	0.45	EPA-314.0	ND		8

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	05/08/14	05/08/14	19:04	JRG	PE-OP2	1	BXE0736
2	EPA-200.7	05/08/14	05/09/14	18:06	JRG	PE-OP2	1	BXE0736
3	SM-2320B	05/02/14	05/02/14	18:41	RML	MET-1	1	BXE0230
4	EPA-300.0	05/01/14	05/02/14	02:38	LD1	IC5	1	BXE0185
5	EPA-150.1	05/02/14	05/02/14	18:41	RML	MET-1	1	BXE0230
6	EPA-160.1	05/06/14	05/06/14	12:40	FRP	MANUAL	2	BXE0402
7	EPA-353.2	05/02/14	05/02/14	08:02	TDC	KONE-1	1	BXE0300
8	EPA-314.0	05/14/14	05/14/14	18:45	OLH	IC6	1	BXE1274

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409680-11	Client Sample Name: JPL-GW, MW-5, 5/1/2014 12:25:00PM, 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 Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	0.81	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	100	ug/L	50	6.5	EPA-200.7	37		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/01/14	05/01/14 23:21	OLH	KONE-1	1	BXE0293
2	EPA-200.8	05/09/14	05/14/14 01:36	EAR	PE-EL2	1	BXE0841
3	EPA-200.7	05/08/14	05/08/14 19:04	JRG	PE-OP2	1	BXE0736

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409680-12	Client Sample Name: JPL-GW, MW-10, 5/1/2014 2:11:00PM, 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	0.72	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	0.22	ug/L	0.50	0.11	EPA-524.2	ND	J	1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	0.21	ug/L	0.50	0.085	EPA-524.2	ND	J	1
trans-1,2-Dichloroethene	0.21	ug/L	0.50	0.15	EPA-524.2	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: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409680-12	Client Sample Name: JPL-GW, MW-10, 5/1/2014 2:11:00PM, 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	0.81	ug/L	0.50	0.13	EPA-524.2	ND		1
Toluene	ND	ug/L	0.50	0.093	EPA-524.2	ND		1
1,2,3-Trichlorobenzene	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	0.50	0.19	EPA-524.2	ND		1
1,1,1-Trichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,1,2-Trichloroethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Trichloroethene	6.6	ug/L	0.50	0.085	EPA-524.2	ND		1
Trichlorofluoromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409680-12	Client Sample Name: JPL-GW, MW-10, 5/1/2014 2:11:00PM, 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		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)	115	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.2	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	93.9	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	05/02/14	05/03/14 04:30	MGC	MS-V5	1	BXE0194

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409680-12	Client Sample Name: JPL-GW, MW-10, 5/1/2014 2:11:00PM, 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	05/02/14	05/03/14 04:30	MGC	MS-V5	1	BXE0194

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409680-12		Client Sample Name: JPL-GW, MW-10, 5/1/2014 2:11:00PM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	140	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	48	mg/L	0.050	0.020	EPA-200.7	ND		1
Total Recoverable Sodium	38	mg/L	0.50	0.017	EPA-200.7	0.051		1
Total Recoverable Potassium	3.4	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	240	mg/L	10	10	SM-2320B	ND		2
Carbonate	ND	mg/L	5.0	5.0	SM-2320B	ND		2
Total Alkalinity as CaCO3	190	mg/L	8.2	8.2	SM-2320B	ND		2
Chloride	140	mg/L	0.50	0.067	EPA-300.0	0.25		3
Nitrate as N	16	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	200	mg/L	1.0	0.18	EPA-300.0	0.33		3
pH	7.25	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	820	mg/L	50	50	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	4.2	ug/L	4.0	0.45	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC	
			Date/Time					Batch ID	
1	EPA-200.7	05/13/14	05/13/14	19:44	ICP	PE-OP2	1	BXE1082	
2	SM-2320B	05/02/14	05/02/14	18:48	RML	MET-1	2	BXE0230	
3	EPA-300.0	05/01/14	05/02/14	02:52	LD1	IC5	1	BXE0184	
4	EPA-150.1	05/02/14	05/02/14	18:48	RML	MET-1	1	BXE0230	
5	EPA-160.1	05/06/14	05/06/14	12:40	FRP	MANUAL	5	BXE0403	
6	EPA-353.2	05/02/14	05/02/14	08:02	TDC	KONE-1	1	BXE0300	
7	EPA-314.0	05/14/14	05/14/14	18:59	OLH	IC6	1	BXE1274	

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Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409680-12	Client Sample Name: JPL-GW, MW-10, 5/1/2014 2:11:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0012	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	2.4	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	12	ug/L	50	6.5	EPA-200.7	7.1	J	3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/01/14	05/01/14 23:21	OLH	KONE-1	1	BXE0292
2	EPA-200.8	05/09/14	05/12/14 16:42	SRM	PE-EL2	1	BXE0842
3	EPA-200.7	05/13/14	05/13/14 19:44	ICP	PE-OP2	1	BXE1082

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Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0194						
Benzene	BXE0194-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXE0194-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXE0194-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXE0194-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXE0194-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXE0194-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXE0194-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXE0194-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXE0194-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXE0194-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXE0194-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXE0194-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXE0194-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXE0194-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXE0194-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXE0194-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BXE0194-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXE0194-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXE0194-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXE0194-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXE0194-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXE0194-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXE0194-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXE0194-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXE0194-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXE0194-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXE0194-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXE0194-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXE0194-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXE0194-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXE0194-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXE0194-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXE0194-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXE0194-BLK1	ND	ug/L	0.50	0.14	

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Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0194						
trans-1,3-Dichloropropene	BXE0194-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXE0194-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXE0194-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXE0194-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXE0194-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXE0194-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXE0194-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXE0194-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXE0194-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXE0194-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXE0194-BLK1	ND	ug/L	0.50	0.18	
1,1,2,2-Tetrachloroethane	BXE0194-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BXE0194-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXE0194-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXE0194-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXE0194-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BXE0194-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXE0194-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXE0194-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXE0194-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXE0194-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXE0194-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXE0194-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXE0194-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXE0194-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXE0194-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXE0194-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXE0194-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXE0194-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXE0194-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXE0194-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXE0194-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXE0194-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXE0194-BLK1	ND	ug/L	4.0	0.97	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0194						
Ethyl t-butyl ether	BXE0194-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXE0194-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXE0194-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXE0194-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXE0194-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXE0194-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXE0194-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXE0194-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXE0194-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXE0194-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXE0194-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXE0194-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXE0194-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BXE0194-BLK1	114	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BXE0194-BLK1	100	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BXE0194-BLK1	93.8	%	80 - 120 (LCL - UCL)		

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Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXE0194										
Benzene	BXE0194-BS1	LCS	20.860	25.000	ug/L	83.4		70 - 130		
Bromodichloromethane	BXE0194-BS1	LCS	30.780	25.000	ug/L	123		70 - 130		
Chlorobenzene	BXE0194-BS1	LCS	24.580	25.000	ug/L	98.3		70 - 130		
Chloroethane	BXE0194-BS1	LCS	22.340	25.000	ug/L	89.4		70 - 130		
1,4-Dichlorobenzene	BXE0194-BS1	LCS	28.780	25.000	ug/L	115		70 - 130		
1,1-Dichloroethane	BXE0194-BS1	LCS	22.630	25.000	ug/L	90.5		70 - 130		
1,1-Dichloroethene	BXE0194-BS1	LCS	24.610	25.000	ug/L	98.4		70 - 130		
Toluene	BXE0194-BS1	LCS	24.090	25.000	ug/L	96.4		70 - 130		
Trichloroethene	BXE0194-BS1	LCS	25.870	25.000	ug/L	103		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXE0194-BS1	LCS	11.170	10.000	ug/L	112		75 - 125		
Toluene-d8 (Surrogate)	BXE0194-BS1	LCS	10.100	10.000	ug/L	101		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXE0194-BS1	LCS	11.340	10.000	ug/L	113		80 - 120		

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Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXE0194		Used client sample: Y - Description: MW-6, 05/01/2014 09:45								
Benzene	MS	1409680-07	ND	22.100	25.000	ug/L		88.4		70 - 130
	MSD	1409680-07	ND	21.650	25.000	ug/L	2.1	86.6	20	70 - 130
Bromodichloromethane	MS	1409680-07	ND	32.110	25.000	ug/L		128		70 - 130
	MSD	1409680-07	ND	31.160	25.000	ug/L	3.0	125	20	70 - 130
Chlorobenzene	MS	1409680-07	ND	25.110	25.000	ug/L		100		70 - 130
	MSD	1409680-07	ND	25.530	25.000	ug/L	1.7	102	20	70 - 130
Chloroethane	MS	1409680-07	ND	23.720	25.000	ug/L		94.9		70 - 130
	MSD	1409680-07	ND	23.470	25.000	ug/L	1.1	93.9	20	70 - 130
1,4-Dichlorobenzene	MS	1409680-07	ND	29.380	25.000	ug/L		118		70 - 130
	MSD	1409680-07	ND	29.260	25.000	ug/L	0.4	117	20	70 - 130
1,1-Dichloroethane	MS	1409680-07	0.24000	24.220	25.000	ug/L		95.9		70 - 130
	MSD	1409680-07	0.24000	23.220	25.000	ug/L	4.2	91.9	20	70 - 130
1,1-Dichloroethene	MS	1409680-07	ND	25.800	25.000	ug/L		103		70 - 130
	MSD	1409680-07	ND	25.030	25.000	ug/L	3.0	100	20	70 - 130
Toluene	MS	1409680-07	ND	24.540	25.000	ug/L		98.2		70 - 130
	MSD	1409680-07	ND	23.950	25.000	ug/L	2.4	95.8	20	70 - 130
Trichloroethene	MS	1409680-07	4.2000	30.270	25.000	ug/L		104		70 - 130
	MSD	1409680-07	4.2000	29.640	25.000	ug/L	2.1	102	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1409680-07	ND	11.090	10.000	ug/L		111		75 - 125
	MSD	1409680-07	ND	10.610	10.000	ug/L	4.4	106		75 - 125
Toluene-d8 (Surrogate)	MS	1409680-07	ND	9.9700	10.000	ug/L		99.7		80 - 120
	MSD	1409680-07	ND	9.7000	10.000	ug/L	2.7	97.0		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1409680-07	ND	11.210	10.000	ug/L		112		80 - 120
	MSD	1409680-07	ND	11.340	10.000	ug/L	1.2	113		80 - 120

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Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0194						
Chloroacetonitrile	BXE0194-BLK1	0	ug/L			
1-Chlorobutane	BXE0194-BLK1	0	ug/L			
1,1-Dichloropropanone	BXE0194-BLK1	0	ug/L			
Methyl acrylate	BXE0194-BLK1	0	ug/L			
Nitrobenzene	BXE0194-BLK1	0	ug/L			
2-Nitropropane	BXE0194-BLK1	0	ug/L			

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Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0865						
Acenaphthene	BXE0865-BLK2	ND	ug/L	2.0	0.24	
Acenaphthylene	BXE0865-BLK2	ND	ug/L	2.0	0.28	
Aldrin	BXE0865-BLK2	ND	ug/L	2.0	0.35	
Aniline	BXE0865-BLK2	ND	ug/L	5.0	0.69	
Anthracene	BXE0865-BLK2	ND	ug/L	2.0	0.30	
Benzidine	BXE0865-BLK2	ND	ug/L	20	7.1	
Benzo[a]anthracene	BXE0865-BLK2	ND	ug/L	2.0	0.38	
Benzo[b]fluoranthene	BXE0865-BLK2	ND	ug/L	2.0	0.41	
Benzo[k]fluoranthene	BXE0865-BLK2	ND	ug/L	2.0	0.31	
Benzo[a]pyrene	BXE0865-BLK2	ND	ug/L	2.0	0.20	
Benzo[g,h,i]perylene	BXE0865-BLK2	ND	ug/L	2.0	0.22	
Benzoic acid	BXE0865-BLK2	ND	ug/L	10	5.8	
Benzyl alcohol	BXE0865-BLK2	ND	ug/L	2.0	0.34	
Benzyl butyl phthalate	BXE0865-BLK2	ND	ug/L	2.0	0.47	
alpha-BHC	BXE0865-BLK2	ND	ug/L	2.0	0.27	
beta-BHC	BXE0865-BLK2	ND	ug/L	2.0	0.27	
delta-BHC	BXE0865-BLK2	ND	ug/L	2.0	0.30	
gamma-BHC (Lindane)	BXE0865-BLK2	ND	ug/L	2.0	0.22	
bis(2-Chloroethoxy)methane	BXE0865-BLK2	ND	ug/L	2.0	0.27	
bis(2-Chloroethyl) ether	BXE0865-BLK2	ND	ug/L	2.0	0.68	
bis(2-Chloroisopropyl)ether	BXE0865-BLK2	ND	ug/L	2.0	0.30	
bis(2-Ethylhexyl)phthalate	BXE0865-BLK2	ND	ug/L	4.0	3.0	
4-Bromophenyl phenyl ether	BXE0865-BLK2	ND	ug/L	2.0	0.23	
4-Chloroaniline	BXE0865-BLK2	ND	ug/L	2.0	0.69	
2-Chloronaphthalene	BXE0865-BLK2	ND	ug/L	2.0	0.34	
4-Chlorophenyl phenyl ether	BXE0865-BLK2	ND	ug/L	2.0	0.23	
Chrysene	BXE0865-BLK2	ND	ug/L	2.0	0.63	
4,4'-DDD	BXE0865-BLK2	ND	ug/L	2.0	0.48	
4,4'-DDE	BXE0865-BLK2	ND	ug/L	3.0	0.41	
4,4'-DDT	BXE0865-BLK2	ND	ug/L	2.0	0.43	
Dibenzo[a,h]anthracene	BXE0865-BLK2	ND	ug/L	3.0	0.26	
Dibenzofuran	BXE0865-BLK2	ND	ug/L	2.0	0.21	
1,2-Dichlorobenzene	BXE0865-BLK2	ND	ug/L	2.0	0.37	
1,3-Dichlorobenzene	BXE0865-BLK2	ND	ug/L	2.0	0.35	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0865						
1,4-Dichlorobenzene	BXE0865-BLK2	ND	ug/L	2.0	0.31	
3,3-Dichlorobenzidine	BXE0865-BLK2	ND	ug/L	10	8.2	
Dieldrin	BXE0865-BLK2	ND	ug/L	3.0	0.41	
Diethyl phthalate	BXE0865-BLK2	ND	ug/L	2.0	0.33	
Dimethyl phthalate	BXE0865-BLK2	ND	ug/L	2.0	0.39	
Di-n-butyl phthalate	BXE0865-BLK2	ND	ug/L	2.0	0.39	
2,4-Dinitrotoluene	BXE0865-BLK2	ND	ug/L	2.0	0.26	
2,6-Dinitrotoluene	BXE0865-BLK2	ND	ug/L	2.0	0.41	
Di-n-octyl phthalate	BXE0865-BLK2	ND	ug/L	2.0	0.46	
1,2-Diphenylhydrazine	BXE0865-BLK2	ND	ug/L	2.0	0.34	
Endosulfan I	BXE0865-BLK2	ND	ug/L	10	1.7	
Endosulfan II	BXE0865-BLK2	ND	ug/L	10	1.2	
Endosulfan sulfate	BXE0865-BLK2	ND	ug/L	3.0	0.58	
Endrin	BXE0865-BLK2	ND	ug/L	2.0	1.1	
Endrin aldehyde	BXE0865-BLK2	ND	ug/L	10	0.52	
Fluoranthene	BXE0865-BLK2	ND	ug/L	2.0	0.20	
Fluorene	BXE0865-BLK2	ND	ug/L	2.0	0.28	
Heptachlor	BXE0865-BLK2	ND	ug/L	2.0	0.32	
Heptachlor epoxide	BXE0865-BLK2	ND	ug/L	2.0	0.27	
Hexachlorobenzene	BXE0865-BLK2	ND	ug/L	2.0	0.20	
Hexachlorobutadiene	BXE0865-BLK2	ND	ug/L	2.0	0.24	
Hexachlorocyclopentadiene	BXE0865-BLK2	ND	ug/L	2.0	0.30	
Hexachloroethane	BXE0865-BLK2	ND	ug/L	2.0	0.32	
Indeno[1,2,3-cd]pyrene	BXE0865-BLK2	ND	ug/L	2.0	0.26	
Isophorone	BXE0865-BLK2	ND	ug/L	2.0	0.31	
2-Methylnaphthalene	BXE0865-BLK2	ND	ug/L	2.0	0.28	
Naphthalene	BXE0865-BLK2	ND	ug/L	2.0	0.21	
2-Naphthylamine	BXE0865-BLK2	ND	ug/L	20	4.8	
2-Nitroaniline	BXE0865-BLK2	ND	ug/L	2.0	0.33	
3-Nitroaniline	BXE0865-BLK2	ND	ug/L	2.0	0.66	
4-Nitroaniline	BXE0865-BLK2	ND	ug/L	5.0	0.87	
Nitrobenzene	BXE0865-BLK2	ND	ug/L	2.0	0.26	
N-Nitrosodimethylamine	BXE0865-BLK2	ND	ug/L	2.0	0.61	
N-Nitrosodi-N-propylamine	BXE0865-BLK2	ND	ug/L	2.0	1.3	

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Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0865						
N-Nitrosodiphenylamine	BXE0865-BLK2	ND	ug/L	2.0	0.44	
Phenanthrene	BXE0865-BLK2	ND	ug/L	2.0	0.20	
Pyrene	BXE0865-BLK2	ND	ug/L	2.0	0.26	
1,2,4-Trichlorobenzene	BXE0865-BLK2	ND	ug/L	2.0	0.27	
4-Chloro-3-methylphenol	BXE0865-BLK2	ND	ug/L	5.0	0.40	
2-Chlorophenol	BXE0865-BLK2	ND	ug/L	2.0	0.37	
2,4-Dichlorophenol	BXE0865-BLK2	ND	ug/L	2.0	0.43	
2,4-Dimethylphenol	BXE0865-BLK2	ND	ug/L	2.0	0.20	
4,6-Dinitro-2-methylphenol	BXE0865-BLK2	ND	ug/L	10	0.34	
2,4-Dinitrophenol	BXE0865-BLK2	ND	ug/L	10	0.20	
2-Methylphenol	BXE0865-BLK2	ND	ug/L	2.0	1.0	
3- & 4-Methylphenol	BXE0865-BLK2	ND	ug/L	2.0	1.6	
Total Methylphenol	BXE0865-BLK2	ND	ug/L	4.0	2.6	
2-Nitrophenol	BXE0865-BLK2	ND	ug/L	2.0	0.28	
4-Nitrophenol	BXE0865-BLK2	ND	ug/L	2.0	0.73	
Pentachlorophenol	BXE0865-BLK2	ND	ug/L	10	0.79	
Phenol	BXE0865-BLK2	ND	ug/L	2.0	0.20	
2,4,5-Trichlorophenol	BXE0865-BLK2	ND	ug/L	5.0	0.31	
2,4,6-Trichlorophenol	BXE0865-BLK2	ND	ug/L	5.0	0.60	
Acetophenone	BXE0865-BLK2	ND	ug/L	10	3.0	
2-Acetylaminofluorene	BXE0865-BLK2	ND	ug/L	10	0.38	
Acrolein, dimethyl acetal	BXE0865-BLK2	ND	ug/L	40	7.7	
4-Aminobiphenyl	BXE0865-BLK2	ND	ug/L	20	5.2	
Aramite	BXE0865-BLK2	ND	ug/L	10	2.3	
Benefin	BXE0865-BLK2	ND	ug/L	10	0.88	
Carbazole	BXE0865-BLK2	ND	ug/L	2.0	0.20	
cis-Chlordane	BXE0865-BLK2	ND	ug/L	5.0	0.30	
trans-Chlordane	BXE0865-BLK2	ND	ug/L	5.0	0.40	
Chlorobenzilate	BXE0865-BLK2	ND	ug/L	10	0.29	
1-Chloronaphthalene	BXE0865-BLK2	ND	ug/L	10	0.28	
cis-Diallate	BXE0865-BLK2	ND	ug/L	5.0	0.21	
trans-Diallate	BXE0865-BLK2	ND	ug/L	5.0	0.22	
Diallate	BXE0865-BLK2	ND	ug/L	10	0.42	
2,6-Dichlorophenol	BXE0865-BLK2	ND	ug/L	10	1.3	

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0865						
Dimethoate	BXE0865-BLK2	ND	ug/L	20	0.46	
p-(Dimethylamino)azobenzene	BXE0865-BLK2	ND	ug/L	10	0.54	
7,12-Dimethylbenz[a]anthracene	BXE0865-BLK2	ND	ug/L	10	0.41	
3,3'-Dimethylbenzidine	BXE0865-BLK2	ND	ug/L	20	5.4	
a,a-Dimethylphenethylamine	BXE0865-BLK2	ND	ug/L	20	2.5	
Dimethyl sulfoxide (DMSO)	BXE0865-BLK2	ND	ug/L	10	1.0	
1,3-Dinitrobenzene	BXE0865-BLK2	ND	ug/L	10	0.23	
Dinoseb	BXE0865-BLK2	ND	ug/L	10	0.61	
Diphenylamine	BXE0865-BLK2	ND	ug/L	10	0.20	
Disulfoton	BXE0865-BLK2	ND	ug/L	10	0.44	
Ethyl methacrylate	BXE0865-BLK2	ND	ug/L	10	0.19	
Ethyl methanesulfonate	BXE0865-BLK2	ND	ug/L	10	0.26	
Ethyl Parathion	BXE0865-BLK2	ND	ug/L	10	0.31	
Famphur	BXE0865-BLK2	ND	ug/L	20	8.3	
Hexachlorophene	BXE0865-BLK2	ND	ug/L	200	35	
Hexachloropropene	BXE0865-BLK2	ND	ug/L	20	0.46	
Isodrin	BXE0865-BLK2	ND	ug/L	10	0.31	
cis-Isosafrole	BXE0865-BLK2	ND	ug/L	5.0	0.41	
trans-Isosafrole	BXE0865-BLK2	ND	ug/L	5.0	0.36	
Isosafrole	BXE0865-BLK2	ND	ug/L	10	0.76	
Kepone	BXE0865-BLK2	ND	ug/L	20	1.5	
Methapyrilene	BXE0865-BLK2	ND	ug/L	10	1.5	
Methoxychlor	BXE0865-BLK2	ND	ug/L	10	0.40	
3-Methylcholanthrene	BXE0865-BLK2	ND	ug/L	10	0.56	
Methyl methacrylate	BXE0865-BLK2	ND	ug/L	40	22	
Methyl methanesulfonate	BXE0865-BLK2	ND	ug/L	10	0.42	
1-Methylnaphthalene	BXE0865-BLK2	ND	ug/L	10	0.41	
Methyl parathion	BXE0865-BLK2	ND	ug/L	10	0.32	
N-Methyl-2-pyrrolidinone	BXE0865-BLK2	ND	ug/L	10	1.6	
1,4-Naphthoquinone	BXE0865-BLK2	ND	ug/L	20	2.1	
1-Naphthylamine	BXE0865-BLK2	ND	ug/L	20	5.3	
5-Nitro-o-toluidine	BXE0865-BLK2	ND	ug/L	10	0.44	
4-Nitroquinoline 1-oxide	BXE0865-BLK2	ND	ug/L	20	12	
N-Nitrosodibutylamine	BXE0865-BLK2	ND	ug/L	10	0.41	

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Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0865						
N-Nitrosodiethylamine	BXE0865-BLK2	ND	ug/L	10	0.43	
N-Nitrosomethylethylamine	BXE0865-BLK2	ND	ug/L	10	0.37	
N-Nitrosomorpholine	BXE0865-BLK2	ND	ug/L	10	0.35	
N-Nitrosopiperidine	BXE0865-BLK2	ND	ug/L	10	0.44	
N-Nitrosopyrrolidine	BXE0865-BLK2	ND	ug/L	10	0.44	
Pentachlorobenzene	BXE0865-BLK2	ND	ug/L	10	0.25	
Pentachloroethane	BXE0865-BLK2	ND	ug/L	20	1.0	
Pentachloronitrobenzene	BXE0865-BLK2	ND	ug/L	10	0.30	
Phenacetin	BXE0865-BLK2	ND	ug/L	10	0.20	
1,4-Phenylenediamine	BXE0865-BLK2	ND	ug/L	20	2.2	
Phorate	BXE0865-BLK2	ND	ug/L	10	0.34	
2-Picoline	BXE0865-BLK2	ND	ug/L	10	0.23	
PCB-1262	BXE0865-BLK2	ND	ug/L	50	25	
PCB-1268	BXE0865-BLK2	ND	ug/L	50	25	
PCB-1260	BXE0865-BLK2	ND	ug/L	50	25	
PCB-1254	BXE0865-BLK2	ND	ug/L	50	25	
PCB-1248	BXE0865-BLK2	ND	ug/L	50	25	
PCB-1242	BXE0865-BLK2	ND	ug/L	50	25	
PCB-1232	BXE0865-BLK2	ND	ug/L	50	25	
PCB-1221	BXE0865-BLK2	ND	ug/L	50	25	
PCB-1016	BXE0865-BLK2	ND	ug/L	50	25	
Total PCB's (Summation)	BXE0865-BLK2	ND	ug/L	50	25	
Prometryn	BXE0865-BLK2	ND	ug/L	10	1.7	
Pronamide	BXE0865-BLK2	ND	ug/L	10	0.29	
Propyleneglycol monomethyl ether acetate	BXE0865-BLK2	ND	ug/L	10	4.2	
Prowl	BXE0865-BLK2	ND	ug/L	10	0.83	
Pyridine	BXE0865-BLK2	ND	ug/L	10	0.27	
Safrole	BXE0865-BLK2	ND	ug/L	10	0.33	
Sulfotep	BXE0865-BLK2	ND	ug/L	10	0.43	
1,2,4,5-Tetrachlorobenzene	BXE0865-BLK2	ND	ug/L	10	0.39	
2,3,4,5-Tetrachlorophenol	BXE0865-BLK2	ND	ug/L	10	5.0	
2,3,4,6-Tetrachlorophenol	BXE0865-BLK2	ND	ug/L	10	4.7	
Thionazin	BXE0865-BLK2	ND	ug/L	10	0.21	
2-Toluidine	BXE0865-BLK2	ND	ug/L	10	0.49	

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Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0865						
Toxaphene	BXE0865-BLK2	ND	ug/L	100	50	
o,o,o-Triethylphosphorothioate	BXE0865-BLK2	ND	ug/L	10	0.42	
1,3,5-Trinitrobenzene	BXE0865-BLK2	ND	ug/L	10	0.30	
Tris(hydroxymethyl)nitromethane	BXE0865-BLK2	ND	ug/L	50	5.0	
2-Fluorophenol (Surrogate)	BXE0865-BLK2	33.1	%	30 - 120 (LCL - UCL)		
Phenol-d5 (Surrogate)	BXE0865-BLK2	27.6	%	12 - 110 (LCL - UCL)		
Nitrobenzene-d5 (Surrogate)	BXE0865-BLK2	70.5	%	60 - 130 (LCL - UCL)		
2-Fluorobiphenyl (Surrogate)	BXE0865-BLK2	64.6	%	55 - 125 (LCL - UCL)		
2,4,6-Tribromophenol (Surrogate)	BXE0865-BLK2	54.3	%	40 - 150 (LCL - UCL)		
p-Terphenyl-d14 (Surrogate)	BXE0865-BLK2	58.8	%	40 - 150 (LCL - UCL)		

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Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXE0865										
Acenaphthene	BXE0865-BS2	LCS	44.785	50.000	ug/L	89.6		50 - 120		
1,4-Dichlorobenzene	BXE0865-BS2	LCS	40.895	50.000	ug/L	81.8		50 - 120		
2,4-Dinitrotoluene	BXE0865-BS2	LCS	55.542	50.000	ug/L	111		50 - 120		
Hexachlorobenzene	BXE0865-BS2	LCS	46.783	50.000	ug/L	93.6		60 - 120		
Hexachlorobutadiene	BXE0865-BS2	LCS	31.864	50.000	ug/L	63.7		40 - 110		
Hexachloroethane	BXE0865-BS2	LCS	40.003	50.000	ug/L	80.0		40 - 120		
Nitrobenzene	BXE0865-BS2	LCS	41.448	50.000	ug/L	82.9		50 - 120		
N-Nitrosodi-N-propylamine	BXE0865-BS2	LCS	42.893	50.000	ug/L	85.8		50 - 120		
Pyrene	BXE0865-BS2	LCS	47.899	50.000	ug/L	95.8		40 - 140		
1,2,4-Trichlorobenzene	BXE0865-BS2	LCS	39.925	50.000	ug/L	79.9		45 - 120		
4-Chloro-3-methylphenol	BXE0865-BS2	LCS	49.994	50.000	ug/L	100		50 - 120		
2-Chlorophenol	BXE0865-BS2	LCS	39.828	50.000	ug/L	79.7		50 - 120		
2-Methylphenol	BXE0865-BS2	LCS	37.510	50.000	ug/L	75.0		40 - 110		
3- & 4-Methylphenol	BXE0865-BS2	LCS	82.809	100.00	ug/L	82.8		40 - 110		
4-Nitrophenol	BXE0865-BS2	LCS	24.978	50.000	ug/L	50.0		10 - 110		
Pentachlorophenol	BXE0865-BS2	LCS	43.097	50.000	ug/L	86.2		30 - 120		
Phenol	BXE0865-BS2	LCS	19.710	50.000	ug/L	39.4		20 - 110		
2,4,6-Trichlorophenol	BXE0865-BS2	LCS	47.899	50.000	ug/L	95.8		54 - 120		
Pyridine	BXE0865-BS2	LCS	20.389	50.000	ug/L	40.8		1 - 110		
2-Fluorophenol (Surrogate)	BXE0865-BS2	LCS	40.944	80.000	ug/L	51.2		30 - 120		
Phenol-d5 (Surrogate)	BXE0865-BS2	LCS	33.145	80.000	ug/L	41.4		12 - 110		
Nitrobenzene-d5 (Surrogate)	BXE0865-BS2	LCS	75.097	80.000	ug/L	93.9		60 - 130		
2-Fluorobiphenyl (Surrogate)	BXE0865-BS2	LCS	57.492	80.000	ug/L	71.9		55 - 125		
2,4,6-Tribromophenol (Surrogate)	BXE0865-BS2	LCS	65.950	80.000	ug/L	82.4		40 - 150		
p-Terphenyl-d14 (Surrogate)	BXE0865-BS2	LCS	36.763	40.000	ug/L	91.9		40 - 150		

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Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXE0865		Used client sample: N								
Acenaphthene	MS	408395-10RE	ND	43.258	50.000	ug/L		86.5		50 - 120
	MSD	408395-10RE	ND	42.602	50.000	ug/L	1.5	85.2	30	50 - 120
1,4-Dichlorobenzene	MS	408395-10RE	ND	37.277	50.000	ug/L		74.6		47 - 120
	MSD	408395-10RE	ND	38.325	50.000	ug/L	2.8	76.6	30	47 - 120
2,4-Dinitrotoluene	MS	408395-10RE	ND	45.734	50.000	ug/L		91.5		50 - 130
	MSD	408395-10RE	ND	47.530	50.000	ug/L	3.9	95.1	30	50 - 130
Hexachlorobenzene	MS	408395-10RE	ND	45.197	50.000	ug/L		90.4		62 - 120
	MSD	408395-10RE	ND	45.357	50.000	ug/L	0.4	90.7	30	62 - 120
Hexachlorobutadiene	MS	408395-10RE	ND	30.288	50.000	ug/L		60.6		40 - 110
	MSD	408395-10RE	ND	29.866	50.000	ug/L	1.4	59.7	30	40 - 110
Hexachloroethane	MS	408395-10RE	ND	34.762	50.000	ug/L		69.5		40 - 120
	MSD	408395-10RE	ND	37.035	50.000	ug/L	6.3	74.1	30	40 - 120
Nitrobenzene	MS	408395-10RE	ND	40.896	50.000	ug/L		81.8		50 - 120
	MSD	408395-10RE	ND	39.498	50.000	ug/L	3.5	79.0	30	50 - 120
N-Nitrosodi-N-propylamine	MS	408395-10RE	ND	33.264	50.000	ug/L		66.5		50 - 120
	MSD	408395-10RE	ND	37.151	50.000	ug/L	11.0	74.3	30	50 - 120
Pyrene	MS	408395-10RE	ND	36.374	50.000	ug/L		72.7		40 - 140
	MSD	408395-10RE	ND	41.642	50.000	ug/L	13.5	83.3	30	40 - 140
1,2,4-Trichlorobenzene	MS	408395-10RE	ND	37.018	50.000	ug/L		74.0		43 - 120
	MSD	408395-10RE	ND	37.267	50.000	ug/L	0.7	74.5	30	43 - 120
4-Chloro-3-methylphenol	MS	408395-10RE	ND	41.251	50.000	ug/L		82.5		50 - 120
	MSD	408395-10RE	ND	42.632	50.000	ug/L	3.3	85.3	30	50 - 120
2-Chlorophenol	MS	408395-10RE	ND	33.034	50.000	ug/L		66.1		50 - 120
	MSD	408395-10RE	ND	36.074	50.000	ug/L	8.8	72.1	30	50 - 120
2-Methylphenol	MS	408395-10RE	ND	29.184	50.000	ug/L		58.4		40 - 110
	MSD	408395-10RE	ND	33.853	50.000	ug/L	14.8	67.7	30	40 - 110
3- & 4-Methylphenol	MS	408395-10RE	ND	60.547	100.00	ug/L		60.5		40 - 110
	MSD	408395-10RE	ND	69.617	100.00	ug/L	13.9	69.6	30	40 - 110
4-Nitrophenol	MS	408395-10RE	ND	20.803	50.000	ug/L		41.6		10 - 110
	MSD	408395-10RE	ND	20.273	50.000	ug/L	2.6	40.5	30	10 - 110
Pentachlorophenol	MS	408395-10RE	ND	40.810	50.000	ug/L		81.6		30 - 120
	MSD	408395-10RE	ND	41.662	50.000	ug/L	2.1	83.3	30	30 - 120
Phenol	MS	408395-10RE	ND	15.754	50.000	ug/L		31.5		20 - 110
	MSD	408395-10RE	ND	17.761	50.000	ug/L	12.0	35.5	30	20 - 110
2,4,6-Trichlorophenol	MS	408395-10RE	ND	43.747	50.000	ug/L		87.5		50 - 120
	MSD	408395-10RE	ND	45.241	50.000	ug/L	3.4	90.5	30	50 - 120

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BXE0865		Used client sample: N								
Pyridine	MS	408395-10RE'	ND	21.715	50.000	ug/L		43.4		1 - 110
	MSD	408395-10RE'	ND	19.963	50.000	ug/L	8.4	39.9	30	1 - 110
2-Fluorophenol (Surrogate)	MS	408395-10RE'	ND	34.416	80.000	ug/L		43.0		30 - 120
	MSD	408395-10RE'	ND	37.267	80.000	ug/L	8.0	46.6		30 - 120
Phenol-d5 (Surrogate)	MS	408395-10RE'	ND	26.582	80.000	ug/L		33.2		12 - 110
	MSD	408395-10RE'	ND	30.012	80.000	ug/L	12.1	37.5		12 - 110
Nitrobenzene-d5 (Surrogate)	MS	408395-10RE'	ND	62.170	80.000	ug/L		77.7		60 - 130
	MSD	408395-10RE'	ND	67.240	80.000	ug/L	7.8	84.0		60 - 130
2-Fluorobiphenyl (Surrogate)	MS	408395-10RE'	ND	54.125	80.000	ug/L		67.7		55 - 125
	MSD	408395-10RE'	ND	56.648	80.000	ug/L	4.6	70.8		55 - 125
2,4,6-Tribromophenol (Surrogate)	MS	408395-10RE'	ND	61.133	80.000	ug/L		76.4		40 - 150
	MSD	408395-10RE'	ND	65.029	80.000	ug/L	6.2	81.3		40 - 150
p-Terphenyl-d14 (Surrogate)	MS	408395-10RE'	ND	28.838	40.000	ug/L		72.1		40 - 150
	MSD	408395-10RE'	ND	30.788	40.000	ug/L	6.5	77.0		40 - 150

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0865						
1-Acetyl-2-thiourea	BXE0865-BLK2	0	ug/L			
2-Aminoanthraquinone	BXE0865-BLK2	0	ug/L			
3-Amino-9-ethylcarbazole	BXE0865-BLK2	0	ug/L			
Anilazine	BXE0865-BLK2	0	ug/L			
o-Anisidine	BXE0865-BLK2	0	ug/L			
Azinphos methyl	BXE0865-BLK2	0	ug/L			
Barban	BXE0865-BLK2	0	ug/L			
p-Benzoquinone	BXE0865-BLK2	0	ug/L			
Bromoxynil	BXE0865-BLK2	0	ug/L			
Captafol	BXE0865-BLK2	0	ug/L			
Captan	BXE0865-BLK2	0	ug/L			
Carbaryl	BXE0865-BLK2	0	ug/L			
Carbofuran	BXE0865-BLK2	0	ug/L			
Carbophenothion	BXE0865-BLK2	0	ug/L			
Chlorfenvinphos	BXE0865-BLK2	0	ug/L			
5-Chloro-2-methylaniline	BXE0865-BLK2	0	ug/L			
3-(Chloromethyl) pyridine hydrochloride	BXE0865-BLK2	0	ug/L			
4-Chloro-1,2-phenylenediamine	BXE0865-BLK2	0	ug/L			
4-Chloro-1,3-phenylenediamine	BXE0865-BLK2	0	ug/L			
Coumaphos	BXE0865-BLK2	0	ug/L			
p-Cresidine	BXE0865-BLK2	0	ug/L			
Crotoxypfos	BXE0865-BLK2	0	ug/L			
2-Cyclohexyl-4,6-dinitrophenol	BXE0865-BLK2	0	ug/L			
Demeton-O	BXE0865-BLK2	0	ug/L			
Demeton-S	BXE0865-BLK2	0	ug/L			
2,4-Diaminotoluene	BXE0865-BLK2	0	ug/L			
Dibenz[a,j]acridine	BXE0865-BLK2	0	ug/L			
Dibenzo[a,e]pyrene	BXE0865-BLK2	0	ug/L			
1,2-Dibromo-3-chloropropane	BXE0865-BLK2	0	ug/L			
Dichlone	BXE0865-BLK2	0	ug/L			
Dichlorvos	BXE0865-BLK2	0	ug/L			
Dicrotophos	BXE0865-BLK2	0	ug/L			
Diethylstilbestrol	BXE0865-BLK2	0	ug/L			
Diethyl sulfate	BXE0865-BLK2	0	ug/L			

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0865						
Dihydrosafrole	BXE0865-BLK2	0	ug/L			
3,3'-Dimethoxybenzidine	BXE0865-BLK2	0	ug/L			
1,2-Dinitrobenzene	BXE0865-BLK2	0	ug/L			
1,4-Dinitrobenzene	BXE0865-BLK2	0	ug/L			
Dinocap	BXE0865-BLK2	0	ug/L			
Dioxathion	BXE0865-BLK2	0	ug/L			
5,5-Diphenylhydantoin	BXE0865-BLK2	0	ug/L			
Endrin ketone	BXE0865-BLK2	0	ug/L			
EPN	BXE0865-BLK2	0	ug/L			
Ethion	BXE0865-BLK2	0	ug/L			
Ethyl carbamate	BXE0865-BLK2	0	ug/L			
Fensulfothion	BXE0865-BLK2	0	ug/L			
Fenthion	BXE0865-BLK2	0	ug/L			
Fluchloralin	BXE0865-BLK2	0	ug/L			
Hexamethylphosphoramide	BXE0865-BLK2	0	ug/L			
Hydroquinone	BXE0865-BLK2	0	ug/L			
Leptophos	BXE0865-BLK2	0	ug/L			
Malathion	BXE0865-BLK2	0	ug/L			
Maleic Anhydride	BXE0865-BLK2	0	ug/L			
Mestranol	BXE0865-BLK2	0	ug/L			
4,4'-Methylenebis(2-chloroaniline)	BXE0865-BLK2	0	ug/L			
4,4'-Methylenebis[N,N-dimethylaniline]	BXE0865-BLK2	0	ug/L			
Mevinphos	BXE0865-BLK2	0	ug/L			
Mexacarbate	BXE0865-BLK2	0	ug/L			
Mirex	BXE0865-BLK2	0	ug/L			
Monocrotophos	BXE0865-BLK2	0	ug/L			
Naled	BXE0865-BLK2	0	ug/L			
Nicotine	BXE0865-BLK2	0	ug/L			
5-Nitroacenaphthene	BXE0865-BLK2	0	ug/L			
5-Nitro-o-anisidine	BXE0865-BLK2	0	ug/L			
4-Nitrobiphenyl	BXE0865-BLK2	0	ug/L			
Nitrophen	BXE0865-BLK2	0	ug/L			
Octamethylpyrophosphoramide	BXE0865-BLK2	0	ug/L			
4,4'-Oxydianiline	BXE0865-BLK2	0	ug/L			

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0865						
Phenobarbital	BXE0865-BLK2	0	ug/L			
Phosalone	BXE0865-BLK2	0	ug/L			
Phosmet	BXE0865-BLK2	0	ug/L			
Phosphamidon	BXE0865-BLK2	0	ug/L			
Phthalic anhydride	BXE0865-BLK2	0	ug/L			
Piperonyl sulfoxide	BXE0865-BLK2	0	ug/L			
Propylthiouracil	BXE0865-BLK2	0	ug/L			
Resorcinol	BXE0865-BLK2	0	ug/L			
Strychnine	BXE0865-BLK2	0	ug/L			
Sulfallate	BXE0865-BLK2	0	ug/L			
Terbufos	BXE0865-BLK2	0	ug/L			
Tetrachlorvinphos	BXE0865-BLK2	0	ug/L			
TEPP	BXE0865-BLK2	0	ug/L			
Thiophenol (Benzenethiol)	BXE0865-BLK2	0	ug/L			
Toluene 2,4-diisocyanate	BXE0865-BLK2	0	ug/L			
Trifluralin	BXE0865-BLK2	0	ug/L			
2,4,5-Trimethylaniline	BXE0865-BLK2	0	ug/L			
Trimethyl phosphate	BXE0865-BLK2	0	ug/L			
Tris(2,3-dibromopropyl) phosphate	BXE0865-BLK2	0	ug/L			
Tri-p-tolyl phosphate	BXE0865-BLK2	0	ug/L			

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0883						
Acenaphthene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Acenaphthylene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Anthracene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Benzo[a]anthracene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Benzo[b]fluoranthene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Benzo[k]fluoranthene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Benzo[a]pyrene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Benzo[g,h,i]perylene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Chrysene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Dibenzo[a,h]anthracene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Fluoranthene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Fluorene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Indeno[1,2,3-cd]pyrene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Naphthalene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Phenanthrene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Pyrene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Nitrobenzene-d5 (Surrogate)	BXE0883-BLK1	99.7	%	42 - 130 (LCL - UCL)		
2-Fluorobiphenyl (Surrogate)	BXE0883-BLK1	88.9	%	50 - 116 (LCL - UCL)		
p-Terphenyl-d14 (Surrogate)	BXE0883-BLK1	89.1	%	43 - 134 (LCL - UCL)		

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Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXE0883										
Acenaphthene	BXE0883-BS1	LCS	0.93000	1.0000	ug/L	93.0		60 - 110		
Acenaphthylene	BXE0883-BS1	LCS	0.93000	1.0000	ug/L	93.0		56 - 120		
Anthracene	BXE0883-BS1	LCS	0.96000	1.0000	ug/L	96.0		57 - 128		
Benzo[a]anthracene	BXE0883-BS1	LCS	0.96000	1.0000	ug/L	96.0		64 - 130		
Benzo[b]fluoranthene	BXE0883-BS1	LCS	1.1000	1.0000	ug/L	110		50 - 130		
Benzo[k]fluoranthene	BXE0883-BS1	LCS	1.0500	1.0000	ug/L	105		60 - 120		
Benzo[a]pyrene	BXE0883-BS1	LCS	1.0200	1.0000	ug/L	102		60 - 125		
Benzo[g,h,i]perylene	BXE0883-BS1	LCS	0.94000	1.0000	ug/L	94.0		44 - 120		
Chrysene	BXE0883-BS1	LCS	0.94000	1.0000	ug/L	94.0		60 - 110		
Dibenzo[a,h]anthracene	BXE0883-BS1	LCS	0.98000	1.0000	ug/L	98.0		40 - 120		
Fluoranthene	BXE0883-BS1	LCS	0.92000	1.0000	ug/L	92.0		60 - 120		
Fluorene	BXE0883-BS1	LCS	0.95000	1.0000	ug/L	95.0		60 - 120		
Indeno[1,2,3-cd]pyrene	BXE0883-BS1	LCS	1.0100	1.0000	ug/L	101		40 - 130		
Naphthalene	BXE0883-BS1	LCS	0.92000	1.0000	ug/L	92.0		60 - 110		
Phenanthrene	BXE0883-BS1	LCS	0.92000	1.0000	ug/L	92.0		60 - 120		
Pyrene	BXE0883-BS1	LCS	0.85000	1.0000	ug/L	85.0		50 - 125		
Nitrobenzene-d5 (Surrogate)	BXE0883-BS1	LCS	3.8400	4.0000	ug/L	96.0		42 - 130		
2-Fluorobiphenyl (Surrogate)	BXE0883-BS1	LCS	3.5400	4.0000	ug/L	88.5		50 - 116		
p-Terphenyl-d14 (Surrogate)	BXE0883-BS1	LCS	3.4100	4.0000	ug/L	85.2		43 - 134		

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Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

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 a QC Batch ID: BXE0883 and a list of 25 polynuclear aromatic hydrocarbons with their respective test results and recovery percentages.

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Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: BXE0883		Used client sample: N									
p-Terphenyl-d14 (Surrogate)	MS	1407468-52	ND	3.6260	4.0000	ug/L		90.6		43 - 134	
	MSD	1407468-52	ND	3.3174	4.0000	ug/L	8.9	82.9		43 - 134	

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0184						
Chloride	BXE0184-BLK1	0.25400	mg/L	0.50	0.067	J
Nitrate as N	BXE0184-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXE0184-BLK1	0.32900	mg/L	1.0	0.18	J
QC Batch ID: BXE0185						
Chloride	BXE0185-BLK1	0.21800	mg/L	0.50	0.067	J
Nitrate as N	BXE0185-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXE0185-BLK1	0.38000	mg/L	1.0	0.18	J
QC Batch ID: BXE0204						
Bicarbonate	BXE0204-BLK1	ND	mg/L	5.0	5.0	
Carbonate	BXE0204-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	BXE0204-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXE0230						
Bicarbonate	BXE0230-BLK1	ND	mg/L	5.0	5.0	
Carbonate	BXE0230-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	BXE0230-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXE0298						
ortho-Phosphate as P	BXE0298-BLK1	ND	mg/L	0.020	0.0040	
QC Batch ID: BXE0299						
Nitrite as N	BXE0299-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXE0300						
Nitrite as N	BXE0300-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXE0402						
Total Dissolved Solids @ 180 C	BXE0402-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXE0403						
Total Dissolved Solids @ 180 C	BXE0403-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXE0736						
Total Recoverable Calcium	BXE0736-BLK2	ND	mg/L	0.10	0.014	
Total Recoverable Magnesium	BXE0736-BLK1	0.038250	mg/L	0.050	0.019	J
Total Recoverable Sodium	BXE0736-BLK2	ND	mg/L	0.50	0.017	
Total Recoverable Potassium	BXE0736-BLK2	ND	mg/L	1.0	0.10	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE1082						
Total Recoverable Calcium	BXE1082-BLK1	ND	mg/L	0.10	0.014	
Total Recoverable Magnesium	BXE1082-BLK1	ND	mg/L	0.050	0.019	
Total Recoverable Sodium	BXE1082-BLK1	0.050735	mg/L	0.50	0.017	J
Total Recoverable Potassium	BXE1082-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXE1273						
Perchlorate	BXE1273-BLK1	ND	ug/L	4.0	0.45	
QC Batch ID: BXE1274						
Perchlorate	BXE1274-BLK1	ND	ug/L	4.0	0.45	
QC Batch ID: BXE1479						
Chloride	BXE1479-BLK1	0.20900	mg/L	0.50	0.067	J
Nitrate as N	BXE1479-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXE1479-BLK1	0.33000	mg/L	1.0	0.18	J

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXE0184										
Chloride	BXE0184-BS1	LCS	50.689	50.000	mg/L	101		90 - 110		
Nitrate as N	BXE0184-BS1	LCS	5.1380	5.0000	mg/L	103		90 - 110		
Sulfate	BXE0184-BS1	LCS	101.64	100.00	mg/L	102		90 - 110		
QC Batch ID: BXE0185										
Chloride	BXE0185-BS1	LCS	50.927	50.000	mg/L	102		90 - 110		
Nitrate as N	BXE0185-BS1	LCS	5.1640	5.0000	mg/L	103		90 - 110		
Sulfate	BXE0185-BS1	LCS	101.96	100.00	mg/L	102		90 - 110		
QC Batch ID: BXE0204										
Total Alkalinity as CaCO3	BXE0204-BS3	LCS	97.820	100.00	mg/L	97.8		90 - 110		
pH	BXE0204-BS2	LCS	7.0300	7.0000	pH Units	100		95 - 105		
QC Batch ID: BXE0230										
Total Alkalinity as CaCO3	BXE0230-BS3	LCS	99.490	100.00	mg/L	99.5		90 - 110		
pH	BXE0230-BS2	LCS	7.0300	7.0000	pH Units	100		95 - 105		
QC Batch ID: BXE0298										
ortho-Phosphate as P	BXE0298-BS1	LCS	0.20893	0.20000	mg/L	104		90 - 110		
QC Batch ID: BXE0299										
Nitrite as N	BXE0299-BS1	LCS	0.53010	0.50000	mg/L	106		90 - 110		
QC Batch ID: BXE0300										
Nitrite as N	BXE0300-BS1	LCS	0.52762	0.50000	mg/L	106		90 - 110		
QC Batch ID: BXE0402										
Total Dissolved Solids @ 180 C	BXE0402-BS1	LCS	535.00	586.00	mg/L	91.3		90 - 110		
QC Batch ID: BXE0403										
Total Dissolved Solids @ 180 C	BXE0403-BS1	LCS	535.00	586.00	mg/L	91.3		90 - 110		
QC Batch ID: BXE0736										
Total Recoverable Calcium	BXE0736-BS2	LCS	10.161	10.000	mg/L	102		85 - 115		
Total Recoverable Magnesium	BXE0736-BS1	LCS	10.194	10.000	mg/L	102		85 - 115		
Total Recoverable Sodium	BXE0736-BS2	LCS	10.330	10.000	mg/L	103		85 - 115		
Total Recoverable Potassium	BXE0736-BS2	LCS	10.220	10.000	mg/L	102		85 - 115		
QC Batch ID: BXE1082										
Total Recoverable Calcium	BXE1082-BS1	LCS	9.9218	10.000	mg/L	99.2		85 - 115		
Total Recoverable Magnesium	BXE1082-BS1	LCS	10.316	10.000	mg/L	103		85 - 115		
Total Recoverable Sodium	BXE1082-BS1	LCS	10.191	10.000	mg/L	102		85 - 115		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXE1082										
Total Recoverable Potassium	BXE1082-BS1	LCS	10.061	10.000	mg/L	101		85 - 115		
QC Batch ID: BXE1273										
Perchlorate	BXE1273-BS1	LCS	10.222	10.000	ug/L	102		85 - 115		
QC Batch ID: BXE1274										
Perchlorate	BXE1274-BS1	LCS	10.310	10.000	ug/L	103		85 - 115		
QC Batch ID: BXE1479										
Chloride	BXE1479-BS1	LCS	51.939	50.000	mg/L	104		90 - 110		
Nitrate as N	BXE1479-BS1	LCS	5.2540	5.0000	mg/L	105		90 - 110		
Sulfate	BXE1479-BS1	LCS	104.11	100.00	mg/L	104		90 - 110		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes QC Batch IDs: BXE0184, BXE0185, BXE0204, BXE0230, BXE0298, BXE0299.

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
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 Qualls. Includes QC batches BXE0299, BXE0300, BXE0402, BXE0403, BXE0736, and BXE1082.

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXE1273		Used client sample: Y - Description: MW-6, 05/01/2014 09:45								
Perchlorate	DUP	1409680-07	2.7120	2.5910		ug/L	4.6		15	J
	MS	1409680-07	2.7120	12.848	10.101	ug/L		100	80 - 120	
	MSD	1409680-07	2.7120	13.021	10.101	ug/L	1.3	102	15	80 - 120
QC Batch ID: BXE1274		Used client sample: Y - Description: MW-10, 05/01/2014 14:11								
Perchlorate	DUP	1409680-12	4.1534	4.1391		ug/L	0.3		15	
	MS	1409680-12	4.1534	15.163	10.101	ug/L		109	80 - 120	
	MSD	1409680-12	4.1534	15.654	10.101	ug/L	3.2	114	15	80 - 120
QC Batch ID: BXE1479		Used client sample: N								
Chloride	DUP	1410927-01	31.268	31.182		mg/L	0.3		10	
	MS	1410927-01	31.268	86.327	50.505	mg/L		109	80 - 120	
	MSD	1410927-01	31.268	86.321	50.505	mg/L	0.0	109	10	80 - 120
Nitrate as N	DUP	1410927-01	0.48400	0.46100		mg/L	4.9		10	
	MS	1410927-01	0.48400	5.8990	5.0505	mg/L		107	80 - 120	
	MSD	1410927-01	0.48400	5.9182	5.0505	mg/L	0.3	108	10	80 - 120
Sulfate	DUP	1410927-01	25.924	25.960		mg/L	0.1		10	
	MS	1410927-01	25.924	137.16	101.01	mg/L		110	80 - 120	
	MSD	1410927-01	25.924	137.24	101.01	mg/L	0.1	110	10	80 - 120

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0292						
Hexavalent Chromium	BXE0292-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BXE0293						
Hexavalent Chromium	BXE0293-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BXE0736						
Total Recoverable Iron	BXE0736-BLK2	36.928	ug/L	50	6.5	J
QC Batch ID: BXE0841						
Total Recoverable Arsenic	BXE0841-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	BXE0841-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	BXE0841-BLK1	ND	ug/L	1.0	0.10	
QC Batch ID: BXE0842						
Total Recoverable Arsenic	BXE0842-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	BXE0842-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	BXE0842-BLK1	ND	ug/L	1.0	0.10	
QC Batch ID: BXE1082						
Total Recoverable Iron	BXE1082-BLK1	7.0851	ug/L	50	6.5	J

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXE0292										
Hexavalent Chromium	BXE0292-BS1	LCS	0.050484	0.050000	mg/L	101		85 - 115		
QC Batch ID: BXE0293										
Hexavalent Chromium	BXE0293-BS1	LCS	0.054005	0.050000	mg/L	108		85 - 115		
QC Batch ID: BXE0736										
Total Recoverable Iron	BXE0736-BS2	LCS	1133.3	1000.0	ug/L	113		85 - 115		
QC Batch ID: BXE0841										
Total Recoverable Arsenic	BXE0841-BS1	LCS	100.94	100.00	ug/L	101		85 - 115		
Total Recoverable Chromium	BXE0841-BS1	LCS	42.968	40.000	ug/L	107		85 - 115		
Total Recoverable Lead	BXE0841-BS1	LCS	104.36	100.00	ug/L	104		85 - 115		
QC Batch ID: BXE0842										
Total Recoverable Arsenic	BXE0842-BS1	LCS	108.77	100.00	ug/L	109		85 - 115		
Total Recoverable Chromium	BXE0842-BS1	LCS	43.154	40.000	ug/L	108		85 - 115		
Total Recoverable Lead	BXE0842-BS1	LCS	107.31	100.00	ug/L	107		85 - 115		
QC Batch ID: BXE1082										
Total Recoverable Iron	BXE1082-BS1	LCS	1073.1	1000.0	ug/L	107		85 - 115		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Control Limits Percent Recovery, Lab Quails. Includes QC Batch IDs: BXE0292, BXE0293, BXE0736, BXE0841, BXE0842, BXE1082.

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 16:35
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A02 The difference between duplicate readings is less than the PQL.
- S05 The sample holding time was exceeded.
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.



Date of Report: 05/21/2014

David Conner

Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Client Project: 2nd Qtr.
BCL Project: JPL- GW Monitoring Wells
BCL Work Order: 1409784
Invoice ID: B173740

Enclosed are the results of analyses for samples received by the laboratory on 5/2/2014. 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; AK UST101

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Page 1 of 1



Chain of Custody Form

Report To: Client: * Tidewater, Inc. Attn: * David Conner
Street Address: * 3761 Attucks Drive City: * Powell State: * OH Zip: * 43065
Phone: * (614) 792-2897 Fax: * (614) 792-2897
Email Address: david.conner@tideh2o.net
Submission #: 14-09784

Project Description: * JPL-GW Monitoring
Project Code: * 2nd Qtr.
Sampler (s): * Blaine Tech

Analysis Requested:

Sample #	Sample Description	Date	Time	Matrix*
-1	TB-10-5/2/14	5/2/14	0930	AQ
-2	MW-8	↓	1022	↓
-3	MW-7	↓	1131	↓
-4	DUP-8-2Q14	↓	1146	↓
-5	MW-10	5/1/14	1411	↓

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)

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: * 21031
 Are there any tests with holding times? less than or equal to 48 hours? Yes No
 *Standard Turnaround = 10

Notes:

CHK BY: [Signature] SUB-OUT [Signature]

Global ID:

1. Relinquished By:	Date	Time
[Signature]	5-2-14	1415
2. Relinquished By:	Date	Time
[Signature]	5-2-14	1610
3. Relinquished By:	Date	Time
[Signature]	5-2-14	1700

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. 15 07/01/13 page 1 of 1

Submission #: 14-09784

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
 Temperature: (A) 0.6 °C (C) 0.6 °C

Date/Time: 5.2.14 2020 Analyst Init: 97

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL		B	B	B						
PT PE UNPRESERVED										
QT INORGANIC CHEMICAL METALS										
PT INORGANIC CHEMICAL METALS		C	C	C						
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	A1									
40ml VOA VIAL		A13	A13	A13						
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER 8270					AB					
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: 5.2.14 2020 2050
 IS:\M\DOCS\WordPerfect\LAB DOCS\FORMS\SAMREC15



Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1409784-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: TB-10-5/2/14 Sampled By: Blaine Tech of BAT	Receive Date: 05/02/2014 20:20 Sampling Date: 05/02/2014 09:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): TB-10-5/2/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1409784-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-8 Sampled By: Blaine Tech of BAT	Receive Date: 05/02/2014 20:20 Sampling Date: 05/02/2014 10:22 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-8 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1409784-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-7 Sampled By: Blaine Tech of BAT	Receive Date: 05/02/2014 20:20 Sampling Date: 05/02/2014 11:31 Sample Depth: --- Lab Matrix: Water Sample Type: 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.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1409784-04	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: Dup-8-2Q14 Sampled By: Blaine Tech of BAT	Receive Date: 05/02/2014 20:20 Sampling Date: 05/02/2014 11:46 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): Dup-8-2Q14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1409784-05	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-10 Sampled By: Blaine Tech of BAT	Receive Date: 05/02/2014 20:20 Sampling Date: 05/01/2014 14:11 Sample Depth: --- Lab Matrix: Water Sample Type: 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: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409784-01	Client Sample Name: JPL-GW, TB-10-5/2/14, 5/2/2014 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Benzene	ND	ug/L	0.50	0.083	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: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409784-01	Client Sample Name: JPL-GW, TB-10-5/2/14, 5/2/2014 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
cis-1,3-Dichloropropene	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
trans-1,3-Dichloropropene	ND	ug/L	0.50	0.079	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: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409784-01	Client Sample Name: JPL-GW, TB-10-5/2/14, 5/2/2014 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl ether	ND	ug/L	2.0	0.21	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)	111	%	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	05/05/14	05/06/14 11:05	MGC	MS-V5	1	BXE0290

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409784-01	Client Sample Name: JPL-GW, TB-10-5/2/14, 5/2/2014 9:30:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Chloroacetonitrile	0	ug/L			EPA-524.2	0		1
1-Chlorobutane	0	ug/L			EPA-524.2	0		1
1,1-Dichloropropanone	0	ug/L			EPA-524.2	0		1
Methyl acrylate	0	ug/L			EPA-524.2	0		1
Nitrobenzene	0	ug/L			EPA-524.2	0		1
2-Nitropropane	0	ug/L			EPA-524.2	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	05/05/14	05/06/14 11:05	MGC	MS-V5	1	BXE0290

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409784-02	Client Sample Name: JPL-GW, MW-8, 5/2/2014 10:22:00AM, 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	0.30	ug/L	0.50	0.12	EPA-524.2	ND	J	1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	ND	ug/L	0.50	0.11	EPA-524.2	ND		1
1,2-Dichloroethane	ND	ug/L	0.50	0.17	EPA-524.2	ND		1
1,1-Dichloroethene	ND	ug/L	0.50	0.18	EPA-524.2	ND		1
cis-1,2-Dichloroethene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1
trans-1,2-Dichloroethene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,3-Dichloropropane	ND	ug/L	0.50	0.086	EPA-524.2	ND		1
2,2-Dichloropropane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,1-Dichloropropene	ND	ug/L	0.50	0.085	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409784-02	Client Sample Name: JPL-GW, MW-8, 5/2/2014 10:22:00AM, 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	0.22	ug/L	0.50	0.13	EPA-524.2	ND	J	1
1,2,3-Trichloropropane	ND	ug/L	1.0	0.24	EPA-524.2	ND		1
1,1,2-Trichloro-1,2,2-trifluoroethane	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,2,4-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
1,3,5-Trimethylbenzene	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Vinyl chloride	ND	ug/L	0.50	0.12	EPA-524.2	ND		1
Acetone	ND	ug/L	10	4.6	EPA-524.2	ND		1
Acrylonitrile	ND	ug/L	5.0	1.2	EPA-524.2	ND		1
Allyl chloride	ND	ug/L	5.0	0.80	EPA-524.2	ND		1
t-Amyl Methyl ether	ND	ug/L	0.50	0.25	EPA-524.2	ND		1
t-Butyl alcohol	ND	ug/L	10	9.4	EPA-524.2	ND		1
Carbon disulfide	ND	ug/L	1.0	0.38	EPA-524.2	ND		1
trans-1,4-Dichloro-2-butene	ND	ug/L	5.0	1.4	EPA-524.2	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409784-02	Client Sample Name: JPL-GW, MW-8, 5/2/2014 10:22:00AM, 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)	112	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.6	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	95.3	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	05/05/14	05/06/14 08:49	MGC	MS-V5	1	BXE0290

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409784-02	Client Sample Name: JPL-GW, MW-8, 5/2/2014 10:22:00AM, 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	05/05/14	05/06/14 08:49	MGC	MS-V5	1	BXE0290

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

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

Table with columns: Run #, Method, Prep Date, Run Date/Time, Analyst, Instrument, Dilution, QC Batch ID. Rows 1-8 corresponding to the main analysis table.

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409784-02	Client Sample Name: JPL-GW, MW-8, 5/2/2014 10:22:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00096	mg/L	0.0020	0.00070	EPA-7196	ND	J	1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	1.7	ug/L	3.0	0.50	EPA-200.8	ND	J	2
Total Recoverable Iron	27	ug/L	50	6.5	EPA-200.7	13	J	3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/02/14	05/02/14 22:56	OLH	KONE-1	1	BXE0297
2	EPA-200.8	05/12/14	05/13/14 18:16	SRM	PE-EL2	1	BXE0954
3	EPA-200.7	05/12/14	05/13/14 18:40	ICP	PE-OP2	1	BXE0952

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409784-03	Client Sample Name: JPL-GW, MW-7, 5/2/2014 11:31:00AM, 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	0.37	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	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	5.7	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: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409784-03	Client Sample Name: JPL-GW, MW-7, 5/2/2014 11:31:00AM, 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: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409784-03	Client Sample Name: JPL-GW, MW-7, 5/2/2014 11:31:00AM, 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)	111	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	99.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	87.3	%	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	05/05/14	05/06/14 11:27	MGC	MS-V5	1	BXE0290

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409784-03	Client Sample Name: JPL-GW, MW-7, 5/2/2014 11:31:00AM, 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	05/05/14	05/06/14 11:27	MGC	MS-V5	1	BXE0290

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Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID:	1409784-03	Client Sample Name:	JPL-GW, MW-7, 5/2/2014 11:31:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #	
Total Recoverable Calcium	76	mg/L	0.10	0.018	EPA-200.7	ND		1	
Total Recoverable Magnesium	26	mg/L	0.050	0.020	EPA-200.7	0.028		1	
Total Recoverable Sodium	41	mg/L	0.50	0.017	EPA-200.7	0.16		1	
Total Recoverable Potassium	4.2	mg/L	1.0	0.10	EPA-200.7	ND		1	
Bicarbonate	260	mg/L	5.0	5.0	SM-2320B	ND		2	
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2	
Total Alkalinity as CaCO3	210	mg/L	4.1	4.1	SM-2320B	ND		2	
Chloride	82	mg/L	0.50	0.067	EPA-300.0	ND		3	
Nitrate as N	1.2	mg/L	0.10	0.025	EPA-300.0	ND		3	
Sulfate	44	mg/L	1.0	0.18	EPA-300.0	ND		3	
pH	7.47	pH Units	0.05	0.05	EPA-150.1		S05	4	
Total Dissolved Solids @ 180 C	450	mg/L	33	33	EPA-160.1	ND		5	
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6	
Perchlorate	5.3	ug/L	4.0	0.45	EPA-314.0	ND		7	
ortho-Phosphate as P	0.024	mg/L	0.020	0.0040	EPA-365.1	0.0044		8	

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-200.7	05/12/14	05/13/14 18:42	ICP	PE-OP2	1	BXE0952
2	SM-2320B	05/05/14	05/05/14 19:49	RML	MET-1	1	BXE0339
3	EPA-300.0	05/03/14	05/03/14 16:17	OLH	IC1	1	BXE0295
4	EPA-150.1	05/05/14	05/05/14 19:49	RML	MET-1	1	BXE0339
5	EPA-160.1	05/07/14	05/07/14 12:30	FRP	MANUAL	3.333	BXE0593
6	EPA-353.2	05/03/14	05/03/14 13:55	OLH	KONE-1	1	BXE0354
7	EPA-314.0	05/15/14	05/15/14 17:56	OLH	IC6	1	BXE1396
8	EPA-365.1	05/03/14	05/03/14 12:20	TDC	KONE-1	1	BXE0355

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409784-03	Client Sample Name: JPL-GW, MW-7, 5/2/2014 11:31:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0072	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	15	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	520	ug/L	50	6.5	EPA-200.7	13		3
Total Recoverable Lead	0.10	ug/L	1.0	0.10	EPA-200.8	ND	J	2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/02/14	05/02/14 22:57	OLH	KONE-1	1	BXE0297
2	EPA-200.8	05/12/14	05/13/14 19:27	SRM	PE-EL2	1	BXE0954
3	EPA-200.7	05/12/14	05/13/14 18:42	ICP	PE-OP2	1	BXE0952

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409784-04	Client Sample Name: JPL-GW, Dup-8-2Q14, 5/2/2014 11:46:00AM, 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	0.38	ug/L	0.50	0.14	EPA-524.2	ND	J	1
Bromoform	ND	ug/L	0.50	0.27	EPA-524.2	ND		1
Bromomethane	ND	ug/L	1.0	0.25	EPA-524.2	ND	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	5.9	ug/L	0.50	0.12	EPA-524.2	ND		1
Chloromethane	ND	ug/L	0.50	0.14	EPA-524.2	ND		1
2-Chlorotoluene	ND	ug/L	0.50	0.20	EPA-524.2	ND		1
4-Chlorotoluene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
Dibromochloromethane	ND	ug/L	0.50	0.13	EPA-524.2	ND		1
1,2-Dibromo-3-chloropropane	ND	ug/L	1.0	0.44	EPA-524.2	ND		1
1,2-Dibromoethane	ND	ug/L	0.50	0.16	EPA-524.2	ND		1
Dibromomethane	ND	ug/L	0.50	0.24	EPA-524.2	ND		1
1,2-Dichlorobenzene	ND	ug/L	0.50	0.072	EPA-524.2	ND		1
1,3-Dichlorobenzene	ND	ug/L	0.50	0.15	EPA-524.2	ND		1
1,4-Dichlorobenzene	ND	ug/L	0.50	0.062	EPA-524.2	ND		1
Dichlorodifluoromethane	ND	ug/L	0.50	0.099	EPA-524.2	ND		1
1,1-Dichloroethane	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: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409784-04	Client Sample Name: JPL-GW, Dup-8-2Q14, 5/2/2014 11:46:00AM, 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: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

BCL Sample ID: 1409784-04 **Client Sample Name:** JPL-GW, Dup-8-2Q14, 5/2/2014 11:46:00AM, 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)	116	%	75 - 125 (LCL - UCL)		EPA-524.2			1
Toluene-d8 (Surrogate)	101	%	80 - 120 (LCL - UCL)		EPA-524.2			1
4-Bromofluorobenzene (Surrogate)	92.8	%	80 - 120 (LCL - UCL)		EPA-524.2			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-524.2	05/05/14	05/06/14 11:50	MGC	MS-V5	1	BXE0290

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

BCL Sample ID: 1409784-04	Client Sample Name: JPL-GW, Dup-8-2Q14, 5/2/2014 11:46:00AM, 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	05/05/14	05/06/14 11:50	MGC	MS-V5	1	BXE0290

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

BCL Sample ID: 1409784-04		Client Sample Name: JPL-GW, Dup-8-2Q14, 5/2/2014 11:46:00AM, Blaine Tech						
Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Total Recoverable Calcium	76	mg/L	0.10	0.018	EPA-200.7	ND		1
Total Recoverable Magnesium	26	mg/L	0.050	0.020	EPA-200.7	0.028		1
Total Recoverable Sodium	41	mg/L	0.50	0.017	EPA-200.7	0.16		1
Total Recoverable Potassium	4.1	mg/L	1.0	0.10	EPA-200.7	ND		1
Bicarbonate	260	mg/L	5.0	5.0	SM-2320B	ND		2
Carbonate	ND	mg/L	2.5	2.5	SM-2320B	ND		2
Total Alkalinity as CaCO3	210	mg/L	4.1	4.1	SM-2320B	ND		2
Chloride	82	mg/L	0.50	0.067	EPA-300.0	ND		3
Nitrate as N	1.2	mg/L	0.10	0.025	EPA-300.0	ND		3
Sulfate	45	mg/L	1.0	0.18	EPA-300.0	ND		3
pH	7.51	pH Units	0.05	0.05	EPA-150.1		S05	4
Total Dissolved Solids @ 180 C	440	mg/L	33	33	EPA-160.1	ND		5
Nitrite as N	ND	mg/L	0.050	0.012	EPA-353.2	ND		6
Perchlorate	5.2	ug/L	4.0	0.45	EPA-314.0	ND		7

Run #	Method	Prep Date	Run		Analyst	Instrument	Dilution	QC
			Date/Time					Batch ID
1	EPA-200.7	05/12/14	05/13/14	18:45	ICP	PE-OP2	1	BXE0952
2	SM-2320B	05/05/14	05/05/14	19:55	RML	MET-1	1	BXE0339
3	EPA-300.0	05/03/14	05/03/14	16:32	OLH	IC1	1	BXE0295
4	EPA-150.1	05/05/14	05/05/14	19:55	RML	MET-1	1	BXE0339
5	EPA-160.1	05/07/14	05/07/14	12:30	FRP	MANUAL	3.333	BXE0593
6	EPA-353.2	05/03/14	05/03/14	13:55	OLH	KONE-1	1	BXE0354
7	EPA-314.0	05/15/14	05/15/14	18:23	OLH	IC6	1	BXE1396

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1409784-04	Client Sample Name: JPL-GW, Dup-8-2Q14, 5/2/2014 11:46:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0070	mg/L	0.0020	0.00070	EPA-7196	ND		1
Total Recoverable Arsenic	ND	ug/L	2.0	0.70	EPA-200.8	ND		2
Total Recoverable Chromium	16	ug/L	3.0	0.50	EPA-200.8	ND		2
Total Recoverable Iron	430	ug/L	50	6.5	EPA-200.7	13		3
Total Recoverable Lead	ND	ug/L	1.0	0.10	EPA-200.8	ND		2

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/02/14	05/02/14 22:57	OLH	KONE-1	1	BXE0297
2	EPA-200.8	05/12/14	05/13/14 19:30	EAR	PE-EL2	1	BXE0954
3	EPA-200.7	05/12/14	05/13/14 18:45	ICP	PE-OP2	1	BXE0952

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1409784-05	Client Sample Name: JPL-GW, MW-10, 5/1/2014 2:11:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Acenaphthylene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Aldrin	ND	ug/L	2.0	0.35	EPA-8270C	ND		1
Aniline	ND	ug/L	5.0	0.69	EPA-8270C	ND		1
Anthracene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Benzidine	ND	ug/L	20	7.1	EPA-8270C	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	0.38	EPA-8270C	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	0.41	EPA-8270C	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
Benzoic acid	ND	ug/L	10	5.8	EPA-8270C	ND		1
Benzyl alcohol	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	0.47	EPA-8270C	ND		1
alpha-BHC	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
beta-BHC	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
delta-BHC	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.0	0.68	EPA-8270C	ND		1
bis(2-Chloroisopropyl) ether	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
bis(2-Ethylhexyl)phthalate	ND	ug/L	4.0	3.0	EPA-8270C	ND		1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
4-Chloroaniline	ND	ug/L	2.0	0.69	EPA-8270C	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
Chrysene	ND	ug/L	2.0	0.63	EPA-8270C	ND		1
4,4'-DDD	ND	ug/L	2.0	0.48	EPA-8270C	ND		1
4,4'-DDE	ND	ug/L	3.0	0.41	EPA-8270C	ND		1
4,4'-DDT	ND	ug/L	2.0	0.43	EPA-8270C	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	0.26	EPA-8270C	ND		1
Dibenzofuran	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	0.37	EPA-8270C	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1409784-05	Client Sample Name: JPL-GW, MW-10, 5/1/2014 2:11:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	2.0	0.35	EPA-8270C	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	8.2	EPA-8270C	ND		1
Dieldrin	ND	ug/L	3.0	0.41	EPA-8270C	ND		1
Diethyl phthalate	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.39	EPA-8270C	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	0.39	EPA-8270C	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.41	EPA-8270C	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.46	EPA-8270C	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
Endosulfan I	ND	ug/L	10	1.7	EPA-8270C	ND		1
Endosulfan II	ND	ug/L	10	1.2	EPA-8270C	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.58	EPA-8270C	ND		1
Endrin	ND	ug/L	2.0	1.1	EPA-8270C	ND		1
Endrin aldehyde	ND	ug/L	10	0.52	EPA-8270C	ND		1
Fluoranthene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Fluorene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Heptachlor	ND	ug/L	2.0	0.32	EPA-8270C	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
Hexachlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Hexachlorobutadiene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Hexachlorocyclopentadiene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Hexachloroethane	ND	ug/L	2.0	0.32	EPA-8270C	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
Isophorone	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Naphthalene	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
2-Naphthylamine	ND	ug/L	20	4.8	EPA-8270C	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.66	EPA-8270C	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.87	EPA-8270C	ND		1
Nitrobenzene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1

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Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1409784-05	Client Sample Name: JPL-GW, MW-10, 5/1/2014 2:11:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.0	0.61	EPA-8270C	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	1.3	EPA-8270C	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	0.44	EPA-8270C	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Pyrene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.40	EPA-8270C	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.37	EPA-8270C	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.43	EPA-8270C	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.34	EPA-8270C	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-8270C	ND		1
2-Methylphenol	ND	ug/L	2.0	1.0	EPA-8270C	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	1.6	EPA-8270C	ND		1
Total Methylphenol	ND	ug/L	4.0	2.6	EPA-8270C	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.73	EPA-8270C	ND		1
Pentachlorophenol	ND	ug/L	10	0.79	EPA-8270C	ND		1
Phenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.31	EPA-8270C	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.60	EPA-8270C	ND		1
Acetophenone	ND	ug/L	10	3.0	EPA-8270C	ND		1
2-Acetylaminofluorene	ND	ug/L	10	0.38	EPA-8270C	ND		1
Acrolein, dimethyl acetal	ND	ug/L	40	7.7	EPA-8270C	ND		1
4-Aminobiphenyl	ND	ug/L	20	5.2	EPA-8270C	ND		1
Aramite	ND	ug/L	10	2.3	EPA-8270C	ND		1
Benefin	ND	ug/L	10	0.88	EPA-8270C	ND		1
Carbazole	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
cis-Chlordane	ND	ug/L	5.0	0.30	EPA-8270C	ND		1
trans-Chlordane	ND	ug/L	5.0	0.40	EPA-8270C	ND		1
Chlorobenzilate	ND	ug/L	10	0.29	EPA-8270C	ND		1
1-Chloronaphthalene	ND	ug/L	10	0.28	EPA-8270C	ND		1
cis-Diallate	ND	ug/L	5.0	0.21	EPA-8270C	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1409784-05	Client Sample Name: JPL-GW, MW-10, 5/1/2014 2:11:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
trans-Diallate	ND	ug/L	5.0	0.22	EPA-8270C	ND		1
Diallate	ND	ug/L	10	0.42	EPA-8270C	ND		1
2,6-Dichlorophenol	ND	ug/L	10	1.3	EPA-8270C	ND		1
Dimethoate	ND	ug/L	20	0.46	EPA-8270C	ND		1
p-(Dimethylamino)azobenzene	ND	ug/L	10	0.54	EPA-8270C	ND		1
7,12-Dimethylbenz[a]anthracene	ND	ug/L	10	0.41	EPA-8270C	ND		1
3,3'-Dimethylbenzidine	ND	ug/L	20	5.4	EPA-8270C	ND		1
a,a-Dimethylphenethylamine	ND	ug/L	20	2.5	EPA-8270C	ND		1
Dimethyl sulfoxide (DMSO)	ND	ug/L	10	1.0	EPA-8270C	ND		1
1,3-Dinitrobenzene	ND	ug/L	10	0.23	EPA-8270C	ND		1
Dinoseb	ND	ug/L	10	0.61	EPA-8270C	ND		1
Diphenylamine	ND	ug/L	10	0.20	EPA-8270C	ND		1
Disulfoton	ND	ug/L	10	0.44	EPA-8270C	ND		1
Ethyl methacrylate	ND	ug/L	10	0.19	EPA-8270C	ND		1
Ethyl methanesulfonate	ND	ug/L	10	0.26	EPA-8270C	ND		1
Ethyl Parathion	ND	ug/L	10	0.31	EPA-8270C	ND		1
Famphur	ND	ug/L	20	8.3	EPA-8270C	ND		1
Hexachlorophene	ND	ug/L	200	35	EPA-8270C	ND		1
Hexachloropropene	ND	ug/L	20	0.46	EPA-8270C	ND		1
Isodrin	ND	ug/L	10	0.31	EPA-8270C	ND		1
cis-Isosafrole	ND	ug/L	5.0	0.41	EPA-8270C	ND		1
trans-Isosafrole	ND	ug/L	5.0	0.36	EPA-8270C	ND		1
Isosafrole	ND	ug/L	10	0.76	EPA-8270C	ND		1
Kepone	ND	ug/L	20	1.5	EPA-8270C	ND		1
Methapyrilene	ND	ug/L	10	1.5	EPA-8270C	ND		1
Methoxychlor	ND	ug/L	10	0.40	EPA-8270C	ND		1
3-Methylcholanthrene	ND	ug/L	10	0.56	EPA-8270C	ND		1
Methyl methacrylate	ND	ug/L	40	22	EPA-8270C	ND		1
Methyl methanesulfonate	ND	ug/L	10	0.42	EPA-8270C	ND		1
1-Methylnaphthalene	ND	ug/L	10	0.41	EPA-8270C	ND		1
Methyl parathion	ND	ug/L	10	0.32	EPA-8270C	ND		1
N-Methyl-2-pyrrolidinone	ND	ug/L	10	1.6	EPA-8270C	ND		1
1,4-Naphthoquinone	ND	ug/L	20	2.1	EPA-8270C	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1409784-05	Client Sample Name: JPL-GW, MW-10, 5/1/2014 2:11:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1-Naphthylamine	ND	ug/L	20	5.3	EPA-8270C	ND		1
5-Nitro-o-toluidine	ND	ug/L	10	0.44	EPA-8270C	ND		1
4-Nitroquinoline 1-oxide	ND	ug/L	20	12	EPA-8270C	ND		1
N-Nitrosodibutylamine	ND	ug/L	10	0.41	EPA-8270C	ND		1
N-Nitrosodiethylamine	ND	ug/L	10	0.43	EPA-8270C	ND		1
N-Nitrosomethylethylamine	ND	ug/L	10	0.37	EPA-8270C	ND		1
N-Nitrosomorpholine	ND	ug/L	10	0.35	EPA-8270C	ND		1
N-Nitrosopiperidine	ND	ug/L	10	0.44	EPA-8270C	ND		1
N-Nitrosopyrrolidine	ND	ug/L	10	0.44	EPA-8270C	ND		1
Pentachlorobenzene	ND	ug/L	10	0.25	EPA-8270C	ND		1
Pentachloroethane	ND	ug/L	20	1.0	EPA-8270C	ND		1
Pentachloronitrobenzene	ND	ug/L	10	0.30	EPA-8270C	ND		1
Phenacetin	ND	ug/L	10	0.20	EPA-8270C	ND		1
1,4-Phenylenediamine	ND	ug/L	20	2.2	EPA-8270C	ND		1
Phorate	ND	ug/L	10	0.34	EPA-8270C	ND		1
2-Picoline	ND	ug/L	10	0.23	EPA-8270C	ND		1
PCB-1016	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1221	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1232	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1242	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1248	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1254	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1260	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1262	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1268	ND	ug/L	50	25	EPA-8270C	ND		1
Total PCB's (Summation)	ND	ug/L	50	25	EPA-8270C	ND		1
Prometryn	ND	ug/L	10	1.7	EPA-8270C	ND		1
Pronamide	ND	ug/L	10	0.29	EPA-8270C	ND		1
Propyleneglycol monomethyl ether acetate	ND	ug/L	10	4.2	EPA-8270C	ND		1
Prowl	ND	ug/L	10	0.83	EPA-8270C	ND		1
Pyridine	ND	ug/L	10	0.27	EPA-8270C	ND		1
Safrole	ND	ug/L	10	0.33	EPA-8270C	ND		1
Sulfotep	ND	ug/L	10	0.43	EPA-8270C	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1409784-05	Client Sample Name: JPL-GW, MW-10, 5/1/2014 2:11:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10	0.39	EPA-8270C	ND		1
2,3,4,5-Tetrachlorophenol	ND	ug/L	10	5.0	EPA-8270C	ND		1
2,3,4,6-Tetrachlorophenol	ND	ug/L	10	4.7	EPA-8270C	ND		1
Thionazin	ND	ug/L	10	0.21	EPA-8270C	ND		1
2-Toluidine	ND	ug/L	10	0.49	EPA-8270C	ND		1
Toxaphene	ND	ug/L	100	50	EPA-8270C	ND		1
o,o,o-Triethylphosphorothioate	ND	ug/L	10	0.42	EPA-8270C	ND		1
1,3,5-Trinitrobenzene	ND	ug/L	10	0.30	EPA-8270C	ND		1
Tris(hydroxymethyl)nitromethane	ND	ug/L	50	5.0	EPA-8270C	ND		1
2-Fluorophenol (Surrogate)	37.6	%	30 - 120 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	37.3	%	12 - 110 (LCL - UCL)		EPA-8270C			1
Nitrobenzene-d5 (Surrogate)	75.4	%	60 - 130 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	75.5	%	55 - 125 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	59.6	%	40 - 150 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	81.2	%	40 - 150 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	05/07/14	05/17/14 05:18	VH1	MS-B2	1	BXE0865

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

BCL Sample ID:	1409784-05	Client Sample Name:	JPL-GW, MW-10, 5/1/2014 2:11:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1-Acetyl-2-thiourea	0	ug/L			EPA-8270C	0		1
2-Aminoanthraquinone	0	ug/L			EPA-8270C	0		1
3-Amino-9-ethylcarbazole	0	ug/L			EPA-8270C	0		1
Anilazine	0	ug/L			EPA-8270C	0		1
o-Anisidine	0	ug/L			EPA-8270C	0		1
Azinphos methyl	0	ug/L			EPA-8270C	0		1
Barban	0	ug/L			EPA-8270C	0		1
p-Benzoquinone	0	ug/L			EPA-8270C	0		1
Bromoxynil	0	ug/L			EPA-8270C	0		1
Captafol	0	ug/L			EPA-8270C	0		1
Captan	0	ug/L			EPA-8270C	0		1
Carbaryl	0	ug/L			EPA-8270C	0		1
Carbofuran	0	ug/L			EPA-8270C	0		1
Carbophenothion	0	ug/L			EPA-8270C	0		1
Chlorfenvinphos	0	ug/L			EPA-8270C	0		1
5-Chloro-2-methylaniline	0	ug/L			EPA-8270C	0		1
3-(Chloromethyl) pyridine hydrochloride	0	ug/L			EPA-8270C	0		1
4-Chloro-1,2-phenylenediamine	0	ug/L			EPA-8270C	0		1
4-Chloro-1,3-phenylenediamine	0	ug/L			EPA-8270C	0		1
Coumaphos	0	ug/L			EPA-8270C	0		1
p-Cresidine	0	ug/L			EPA-8270C	0		1
Crotoxyphos	0	ug/L			EPA-8270C	0		1
2-Cyclohexyl-4,6-dinitrophenol	0	ug/L			EPA-8270C	0		1
Demeton-O	0	ug/L			EPA-8270C	0		1
Demeton-S	0	ug/L			EPA-8270C	0		1
2,4-Diaminotoluene	0	ug/L			EPA-8270C	0		1
Dibenz[a,j]acridine	0	ug/L			EPA-8270C	0		1
Dibenzo[a,e]pyrene	0	ug/L			EPA-8270C	0		1
1,2-Dibromo-3-chloropropane	0	ug/L			EPA-8270C	0		1
Dichlone	0	ug/L			EPA-8270C	0		1
Dichlorvos	0	ug/L			EPA-8270C	0		1
Dicrotophos	0	ug/L			EPA-8270C	0		1
Diethylstilbestrol	0	ug/L			EPA-8270C	0		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

BCL Sample ID:	1409784-05	Client Sample Name:	JPL-GW, MW-10, 5/1/2014 2:11:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl sulfate	0	ug/L			EPA-8270C	0		1
Dihydrosafrole	0	ug/L			EPA-8270C	0		1
3,3'-Dimethoxybenzidine	0	ug/L			EPA-8270C	0		1
1,2-Dinitrobenzene	0	ug/L			EPA-8270C	0		1
1,4-Dinitrobenzene	0	ug/L			EPA-8270C	0		1
Dinocap	0	ug/L			EPA-8270C	0		1
Dioxathion	0	ug/L			EPA-8270C	0		1
5,5-Diphenylhydantoin	0	ug/L			EPA-8270C	0		1
Endrin ketone	0	ug/L			EPA-8270C	0		1
EPN	0	ug/L			EPA-8270C	0		1
Ethion	0	ug/L			EPA-8270C	0		1
Ethyl carbamate	0	ug/L			EPA-8270C	0		1
Fensulfothion	0	ug/L			EPA-8270C	0		1
Fenthion	0	ug/L			EPA-8270C	0		1
Fluchloralin	0	ug/L			EPA-8270C	0		1
Hexamethylphosphoramide	0	ug/L			EPA-8270C	0		1
Hydroquinone	0	ug/L			EPA-8270C	0		1
Leptophos	0	ug/L			EPA-8270C	0		1
Malathion	0	ug/L			EPA-8270C	0		1
Maleic Anhydride	0	ug/L			EPA-8270C	0		1
Mestranol	0	ug/L			EPA-8270C	0		1
4,4'-Methylenebis(2-chloroaniline)	0	ug/L			EPA-8270C	0		1
4,4'-Methylenebis[N,N-dimethylaniline]	0	ug/L			EPA-8270C	0		1
Mevinphos	0	ug/L			EPA-8270C	0		1
Mexacarbate	0	ug/L			EPA-8270C	0		1
Mirex	0	ug/L			EPA-8270C	0		1
Monocrotophos	0	ug/L			EPA-8270C	0		1
Naled	0	ug/L			EPA-8270C	0		1
Nicotine	0	ug/L			EPA-8270C	0		1
5-Nitroacenaphthene	0	ug/L			EPA-8270C	0		1
5-Nitro-o-anisidine	0	ug/L			EPA-8270C	0		1
4-Nitrobiphenyl	0	ug/L			EPA-8270C	0		1
Nitrophen	0	ug/L			EPA-8270C	0		1

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

BCL Sample ID: 1409784-05	Client Sample Name: JPL-GW, MW-10, 5/1/2014 2:11:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Octamethylpyrophosphoramide	0	ug/L			EPA-8270C	0		1
4,4'-Oxydianiline	0	ug/L			EPA-8270C	0		1
Phenobarbital	0	ug/L			EPA-8270C	0		1
Phosalone	0	ug/L			EPA-8270C	0		1
Phosmet	0	ug/L			EPA-8270C	0		1
Phosphamidon	0	ug/L			EPA-8270C	0		1
Phthalic anhydride	0	ug/L			EPA-8270C	0		1
Piperonyl sulfoxide	0	ug/L			EPA-8270C	0		1
Propylthiouracil	0	ug/L			EPA-8270C	0		1
Resorcinol	0	ug/L			EPA-8270C	0		1
Strychnine	0	ug/L			EPA-8270C	0		1
Sulfallate	0	ug/L			EPA-8270C	0		1
Terbufos	0	ug/L			EPA-8270C	0		1
Tetrachlorvinphos	0	ug/L			EPA-8270C	0		1
TEPP	0	ug/L			EPA-8270C	0		1
Thiophenol (Benzenethiol)	0	ug/L			EPA-8270C	0		1
Toluene 2,4-diisocyanate	0	ug/L			EPA-8270C	0		1
Trifluralin	0	ug/L			EPA-8270C	0		1
2,4,5-Trimethylaniline	0	ug/L			EPA-8270C	0		1
Trimethyl phosphate	0	ug/L			EPA-8270C	0		1
Tris(2,3-dibromopropyl) phosphate	0	ug/L			EPA-8270C	0		1
Tri-p-tolyl phosphate	0	ug/L			EPA-8270C	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	05/07/14	05/17/14 05:18	VH1	MS-B2	1	BXE0865

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

BCL Sample ID: 1409784-05	Client Sample Name: JPL-GW, MW-10, 5/1/2014 2:11:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Acenaphthylene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Anthracene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Benzo[a]anthracene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Benzo[b]fluoranthene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Benzo[k]fluoranthene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Benzo[a]pyrene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Benzo[g,h,i]perylene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Chrysene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Fluoranthene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Fluorene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Naphthalene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Phenanthrene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Pyrene	ND	ug/L	0.10	0.034	EPA-8270C-SIM	ND		1
Nitrobenzene-d5 (Surrogate)	96.4	%	42 - 130 (LCL - UCL)		EPA-8270C-SIM			1
2-Fluorobiphenyl (Surrogate)	91.0	%	50 - 116 (LCL - UCL)		EPA-8270C-SIM			1
p-Terphenyl-d14 (Surrogate)	89.8	%	43 - 134 (LCL - UCL)		EPA-8270C-SIM			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C-SIM	05/07/14	05/15/14 12:33	MK1	MS-B7	0.950	BXE0883

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0290						
Benzene	BXE0290-BLK1	ND	ug/L	0.50	0.083	
Bromobenzene	BXE0290-BLK1	ND	ug/L	0.50	0.13	
Bromochloromethane	BXE0290-BLK1	ND	ug/L	0.50	0.24	
Bromodichloromethane	BXE0290-BLK1	ND	ug/L	0.50	0.14	
Bromoform	BXE0290-BLK1	ND	ug/L	0.50	0.27	
Bromomethane	BXE0290-BLK1	ND	ug/L	1.0	0.25	
n-Butylbenzene	BXE0290-BLK1	ND	ug/L	0.50	0.11	
sec-Butylbenzene	BXE0290-BLK1	ND	ug/L	0.50	0.15	
tert-Butylbenzene	BXE0290-BLK1	ND	ug/L	0.50	0.13	
Carbon tetrachloride	BXE0290-BLK1	ND	ug/L	0.50	0.18	
Chlorobenzene	BXE0290-BLK1	ND	ug/L	0.50	0.093	
Chloroethane	BXE0290-BLK1	ND	ug/L	0.50	0.14	
Chloroform	BXE0290-BLK1	ND	ug/L	0.50	0.12	
Chloromethane	BXE0290-BLK1	ND	ug/L	0.50	0.14	
2-Chlorotoluene	BXE0290-BLK1	ND	ug/L	0.50	0.20	
4-Chlorotoluene	BXE0290-BLK1	ND	ug/L	0.50	0.15	
Dibromochloromethane	BXE0290-BLK1	ND	ug/L	0.50	0.13	
1,2-Dibromo-3-chloropropane	BXE0290-BLK1	ND	ug/L	1.0	0.44	
1,2-Dibromoethane	BXE0290-BLK1	ND	ug/L	0.50	0.16	
Dibromomethane	BXE0290-BLK1	ND	ug/L	0.50	0.24	
1,2-Dichlorobenzene	BXE0290-BLK1	ND	ug/L	0.50	0.072	
1,3-Dichlorobenzene	BXE0290-BLK1	ND	ug/L	0.50	0.15	
1,4-Dichlorobenzene	BXE0290-BLK1	ND	ug/L	0.50	0.062	
Dichlorodifluoromethane	BXE0290-BLK1	ND	ug/L	0.50	0.099	
1,1-Dichloroethane	BXE0290-BLK1	ND	ug/L	0.50	0.11	
1,2-Dichloroethane	BXE0290-BLK1	ND	ug/L	0.50	0.17	
1,1-Dichloroethene	BXE0290-BLK1	ND	ug/L	0.50	0.18	
cis-1,2-Dichloroethene	BXE0290-BLK1	ND	ug/L	0.50	0.085	
trans-1,2-Dichloroethene	BXE0290-BLK1	ND	ug/L	0.50	0.15	
1,2-Dichloropropane	BXE0290-BLK1	ND	ug/L	0.50	0.13	
1,3-Dichloropropane	BXE0290-BLK1	ND	ug/L	0.50	0.086	
2,2-Dichloropropane	BXE0290-BLK1	ND	ug/L	0.50	0.13	
1,1-Dichloropropene	BXE0290-BLK1	ND	ug/L	0.50	0.085	
cis-1,3-Dichloropropene	BXE0290-BLK1	ND	ug/L	0.50	0.14	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0290						
trans-1,3-Dichloropropene	BXE0290-BLK1	ND	ug/L	0.50	0.079	
Ethylbenzene	BXE0290-BLK1	ND	ug/L	0.50	0.098	
Hexachlorobutadiene	BXE0290-BLK1	ND	ug/L	0.50	0.17	
Isopropylbenzene	BXE0290-BLK1	ND	ug/L	0.50	0.14	
p-Isopropyltoluene	BXE0290-BLK1	ND	ug/L	0.50	0.12	
Methylene chloride	BXE0290-BLK1	ND	ug/L	0.50	0.48	
Methyl t-butyl ether	BXE0290-BLK1	ND	ug/L	0.50	0.11	
Naphthalene	BXE0290-BLK1	ND	ug/L	0.50	0.36	
n-Propylbenzene	BXE0290-BLK1	ND	ug/L	0.50	0.11	
Styrene	BXE0290-BLK1	ND	ug/L	0.50	0.068	
1,1,1,2-Tetrachloroethane	BXE0290-BLK1	ND	ug/L	0.50	0.18	
1,1,1,2,2-Tetrachloroethane	BXE0290-BLK1	ND	ug/L	0.50	0.17	
Tetrachloroethene	BXE0290-BLK1	ND	ug/L	0.50	0.13	
Toluene	BXE0290-BLK1	ND	ug/L	0.50	0.093	
1,2,3-Trichlorobenzene	BXE0290-BLK1	ND	ug/L	0.50	0.16	
1,2,4-Trichlorobenzene	BXE0290-BLK1	ND	ug/L	0.50	0.19	
1,1,1-Trichloroethane	BXE0290-BLK1	ND	ug/L	0.50	0.11	
1,1,2-Trichloroethane	BXE0290-BLK1	ND	ug/L	0.50	0.16	
Trichloroethene	BXE0290-BLK1	ND	ug/L	0.50	0.085	
Trichlorofluoromethane	BXE0290-BLK1	ND	ug/L	0.50	0.13	
1,2,3-Trichloropropane	BXE0290-BLK1	ND	ug/L	1.0	0.24	
1,1,2-Trichloro-1,2,2-trifluoroethane	BXE0290-BLK1	ND	ug/L	0.50	0.15	
1,2,4-Trimethylbenzene	BXE0290-BLK1	ND	ug/L	0.50	0.12	
1,3,5-Trimethylbenzene	BXE0290-BLK1	ND	ug/L	0.50	0.12	
Vinyl chloride	BXE0290-BLK1	ND	ug/L	0.50	0.12	
Acetone	BXE0290-BLK1	ND	ug/L	10	4.6	
Acrylonitrile	BXE0290-BLK1	ND	ug/L	5.0	1.2	
Allyl chloride	BXE0290-BLK1	ND	ug/L	5.0	0.80	
t-Amyl Methyl ether	BXE0290-BLK1	ND	ug/L	0.50	0.25	
t-Butyl alcohol	BXE0290-BLK1	ND	ug/L	10	9.4	
Carbon disulfide	BXE0290-BLK1	ND	ug/L	1.0	0.38	
trans-1,4-Dichloro-2-butene	BXE0290-BLK1	ND	ug/L	5.0	1.4	
Diethyl ether	BXE0290-BLK1	ND	ug/L	2.0	0.21	
Ethyl methacrylate	BXE0290-BLK1	ND	ug/L	4.0	0.97	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0290						
Ethyl t-butyl ether	BXE0290-BLK1	ND	ug/L	0.50	0.18	
Hexachloroethane	BXE0290-BLK1	ND	ug/L	0.50	0.16	
2-Hexanone	BXE0290-BLK1	ND	ug/L	10	3.4	
Methacrylonitrile	BXE0290-BLK1	ND	ug/L	10	1.7	
Methyl ethyl ketone	BXE0290-BLK1	ND	ug/L	10	2.5	
Methyl iodide	BXE0290-BLK1	ND	ug/L	2.0	0.47	
Methyl isobutyl ketone	BXE0290-BLK1	ND	ug/L	10	2.1	
Methyl methacrylate	BXE0290-BLK1	ND	ug/L	5.0	1.5	
Pentachloroethane	BXE0290-BLK1	ND	ug/L	2.0	0.43	
Propionitrile	BXE0290-BLK1	ND	ug/L	20	4.2	
Tetrahydrofuran	BXE0290-BLK1	ND	ug/L	20	5.2	
p- & m-Xylenes	BXE0290-BLK1	ND	ug/L	0.50	0.28	
o-Xylene	BXE0290-BLK1	ND	ug/L	0.50	0.082	
1,2-Dichloroethane-d4 (Surrogate)	BXE0290-BLK1	110	%	75 - 125 (LCL - UCL)		
Toluene-d8 (Surrogate)	BXE0290-BLK1	99.8	%	80 - 120 (LCL - UCL)		
4-Bromofluorobenzene (Surrogate)	BXE0290-BLK1	91.5	%	80 - 120 (LCL - UCL)		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXE0290										
Benzene	BXE0290-BS1	LCS	21.170	25.000	ug/L	84.7		70 - 130		
Bromodichloromethane	BXE0290-BS1	LCS	30.050	25.000	ug/L	120		70 - 130		
Chlorobenzene	BXE0290-BS1	LCS	24.480	25.000	ug/L	97.9		70 - 130		
Chloroethane	BXE0290-BS1	LCS	22.680	25.000	ug/L	90.7		70 - 130		
1,4-Dichlorobenzene	BXE0290-BS1	LCS	28.690	25.000	ug/L	115		70 - 130		
1,1-Dichloroethane	BXE0290-BS1	LCS	23.360	25.000	ug/L	93.4		70 - 130		
1,1-Dichloroethene	BXE0290-BS1	LCS	25.180	25.000	ug/L	101		70 - 130		
Toluene	BXE0290-BS1	LCS	23.580	25.000	ug/L	94.3		70 - 130		
Trichloroethene	BXE0290-BS1	LCS	25.860	25.000	ug/L	103		70 - 130		
1,2-Dichloroethane-d4 (Surrogate)	BXE0290-BS1	LCS	11.180	10.000	ug/L	112		75 - 125		
Toluene-d8 (Surrogate)	BXE0290-BS1	LCS	10.030	10.000	ug/L	100		80 - 120		
4-Bromofluorobenzene (Surrogate)	BXE0290-BS1	LCS	11.320	10.000	ug/L	113		80 - 120		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	Control Limits			Lab
							RPD	Percent Recovery	Percent Recovery	
QC Batch ID: BXE0290		Used client sample: Y - Description: MW-8, 05/02/2014 10:22								
Benzene	MS	1409784-02	ND	21.460	25.000	ug/L		85.8		70 - 130
	MSD	1409784-02	ND	21.430	25.000	ug/L	0.1	85.7	20	70 - 130
Bromodichloromethane	MS	1409784-02	ND	30.910	25.000	ug/L		124		70 - 130
	MSD	1409784-02	ND	31.740	25.000	ug/L	2.6	127	20	70 - 130
Chlorobenzene	MS	1409784-02	ND	24.980	25.000	ug/L		99.9		70 - 130
	MSD	1409784-02	ND	25.920	25.000	ug/L	3.7	104	20	70 - 130
Chloroethane	MS	1409784-02	ND	22.660	25.000	ug/L		90.6		70 - 130
	MSD	1409784-02	ND	22.820	25.000	ug/L	0.7	91.3	20	70 - 130
1,4-Dichlorobenzene	MS	1409784-02	ND	29.590	25.000	ug/L		118		70 - 130
	MSD	1409784-02	ND	31.020	25.000	ug/L	4.7	124	20	70 - 130
1,1-Dichloroethane	MS	1409784-02	ND	23.410	25.000	ug/L		93.6		70 - 130
	MSD	1409784-02	ND	24.110	25.000	ug/L	2.9	96.4	20	70 - 130
1,1-Dichloroethene	MS	1409784-02	ND	25.130	25.000	ug/L		101		70 - 130
	MSD	1409784-02	ND	25.330	25.000	ug/L	0.8	101	20	70 - 130
Toluene	MS	1409784-02	ND	24.220	25.000	ug/L		96.9		70 - 130
	MSD	1409784-02	ND	24.770	25.000	ug/L	2.2	99.1	20	70 - 130
Trichloroethene	MS	1409784-02	ND	26.470	25.000	ug/L		106		70 - 130
	MSD	1409784-02	ND	26.980	25.000	ug/L	1.9	108	20	70 - 130
1,2-Dichloroethane-d4 (Surrogate)	MS	1409784-02	ND	11.080	10.000	ug/L		111		75 - 125
	MSD	1409784-02	ND	10.630	10.000	ug/L	4.1	106		75 - 125
Toluene-d8 (Surrogate)	MS	1409784-02	ND	9.8300	10.000	ug/L		98.3		80 - 120
	MSD	1409784-02	ND	10.010	10.000	ug/L	1.8	100		80 - 120
4-Bromofluorobenzene (Surrogate)	MS	1409784-02	ND	11.280	10.000	ug/L		113		80 - 120
	MSD	1409784-02	ND	11.600	10.000	ug/L	2.8	116		80 - 120

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Volatile Organic Analysis (EPA Method 524.2) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0290						
Chloroacetonitrile	BXE0290-BLK1	0	ug/L			
1-Chlorobutane	BXE0290-BLK1	0	ug/L			
1,1-Dichloropropanone	BXE0290-BLK1	0	ug/L			
Methyl acrylate	BXE0290-BLK1	0	ug/L			
Nitrobenzene	BXE0290-BLK1	0	ug/L			
2-Nitropropane	BXE0290-BLK1	0	ug/L			

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0865						
Acenaphthene	BXE0865-BLK2	ND	ug/L	2.0	0.24	
Acenaphthylene	BXE0865-BLK2	ND	ug/L	2.0	0.28	
Aldrin	BXE0865-BLK2	ND	ug/L	2.0	0.35	
Aniline	BXE0865-BLK2	ND	ug/L	5.0	0.69	
Anthracene	BXE0865-BLK2	ND	ug/L	2.0	0.30	
Benzidine	BXE0865-BLK2	ND	ug/L	20	7.1	
Benzo[a]anthracene	BXE0865-BLK2	ND	ug/L	2.0	0.38	
Benzo[b]fluoranthene	BXE0865-BLK2	ND	ug/L	2.0	0.41	
Benzo[k]fluoranthene	BXE0865-BLK2	ND	ug/L	2.0	0.31	
Benzo[a]pyrene	BXE0865-BLK2	ND	ug/L	2.0	0.20	
Benzo[g,h,i]perylene	BXE0865-BLK2	ND	ug/L	2.0	0.22	
Benzoic acid	BXE0865-BLK2	ND	ug/L	10	5.8	
Benzyl alcohol	BXE0865-BLK2	ND	ug/L	2.0	0.34	
Benzyl butyl phthalate	BXE0865-BLK2	ND	ug/L	2.0	0.47	
alpha-BHC	BXE0865-BLK2	ND	ug/L	2.0	0.27	
beta-BHC	BXE0865-BLK2	ND	ug/L	2.0	0.27	
delta-BHC	BXE0865-BLK2	ND	ug/L	2.0	0.30	
gamma-BHC (Lindane)	BXE0865-BLK2	ND	ug/L	2.0	0.22	
bis(2-Chloroethoxy)methane	BXE0865-BLK2	ND	ug/L	2.0	0.27	
bis(2-Chloroethyl) ether	BXE0865-BLK2	ND	ug/L	2.0	0.68	
bis(2-Chloroisopropyl)ether	BXE0865-BLK2	ND	ug/L	2.0	0.30	
bis(2-Ethylhexyl)phthalate	BXE0865-BLK2	ND	ug/L	4.0	3.0	
4-Bromophenyl phenyl ether	BXE0865-BLK2	ND	ug/L	2.0	0.23	
4-Chloroaniline	BXE0865-BLK2	ND	ug/L	2.0	0.69	
2-Chloronaphthalene	BXE0865-BLK2	ND	ug/L	2.0	0.34	
4-Chlorophenyl phenyl ether	BXE0865-BLK2	ND	ug/L	2.0	0.23	
Chrysene	BXE0865-BLK2	ND	ug/L	2.0	0.63	
4,4'-DDD	BXE0865-BLK2	ND	ug/L	2.0	0.48	
4,4'-DDE	BXE0865-BLK2	ND	ug/L	3.0	0.41	
4,4'-DDT	BXE0865-BLK2	ND	ug/L	2.0	0.43	
Dibenzo[a,h]anthracene	BXE0865-BLK2	ND	ug/L	3.0	0.26	
Dibenzofuran	BXE0865-BLK2	ND	ug/L	2.0	0.21	
1,2-Dichlorobenzene	BXE0865-BLK2	ND	ug/L	2.0	0.37	
1,3-Dichlorobenzene	BXE0865-BLK2	ND	ug/L	2.0	0.35	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0865						
1,4-Dichlorobenzene	BXE0865-BLK2	ND	ug/L	2.0	0.31	
3,3-Dichlorobenzidine	BXE0865-BLK2	ND	ug/L	10	8.2	
Dieldrin	BXE0865-BLK2	ND	ug/L	3.0	0.41	
Diethyl phthalate	BXE0865-BLK2	ND	ug/L	2.0	0.33	
Dimethyl phthalate	BXE0865-BLK2	ND	ug/L	2.0	0.39	
Di-n-butyl phthalate	BXE0865-BLK2	ND	ug/L	2.0	0.39	
2,4-Dinitrotoluene	BXE0865-BLK2	ND	ug/L	2.0	0.26	
2,6-Dinitrotoluene	BXE0865-BLK2	ND	ug/L	2.0	0.41	
Di-n-octyl phthalate	BXE0865-BLK2	ND	ug/L	2.0	0.46	
1,2-Diphenylhydrazine	BXE0865-BLK2	ND	ug/L	2.0	0.34	
Endosulfan I	BXE0865-BLK2	ND	ug/L	10	1.7	
Endosulfan II	BXE0865-BLK2	ND	ug/L	10	1.2	
Endosulfan sulfate	BXE0865-BLK2	ND	ug/L	3.0	0.58	
Endrin	BXE0865-BLK2	ND	ug/L	2.0	1.1	
Endrin aldehyde	BXE0865-BLK2	ND	ug/L	10	0.52	
Fluoranthene	BXE0865-BLK2	ND	ug/L	2.0	0.20	
Fluorene	BXE0865-BLK2	ND	ug/L	2.0	0.28	
Heptachlor	BXE0865-BLK2	ND	ug/L	2.0	0.32	
Heptachlor epoxide	BXE0865-BLK2	ND	ug/L	2.0	0.27	
Hexachlorobenzene	BXE0865-BLK2	ND	ug/L	2.0	0.20	
Hexachlorobutadiene	BXE0865-BLK2	ND	ug/L	2.0	0.24	
Hexachlorocyclopentadiene	BXE0865-BLK2	ND	ug/L	2.0	0.30	
Hexachloroethane	BXE0865-BLK2	ND	ug/L	2.0	0.32	
Indeno[1,2,3-cd]pyrene	BXE0865-BLK2	ND	ug/L	2.0	0.26	
Isophorone	BXE0865-BLK2	ND	ug/L	2.0	0.31	
2-Methylnaphthalene	BXE0865-BLK2	ND	ug/L	2.0	0.28	
Naphthalene	BXE0865-BLK2	ND	ug/L	2.0	0.21	
2-Naphthylamine	BXE0865-BLK2	ND	ug/L	20	4.8	
2-Nitroaniline	BXE0865-BLK2	ND	ug/L	2.0	0.33	
3-Nitroaniline	BXE0865-BLK2	ND	ug/L	2.0	0.66	
4-Nitroaniline	BXE0865-BLK2	ND	ug/L	5.0	0.87	
Nitrobenzene	BXE0865-BLK2	ND	ug/L	2.0	0.26	
N-Nitrosodimethylamine	BXE0865-BLK2	ND	ug/L	2.0	0.61	
N-Nitrosodi-N-propylamine	BXE0865-BLK2	ND	ug/L	2.0	1.3	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0865						
N-Nitrosodiphenylamine	BXE0865-BLK2	ND	ug/L	2.0	0.44	
Phenanthrene	BXE0865-BLK2	ND	ug/L	2.0	0.20	
Pyrene	BXE0865-BLK2	ND	ug/L	2.0	0.26	
1,2,4-Trichlorobenzene	BXE0865-BLK2	ND	ug/L	2.0	0.27	
4-Chloro-3-methylphenol	BXE0865-BLK2	ND	ug/L	5.0	0.40	
2-Chlorophenol	BXE0865-BLK2	ND	ug/L	2.0	0.37	
2,4-Dichlorophenol	BXE0865-BLK2	ND	ug/L	2.0	0.43	
2,4-Dimethylphenol	BXE0865-BLK2	ND	ug/L	2.0	0.20	
4,6-Dinitro-2-methylphenol	BXE0865-BLK2	ND	ug/L	10	0.34	
2,4-Dinitrophenol	BXE0865-BLK2	ND	ug/L	10	0.20	
2-Methylphenol	BXE0865-BLK2	ND	ug/L	2.0	1.0	
3- & 4-Methylphenol	BXE0865-BLK2	ND	ug/L	2.0	1.6	
Total Methylphenol	BXE0865-BLK2	ND	ug/L	4.0	2.6	
2-Nitrophenol	BXE0865-BLK2	ND	ug/L	2.0	0.28	
4-Nitrophenol	BXE0865-BLK2	ND	ug/L	2.0	0.73	
Pentachlorophenol	BXE0865-BLK2	ND	ug/L	10	0.79	
Phenol	BXE0865-BLK2	ND	ug/L	2.0	0.20	
2,4,5-Trichlorophenol	BXE0865-BLK2	ND	ug/L	5.0	0.31	
2,4,6-Trichlorophenol	BXE0865-BLK2	ND	ug/L	5.0	0.60	
Acetophenone	BXE0865-BLK2	ND	ug/L	10	3.0	
2-Acetylaminofluorene	BXE0865-BLK2	ND	ug/L	10	0.38	
Acrolein, dimethyl acetal	BXE0865-BLK2	ND	ug/L	40	7.7	
4-Aminobiphenyl	BXE0865-BLK2	ND	ug/L	20	5.2	
Aramite	BXE0865-BLK2	ND	ug/L	10	2.3	
Benefin	BXE0865-BLK2	ND	ug/L	10	0.88	
Carbazole	BXE0865-BLK2	ND	ug/L	2.0	0.20	
cis-Chlordane	BXE0865-BLK2	ND	ug/L	5.0	0.30	
trans-Chlordane	BXE0865-BLK2	ND	ug/L	5.0	0.40	
Chlorobenzilate	BXE0865-BLK2	ND	ug/L	10	0.29	
1-Chloronaphthalene	BXE0865-BLK2	ND	ug/L	10	0.28	
cis-Diallate	BXE0865-BLK2	ND	ug/L	5.0	0.21	
trans-Diallate	BXE0865-BLK2	ND	ug/L	5.0	0.22	
Diallate	BXE0865-BLK2	ND	ug/L	10	0.42	
2,6-Dichlorophenol	BXE0865-BLK2	ND	ug/L	10	1.3	

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Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0865						
Dimethoate	BXE0865-BLK2	ND	ug/L	20	0.46	
p-(Dimethylamino)azobenzene	BXE0865-BLK2	ND	ug/L	10	0.54	
7,12-Dimethylbenz[a]anthracene	BXE0865-BLK2	ND	ug/L	10	0.41	
3,3'-Dimethylbenzidine	BXE0865-BLK2	ND	ug/L	20	5.4	
a,a-Dimethylphenethylamine	BXE0865-BLK2	ND	ug/L	20	2.5	
Dimethyl sulfoxide (DMSO)	BXE0865-BLK2	ND	ug/L	10	1.0	
1,3-Dinitrobenzene	BXE0865-BLK2	ND	ug/L	10	0.23	
Dinoseb	BXE0865-BLK2	ND	ug/L	10	0.61	
Diphenylamine	BXE0865-BLK2	ND	ug/L	10	0.20	
Disulfoton	BXE0865-BLK2	ND	ug/L	10	0.44	
Ethyl methacrylate	BXE0865-BLK2	ND	ug/L	10	0.19	
Ethyl methanesulfonate	BXE0865-BLK2	ND	ug/L	10	0.26	
Ethyl Parathion	BXE0865-BLK2	ND	ug/L	10	0.31	
Famphur	BXE0865-BLK2	ND	ug/L	20	8.3	
Hexachlorophene	BXE0865-BLK2	ND	ug/L	200	35	
Hexachloropropene	BXE0865-BLK2	ND	ug/L	20	0.46	
Isodrin	BXE0865-BLK2	ND	ug/L	10	0.31	
cis-Isosafrole	BXE0865-BLK2	ND	ug/L	5.0	0.41	
trans-Isosafrole	BXE0865-BLK2	ND	ug/L	5.0	0.36	
Isosafrole	BXE0865-BLK2	ND	ug/L	10	0.76	
Kepone	BXE0865-BLK2	ND	ug/L	20	1.5	
Methapyrilene	BXE0865-BLK2	ND	ug/L	10	1.5	
Methoxychlor	BXE0865-BLK2	ND	ug/L	10	0.40	
3-Methylcholanthrene	BXE0865-BLK2	ND	ug/L	10	0.56	
Methyl methacrylate	BXE0865-BLK2	ND	ug/L	40	22	
Methyl methanesulfonate	BXE0865-BLK2	ND	ug/L	10	0.42	
1-Methylnaphthalene	BXE0865-BLK2	ND	ug/L	10	0.41	
Methyl parathion	BXE0865-BLK2	ND	ug/L	10	0.32	
N-Methyl-2-pyrrolidinone	BXE0865-BLK2	ND	ug/L	10	1.6	
1,4-Naphthoquinone	BXE0865-BLK2	ND	ug/L	20	2.1	
1-Naphthylamine	BXE0865-BLK2	ND	ug/L	20	5.3	
5-Nitro-o-toluidine	BXE0865-BLK2	ND	ug/L	10	0.44	
4-Nitroquinoline 1-oxide	BXE0865-BLK2	ND	ug/L	20	12	
N-Nitrosodibutylamine	BXE0865-BLK2	ND	ug/L	10	0.41	

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0865						
N-Nitrosodiethylamine	BXE0865-BLK2	ND	ug/L	10	0.43	
N-Nitrosomethylethylamine	BXE0865-BLK2	ND	ug/L	10	0.37	
N-Nitrosomorpholine	BXE0865-BLK2	ND	ug/L	10	0.35	
N-Nitrosopiperidine	BXE0865-BLK2	ND	ug/L	10	0.44	
N-Nitrosopyrrolidine	BXE0865-BLK2	ND	ug/L	10	0.44	
Pentachlorobenzene	BXE0865-BLK2	ND	ug/L	10	0.25	
Pentachloroethane	BXE0865-BLK2	ND	ug/L	20	1.0	
Pentachloronitrobenzene	BXE0865-BLK2	ND	ug/L	10	0.30	
Phenacetin	BXE0865-BLK2	ND	ug/L	10	0.20	
1,4-Phenylenediamine	BXE0865-BLK2	ND	ug/L	20	2.2	
Phorate	BXE0865-BLK2	ND	ug/L	10	0.34	
2-Picoline	BXE0865-BLK2	ND	ug/L	10	0.23	
PCB-1262	BXE0865-BLK2	ND	ug/L	50	25	
PCB-1260	BXE0865-BLK2	ND	ug/L	50	25	
PCB-1254	BXE0865-BLK2	ND	ug/L	50	25	
PCB-1248	BXE0865-BLK2	ND	ug/L	50	25	
PCB-1242	BXE0865-BLK2	ND	ug/L	50	25	
PCB-1232	BXE0865-BLK2	ND	ug/L	50	25	
PCB-1221	BXE0865-BLK2	ND	ug/L	50	25	
PCB-1016	BXE0865-BLK2	ND	ug/L	50	25	
PCB-1268	BXE0865-BLK2	ND	ug/L	50	25	
Total PCB's (Summation)	BXE0865-BLK2	ND	ug/L	50	25	
Prometryn	BXE0865-BLK2	ND	ug/L	10	1.7	
Pronamide	BXE0865-BLK2	ND	ug/L	10	0.29	
Propyleneglycol monomethyl ether acetate	BXE0865-BLK2	ND	ug/L	10	4.2	
Prowl	BXE0865-BLK2	ND	ug/L	10	0.83	
Pyridine	BXE0865-BLK2	ND	ug/L	10	0.27	
Safrole	BXE0865-BLK2	ND	ug/L	10	0.33	
Sulfotep	BXE0865-BLK2	ND	ug/L	10	0.43	
1,2,4,5-Tetrachlorobenzene	BXE0865-BLK2	ND	ug/L	10	0.39	
2,3,4,5-Tetrachlorophenol	BXE0865-BLK2	ND	ug/L	10	5.0	
2,3,4,6-Tetrachlorophenol	BXE0865-BLK2	ND	ug/L	10	4.7	
Thionazin	BXE0865-BLK2	ND	ug/L	10	0.21	
2-Toluidine	BXE0865-BLK2	ND	ug/L	10	0.49	

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Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0865						
Toxaphene	BXE0865-BLK2	ND	ug/L	100	50	
o,o,o-Triethylphosphorothioate	BXE0865-BLK2	ND	ug/L	10	0.42	
1,3,5-Trinitrobenzene	BXE0865-BLK2	ND	ug/L	10	0.30	
Tris(hydroxymethyl)nitromethane	BXE0865-BLK2	ND	ug/L	50	5.0	
2-Fluorophenol (Surrogate)	BXE0865-BLK2	33.1	%	30 - 120 (LCL - UCL)		
Phenol-d5 (Surrogate)	BXE0865-BLK2	27.6	%	12 - 110 (LCL - UCL)		
Nitrobenzene-d5 (Surrogate)	BXE0865-BLK2	70.5	%	60 - 130 (LCL - UCL)		
2-Fluorobiphenyl (Surrogate)	BXE0865-BLK2	64.6	%	55 - 125 (LCL - UCL)		
2,4,6-Tribromophenol (Surrogate)	BXE0865-BLK2	54.3	%	40 - 150 (LCL - UCL)		
p-Terphenyl-d14 (Surrogate)	BXE0865-BLK2	58.8	%	40 - 150 (LCL - UCL)		

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXE0865										
Acenaphthene	BXE0865-BS2	LCS	44.785	50.000	ug/L	89.6		50 - 120		
1,4-Dichlorobenzene	BXE0865-BS2	LCS	40.895	50.000	ug/L	81.8		50 - 120		
2,4-Dinitrotoluene	BXE0865-BS2	LCS	55.542	50.000	ug/L	111		50 - 120		
Hexachlorobenzene	BXE0865-BS2	LCS	46.783	50.000	ug/L	93.6		60 - 120		
Hexachlorobutadiene	BXE0865-BS2	LCS	31.864	50.000	ug/L	63.7		40 - 110		
Hexachloroethane	BXE0865-BS2	LCS	40.003	50.000	ug/L	80.0		40 - 120		
Nitrobenzene	BXE0865-BS2	LCS	41.448	50.000	ug/L	82.9		50 - 120		
N-Nitrosodi-N-propylamine	BXE0865-BS2	LCS	42.893	50.000	ug/L	85.8		50 - 120		
Pyrene	BXE0865-BS2	LCS	47.899	50.000	ug/L	95.8		40 - 140		
1,2,4-Trichlorobenzene	BXE0865-BS2	LCS	39.925	50.000	ug/L	79.9		45 - 120		
4-Chloro-3-methylphenol	BXE0865-BS2	LCS	49.994	50.000	ug/L	100		50 - 120		
2-Chlorophenol	BXE0865-BS2	LCS	39.828	50.000	ug/L	79.7		50 - 120		
2-Methylphenol	BXE0865-BS2	LCS	37.510	50.000	ug/L	75.0		40 - 110		
3- & 4-Methylphenol	BXE0865-BS2	LCS	82.809	100.00	ug/L	82.8		40 - 110		
4-Nitrophenol	BXE0865-BS2	LCS	24.978	50.000	ug/L	50.0		10 - 110		
Pentachlorophenol	BXE0865-BS2	LCS	43.097	50.000	ug/L	86.2		30 - 120		
Phenol	BXE0865-BS2	LCS	19.710	50.000	ug/L	39.4		20 - 110		
2,4,6-Trichlorophenol	BXE0865-BS2	LCS	47.899	50.000	ug/L	95.8		54 - 120		
Pyridine	BXE0865-BS2	LCS	20.389	50.000	ug/L	40.8		1 - 110		
2-Fluorophenol (Surrogate)	BXE0865-BS2	LCS	40.944	80.000	ug/L	51.2		30 - 120		
Phenol-d5 (Surrogate)	BXE0865-BS2	LCS	33.145	80.000	ug/L	41.4		12 - 110		
Nitrobenzene-d5 (Surrogate)	BXE0865-BS2	LCS	75.097	80.000	ug/L	93.9		60 - 130		
2-Fluorobiphenyl (Surrogate)	BXE0865-BS2	LCS	57.492	80.000	ug/L	71.9		55 - 125		
2,4,6-Tribromophenol (Surrogate)	BXE0865-BS2	LCS	65.950	80.000	ug/L	82.4		40 - 150		
p-Terphenyl-d14 (Surrogate)	BXE0865-BS2	LCS	36.763	40.000	ug/L	91.9		40 - 150		

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Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXE0865		Used client sample: N								
Acenaphthene	MS	408395-10RE	ND	43.258	50.000	ug/L		86.5		50 - 120
	MSD	408395-10RE	ND	42.602	50.000	ug/L	1.5	85.2	30	50 - 120
1,4-Dichlorobenzene	MS	408395-10RE	ND	37.277	50.000	ug/L		74.6		47 - 120
	MSD	408395-10RE	ND	38.325	50.000	ug/L	2.8	76.6	30	47 - 120
2,4-Dinitrotoluene	MS	408395-10RE	ND	45.734	50.000	ug/L		91.5		50 - 130
	MSD	408395-10RE	ND	47.530	50.000	ug/L	3.9	95.1	30	50 - 130
Hexachlorobenzene	MS	408395-10RE	ND	45.197	50.000	ug/L		90.4		62 - 120
	MSD	408395-10RE	ND	45.357	50.000	ug/L	0.4	90.7	30	62 - 120
Hexachlorobutadiene	MS	408395-10RE	ND	30.288	50.000	ug/L		60.6		40 - 110
	MSD	408395-10RE	ND	29.866	50.000	ug/L	1.4	59.7	30	40 - 110
Hexachloroethane	MS	408395-10RE	ND	34.762	50.000	ug/L		69.5		40 - 120
	MSD	408395-10RE	ND	37.035	50.000	ug/L	6.3	74.1	30	40 - 120
Nitrobenzene	MS	408395-10RE	ND	40.896	50.000	ug/L		81.8		50 - 120
	MSD	408395-10RE	ND	39.498	50.000	ug/L	3.5	79.0	30	50 - 120
N-Nitrosodi-N-propylamine	MS	408395-10RE	ND	33.264	50.000	ug/L		66.5		50 - 120
	MSD	408395-10RE	ND	37.151	50.000	ug/L	11.0	74.3	30	50 - 120
Pyrene	MS	408395-10RE	ND	36.374	50.000	ug/L		72.7		40 - 140
	MSD	408395-10RE	ND	41.642	50.000	ug/L	13.5	83.3	30	40 - 140
1,2,4-Trichlorobenzene	MS	408395-10RE	ND	37.018	50.000	ug/L		74.0		43 - 120
	MSD	408395-10RE	ND	37.267	50.000	ug/L	0.7	74.5	30	43 - 120
4-Chloro-3-methylphenol	MS	408395-10RE	ND	41.251	50.000	ug/L		82.5		50 - 120
	MSD	408395-10RE	ND	42.632	50.000	ug/L	3.3	85.3	30	50 - 120
2-Chlorophenol	MS	408395-10RE	ND	33.034	50.000	ug/L		66.1		50 - 120
	MSD	408395-10RE	ND	36.074	50.000	ug/L	8.8	72.1	30	50 - 120
2-Methylphenol	MS	408395-10RE	ND	29.184	50.000	ug/L		58.4		40 - 110
	MSD	408395-10RE	ND	33.853	50.000	ug/L	14.8	67.7	30	40 - 110
3- & 4-Methylphenol	MS	408395-10RE	ND	60.547	100.00	ug/L		60.5		40 - 110
	MSD	408395-10RE	ND	69.617	100.00	ug/L	13.9	69.6	30	40 - 110
4-Nitrophenol	MS	408395-10RE	ND	20.803	50.000	ug/L		41.6		10 - 110
	MSD	408395-10RE	ND	20.273	50.000	ug/L	2.6	40.5	30	10 - 110
Pentachlorophenol	MS	408395-10RE	ND	40.810	50.000	ug/L		81.6		30 - 120
	MSD	408395-10RE	ND	41.662	50.000	ug/L	2.1	83.3	30	30 - 120
Phenol	MS	408395-10RE	ND	15.754	50.000	ug/L		31.5		20 - 110
	MSD	408395-10RE	ND	17.761	50.000	ug/L	12.0	35.5	30	20 - 110
2,4,6-Trichlorophenol	MS	408395-10RE	ND	43.747	50.000	ug/L		87.5		50 - 120
	MSD	408395-10RE	ND	45.241	50.000	ug/L	3.4	90.5	30	50 - 120

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXE0865		Used client sample: N								
Pyridine	MS	408395-10RE'	ND	21.715	50.000	ug/L		43.4		1 - 110
	MSD	408395-10RE'	ND	19.963	50.000	ug/L	8.4	39.9	30	1 - 110
2-Fluorophenol (Surrogate)	MS	408395-10RE'	ND	34.416	80.000	ug/L		43.0		30 - 120
	MSD	408395-10RE'	ND	37.267	80.000	ug/L	8.0	46.6		30 - 120
Phenol-d5 (Surrogate)	MS	408395-10RE'	ND	26.582	80.000	ug/L		33.2		12 - 110
	MSD	408395-10RE'	ND	30.012	80.000	ug/L	12.1	37.5		12 - 110
Nitrobenzene-d5 (Surrogate)	MS	408395-10RE'	ND	62.170	80.000	ug/L		77.7		60 - 130
	MSD	408395-10RE'	ND	67.240	80.000	ug/L	7.8	84.0		60 - 130
2-Fluorobiphenyl (Surrogate)	MS	408395-10RE'	ND	54.125	80.000	ug/L		67.7		55 - 125
	MSD	408395-10RE'	ND	56.648	80.000	ug/L	4.6	70.8		55 - 125
2,4,6-Tribromophenol (Surrogate)	MS	408395-10RE'	ND	61.133	80.000	ug/L		76.4		40 - 150
	MSD	408395-10RE'	ND	65.029	80.000	ug/L	6.2	81.3		40 - 150
p-Terphenyl-d14 (Surrogate)	MS	408395-10RE'	ND	28.838	40.000	ug/L		72.1		40 - 150
	MSD	408395-10RE'	ND	30.788	40.000	ug/L	6.5	77.0		40 - 150

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0865						
1-Acetyl-2-thiourea	BXE0865-BLK2	0	ug/L			
2-Aminoanthraquinone	BXE0865-BLK2	0	ug/L			
3-Amino-9-ethylcarbazole	BXE0865-BLK2	0	ug/L			
Anilazine	BXE0865-BLK2	0	ug/L			
o-Anisidine	BXE0865-BLK2	0	ug/L			
Azinphos methyl	BXE0865-BLK2	0	ug/L			
Barban	BXE0865-BLK2	0	ug/L			
p-Benzoquinone	BXE0865-BLK2	0	ug/L			
Bromoxynil	BXE0865-BLK2	0	ug/L			
Captafol	BXE0865-BLK2	0	ug/L			
Captan	BXE0865-BLK2	0	ug/L			
Carbaryl	BXE0865-BLK2	0	ug/L			
Carbofuran	BXE0865-BLK2	0	ug/L			
Carbophenothion	BXE0865-BLK2	0	ug/L			
Chlorfenvinphos	BXE0865-BLK2	0	ug/L			
5-Chloro-2-methylaniline	BXE0865-BLK2	0	ug/L			
3-(Chloromethyl) pyridine hydrochloride	BXE0865-BLK2	0	ug/L			
4-Chloro-1,2-phenylenediamine	BXE0865-BLK2	0	ug/L			
4-Chloro-1,3-phenylenediamine	BXE0865-BLK2	0	ug/L			
Coumaphos	BXE0865-BLK2	0	ug/L			
p-Cresidine	BXE0865-BLK2	0	ug/L			
Crotoxphos	BXE0865-BLK2	0	ug/L			
2-Cyclohexyl-4,6-dinitrophenol	BXE0865-BLK2	0	ug/L			
Demeton-O	BXE0865-BLK2	0	ug/L			
Demeton-S	BXE0865-BLK2	0	ug/L			
2,4-Diaminotoluene	BXE0865-BLK2	0	ug/L			
Dibenz[a,j]acridine	BXE0865-BLK2	0	ug/L			
Dibenzo[a,e]pyrene	BXE0865-BLK2	0	ug/L			
1,2-Dibromo-3-chloropropane	BXE0865-BLK2	0	ug/L			
Dichlone	BXE0865-BLK2	0	ug/L			
Dichlorvos	BXE0865-BLK2	0	ug/L			
Dicrotophos	BXE0865-BLK2	0	ug/L			
Diethylstilbestrol	BXE0865-BLK2	0	ug/L			
Diethyl sulfate	BXE0865-BLK2	0	ug/L			

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0865						
Dihydrosafrole	BXE0865-BLK2	0	ug/L			
3,3'-Dimethoxybenzidine	BXE0865-BLK2	0	ug/L			
1,2-Dinitrobenzene	BXE0865-BLK2	0	ug/L			
1,4-Dinitrobenzene	BXE0865-BLK2	0	ug/L			
Dinocap	BXE0865-BLK2	0	ug/L			
Dioxathion	BXE0865-BLK2	0	ug/L			
5,5-Diphenylhydantoin	BXE0865-BLK2	0	ug/L			
Endrin ketone	BXE0865-BLK2	0	ug/L			
EPN	BXE0865-BLK2	0	ug/L			
Ethion	BXE0865-BLK2	0	ug/L			
Ethyl carbamate	BXE0865-BLK2	0	ug/L			
Fensulfothion	BXE0865-BLK2	0	ug/L			
Fenthion	BXE0865-BLK2	0	ug/L			
Fluchloralin	BXE0865-BLK2	0	ug/L			
Hexamethylphosphoramide	BXE0865-BLK2	0	ug/L			
Hydroquinone	BXE0865-BLK2	0	ug/L			
Leptophos	BXE0865-BLK2	0	ug/L			
Malathion	BXE0865-BLK2	0	ug/L			
Maleic Anhydride	BXE0865-BLK2	0	ug/L			
Mestranol	BXE0865-BLK2	0	ug/L			
4,4'-Methylenebis(2-chloroaniline)	BXE0865-BLK2	0	ug/L			
4,4'-Methylenebis[N,N-dimethylaniline]	BXE0865-BLK2	0	ug/L			
Mevinphos	BXE0865-BLK2	0	ug/L			
Mexacarbate	BXE0865-BLK2	0	ug/L			
Mirex	BXE0865-BLK2	0	ug/L			
Monocrotophos	BXE0865-BLK2	0	ug/L			
Naled	BXE0865-BLK2	0	ug/L			
Nicotine	BXE0865-BLK2	0	ug/L			
5-Nitroacenaphthene	BXE0865-BLK2	0	ug/L			
5-Nitro-o-anisidine	BXE0865-BLK2	0	ug/L			
4-Nitrobiphenyl	BXE0865-BLK2	0	ug/L			
Nitrophen	BXE0865-BLK2	0	ug/L			
Octamethylpyrophosphoramide	BXE0865-BLK2	0	ug/L			
4,4'-Oxydianiline	BXE0865-BLK2	0	ug/L			

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3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0865						
Phenobarbital	BXE0865-BLK2	0	ug/L			
Phosalone	BXE0865-BLK2	0	ug/L			
Phosmet	BXE0865-BLK2	0	ug/L			
Phosphamidon	BXE0865-BLK2	0	ug/L			
Phthalic anhydride	BXE0865-BLK2	0	ug/L			
Piperonyl sulfoxide	BXE0865-BLK2	0	ug/L			
Propylthiouracil	BXE0865-BLK2	0	ug/L			
Resorcinol	BXE0865-BLK2	0	ug/L			
Strychnine	BXE0865-BLK2	0	ug/L			
Sulfallate	BXE0865-BLK2	0	ug/L			
Terbufos	BXE0865-BLK2	0	ug/L			
Tetrachlorvinphos	BXE0865-BLK2	0	ug/L			
TEPP	BXE0865-BLK2	0	ug/L			
Thiophenol (Benzenethiol)	BXE0865-BLK2	0	ug/L			
Toluene 2,4-diisocyanate	BXE0865-BLK2	0	ug/L			
Trifluralin	BXE0865-BLK2	0	ug/L			
2,4,5-Trimethylaniline	BXE0865-BLK2	0	ug/L			
Trimethyl phosphate	BXE0865-BLK2	0	ug/L			
Tris(2,3-dibromopropyl) phosphate	BXE0865-BLK2	0	ug/L			
Tri-p-tolyl phosphate	BXE0865-BLK2	0	ug/L			

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0883						
Acenaphthene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Acenaphthylene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Anthracene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Benzo[a]anthracene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Benzo[b]fluoranthene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Benzo[k]fluoranthene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Benzo[a]pyrene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Benzo[g,h,i]perylene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Chrysene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Dibenzo[a,h]anthracene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Fluoranthene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Fluorene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Indeno[1,2,3-cd]pyrene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Naphthalene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Phenanthrene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Pyrene	BXE0883-BLK1	ND	ug/L	0.10	0.034	
Nitrobenzene-d5 (Surrogate)	BXE0883-BLK1	99.7	%	42 - 130 (LCL - UCL)		
2-Fluorobiphenyl (Surrogate)	BXE0883-BLK1	88.9	%	50 - 116 (LCL - UCL)		
p-Terphenyl-d14 (Surrogate)	BXE0883-BLK1	89.1	%	43 - 134 (LCL - UCL)		

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Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXE0883										
Acenaphthene	BXE0883-BS1	LCS	0.93000	1.0000	ug/L	93.0		60 - 110		
Acenaphthylene	BXE0883-BS1	LCS	0.93000	1.0000	ug/L	93.0		56 - 120		
Anthracene	BXE0883-BS1	LCS	0.96000	1.0000	ug/L	96.0		57 - 128		
Benzo[a]anthracene	BXE0883-BS1	LCS	0.96000	1.0000	ug/L	96.0		64 - 130		
Benzo[b]fluoranthene	BXE0883-BS1	LCS	1.1000	1.0000	ug/L	110		50 - 130		
Benzo[k]fluoranthene	BXE0883-BS1	LCS	1.0500	1.0000	ug/L	105		60 - 120		
Benzo[a]pyrene	BXE0883-BS1	LCS	1.0200	1.0000	ug/L	102		60 - 125		
Benzo[g,h,i]perylene	BXE0883-BS1	LCS	0.94000	1.0000	ug/L	94.0		44 - 120		
Chrysene	BXE0883-BS1	LCS	0.94000	1.0000	ug/L	94.0		60 - 110		
Dibenzo[a,h]anthracene	BXE0883-BS1	LCS	0.98000	1.0000	ug/L	98.0		40 - 120		
Fluoranthene	BXE0883-BS1	LCS	0.92000	1.0000	ug/L	92.0		60 - 120		
Fluorene	BXE0883-BS1	LCS	0.95000	1.0000	ug/L	95.0		60 - 120		
Indeno[1,2,3-cd]pyrene	BXE0883-BS1	LCS	1.0100	1.0000	ug/L	101		40 - 130		
Naphthalene	BXE0883-BS1	LCS	0.92000	1.0000	ug/L	92.0		60 - 110		
Phenanthrene	BXE0883-BS1	LCS	0.92000	1.0000	ug/L	92.0		60 - 120		
Pyrene	BXE0883-BS1	LCS	0.85000	1.0000	ug/L	85.0		50 - 125		
Nitrobenzene-d5 (Surrogate)	BXE0883-BS1	LCS	3.8400	4.0000	ug/L	96.0		42 - 130		
2-Fluorobiphenyl (Surrogate)	BXE0883-BS1	LCS	3.5400	4.0000	ug/L	88.5		50 - 116		
p-Terphenyl-d14 (Surrogate)	BXE0883-BS1	LCS	3.4100	4.0000	ug/L	85.2		43 - 134		

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Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	Percent Recovery	
QC Batch ID: BXE0883		Used client sample: N								
Acenaphthene	MS	1407468-52	ND	0.98000	1.0000	ug/L		98.0	61 - 110	
	MSD	1407468-52	ND	0.85360	1.0000	ug/L	13.8	85.4	30	61 - 110
Acenaphthylene	MS	1407468-52	ND	0.98000	1.0000	ug/L		98.0	60 - 120	
	MSD	1407468-52	ND	0.86330	1.0000	ug/L	12.7	86.3	30	60 - 120
Anthracene	MS	1407468-52	ND	1.0290	1.0000	ug/L		103	61 - 120	
	MSD	1407468-52	ND	0.94090	1.0000	ug/L	8.9	94.1	30	61 - 120
Benzo[a]anthracene	MS	1407468-52	ND	1.0290	1.0000	ug/L		103	56 - 121	
	MSD	1407468-52	ND	0.93120	1.0000	ug/L	10.0	93.1	30	56 - 121
Benzo[b]fluoranthene	MS	1407468-52	ND	1.1662	1.0000	ug/L		117	50 - 130	
	MSD	1407468-52	ND	1.0379	1.0000	ug/L	11.6	104	30	50 - 130
Benzo[k]fluoranthene	MS	1407468-52	ND	1.0878	1.0000	ug/L		109	60 - 120	
	MSD	1407468-52	ND	0.97000	1.0000	ug/L	11.4	97.0	30	60 - 120
Benzo[a]pyrene	MS	1407468-52	ND	1.0780	1.0000	ug/L		108	60 - 120	
	MSD	1407468-52	ND	1.0088	1.0000	ug/L	6.6	101	30	60 - 120
Benzo[g,h,i]perylene	MS	1407468-52	ND	0.99960	1.0000	ug/L		100	45 - 120	
	MSD	1407468-52	ND	0.83420	1.0000	ug/L	18.0	83.4	30	45 - 120
Chrysene	MS	1407468-52	ND	0.98980	1.0000	ug/L		99.0	60 - 110	
	MSD	1407468-52	ND	0.88270	1.0000	ug/L	11.4	88.3	30	60 - 110
Dibenzo[a,h]anthracene	MS	1407468-52	ND	1.0094	1.0000	ug/L		101	40 - 120	
	MSD	1407468-52	ND	0.87300	1.0000	ug/L	14.5	87.3	30	40 - 120
Fluoranthene	MS	1407468-52	ND	0.98000	1.0000	ug/L		98.0	60 - 120	
	MSD	1407468-52	ND	0.85360	1.0000	ug/L	13.8	85.4	30	60 - 120
Fluorene	MS	1407468-52	ND	1.0094	1.0000	ug/L		101	60 - 120	
	MSD	1407468-52	ND	0.87300	1.0000	ug/L	14.5	87.3	30	60 - 120
Indeno[1,2,3-cd]pyrene	MS	1407468-52	ND	1.0780	1.0000	ug/L		108	40 - 130	
	MSD	1407468-52	ND	0.90210	1.0000	ug/L	17.8	90.2	30	40 - 130
Naphthalene	MS	1407468-52	ND	0.98980	1.0000	ug/L		99.0	60 - 110	
	MSD	1407468-52	ND	0.83420	1.0000	ug/L	17.1	83.4	30	60 - 110
Phenanthrene	MS	1407468-52	ND	0.96040	1.0000	ug/L		96.0	60 - 120	
	MSD	1407468-52	ND	0.84390	1.0000	ug/L	12.9	84.4	30	60 - 120
Pyrene	MS	1407468-52	ND	0.89180	1.0000	ug/L		89.2	50 - 125	
	MSD	1407468-52	ND	0.83420	1.0000	ug/L	6.7	83.4	30	50 - 125
Nitrobenzene-d5 (Surrogate)	MS	1407468-52	ND	4.0474	4.0000	ug/L		101	42 - 130	
	MSD	1407468-52	ND	3.4629	4.0000	ug/L	15.6	86.6		42 - 130
2-Fluorobiphenyl (Surrogate)	MS	1407468-52	ND	3.7142	4.0000	ug/L		92.9	50 - 116	
	MSD	1407468-52	ND	3.2398	4.0000	ug/L	13.6	81.0		50 - 116

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Polynuclear Aromatic Hydrocarbons (EPA Method 8270C-SIM)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: BXE0883		Used client sample: N									
p-Terphenyl-d14 (Surrogate)	MS	1407468-52	ND	3.6260	4.0000	ug/L		90.6	43	134	
	MSD	1407468-52	ND	3.3174	4.0000	ug/L	8.9	82.9	43	134	

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Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0295						
Chloride	BXE0295-BLK1	ND	mg/L	0.50	0.067	
Nitrate as N	BXE0295-BLK1	ND	mg/L	0.10	0.025	
Sulfate	BXE0295-BLK1	ND	mg/L	1.0	0.18	
QC Batch ID: BXE0339						
Bicarbonate	BXE0339-BLK1	ND	mg/L	5.0	5.0	
Carbonate	BXE0339-BLK1	ND	mg/L	2.5	2.5	
Total Alkalinity as CaCO3	BXE0339-BLK1	ND	mg/L	4.1	4.1	
QC Batch ID: BXE0354						
Nitrite as N	BXE0354-BLK1	ND	mg/L	0.050	0.010	
QC Batch ID: BXE0355						
ortho-Phosphate as P	BXE0355-BLK1	0.0043570	mg/L	0.020	0.0040	J
QC Batch ID: BXE0593						
Total Dissolved Solids @ 180 C	BXE0593-BLK1	ND	mg/L	6.7	6.7	
QC Batch ID: BXE0952						
Total Recoverable Calcium	BXE0952-BLK1	ND	mg/L	0.10	0.014	
Total Recoverable Magnesium	BXE0952-BLK1	0.027532	mg/L	0.050	0.019	J
Total Recoverable Sodium	BXE0952-BLK1	0.16074	mg/L	0.50	0.017	J
Total Recoverable Potassium	BXE0952-BLK1	ND	mg/L	1.0	0.10	
QC Batch ID: BXE1396						
Perchlorate	BXE1396-BLK1	ND	ug/L	4.0	0.45	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	Control Limits		Lab
							RPD	Percent Recovery	
QC Batch ID: BXE0295									
Chloride	BXE0295-BS1	LCS	52.840	50.000	mg/L	106		90 - 110	
Nitrate as N	BXE0295-BS1	LCS	5.2880	5.0000	mg/L	106		90 - 110	
Sulfate	BXE0295-BS1	LCS	105.14	100.00	mg/L	105		90 - 110	
QC Batch ID: BXE0339									
Total Alkalinity as CaCO3	BXE0339-BS3	LCS	99.340	100.00	mg/L	99.3		90 - 110	
pH	BXE0339-BS2	LCS	7.0100	7.0000	pH Units	100		95 - 105	
QC Batch ID: BXE0354									
Nitrite as N	BXE0354-BS1	LCS	0.51808	0.50000	mg/L	104		90 - 110	
QC Batch ID: BXE0355									
ortho-Phosphate as P	BXE0355-BS1	LCS	0.20018	0.20000	mg/L	100		90 - 110	
QC Batch ID: BXE0593									
Total Dissolved Solids @ 180 C	BXE0593-BS1	LCS	540.00	586.00	mg/L	92.2		90 - 110	
QC Batch ID: BXE0952									
Total Recoverable Calcium	BXE0952-BS1	LCS	10.218	10.000	mg/L	102		85 - 115	
Total Recoverable Magnesium	BXE0952-BS1	LCS	10.751	10.000	mg/L	108		85 - 115	
Total Recoverable Sodium	BXE0952-BS1	LCS	10.407	10.000	mg/L	104		85 - 115	
Total Recoverable Potassium	BXE0952-BS1	LCS	10.237	10.000	mg/L	102		85 - 115	
QC Batch ID: BXE1396									
Perchlorate	BXE1396-BS1	LCS	10.165	10.000	ug/L	102		85 - 115	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)
Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes QC Batch IDs: BXE0295, BXE0339, BXE0354, BXE0355, BXE0593, BXE0952.

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Water Analysis (General Chemistry)

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Percent Recovery	Control Limits		Lab Quals
									RPD	Percent Recovery	
QC Batch ID: BXE0952		Used client sample: N									
Total Recoverable Potassium	DUP	1410020-01	5.1318	5.4934		mg/L	6.8		20		
	MS	1410020-01	5.1318	14.992	10.000	mg/L		98.6		75 - 125	
	MSD	1410020-01	5.1318	15.260	10.000	mg/L	1.8	101	20	75 - 125	
QC Batch ID: BXE1396		Used client sample: Y - Description: MW-8, 05/02/2014 10:22									
Perchlorate	DUP	1409784-02	46.652	51.354		ug/L	9.6		15		
	MS	1409784-02	46.652	98.486	50.505	ug/L		103		80 - 120	
	MSD	1409784-02	46.652	96.222	50.505	ug/L	2.3	98.1	15	80 - 120	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE0297						
Hexavalent Chromium	BXE0297-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BXE0952						
Total Recoverable Iron	BXE0952-BLK1	12.530	ug/L	50	6.5	J
QC Batch ID: BXE0954						
Total Recoverable Arsenic	BXE0954-BLK1	ND	ug/L	2.0	0.70	
Total Recoverable Chromium	BXE0954-BLK1	ND	ug/L	3.0	0.50	
Total Recoverable Lead	BXE0954-BLK1	ND	ug/L	1.0	0.10	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXE0297										
Hexavalent Chromium	BXE0297-BS1	LCS	0.049965	0.050000	mg/L	99.9		85	115	
QC Batch ID: BXE0952										
Total Recoverable Iron	BXE0952-BS1	LCS	1120.6	1000.0	ug/L	112		85	115	
QC Batch ID: BXE0954										
Total Recoverable Arsenic	BXE0954-BS1	LCS	97.889	100.00	ug/L	97.9		85	115	
Total Recoverable Chromium	BXE0954-BS1	LCS	38.322	40.000	ug/L	95.8		85	115	
Total Recoverable Lead	BXE0954-BS1	LCS	106.59	100.00	ug/L	107		85	115	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXE0297		Used client sample: Y - Description: MW-8, 05/02/2014 10:22								
Hexavalent Chromium	DUP	1409784-02	0.00096100	0.00099800		mg/L	3.8		10	J
	MS	1409784-02	0.00096100	0.052963	0.052632	mg/L		98.8	85 - 115	
	MSD	1409784-02	0.00096100	0.052999	0.052632	mg/L	0.1	98.9	10 85 - 115	
QC Batch ID: BXE0952		Used client sample: N								
Total Recoverable Iron	DUP	1410020-01	176.57	191.63		ug/L	8.2		20	
	MS	1410020-01	176.57	1215.7	1000.0	ug/L		104	75 - 125	
	MSD	1410020-01	176.57	1258.3	1000.0	ug/L	3.4	108	20 75 - 125	
QC Batch ID: BXE0954		Used client sample: Y - Description: MW-8, 05/02/2014 10:22								
Total Recoverable Arsenic	DUP	1409784-02	ND	0.74300		ug/L			20	J
	MS	1409784-02	ND	100.62	100.00	ug/L		101	70 - 130	
	MSD	1409784-02	ND	100.11	100.00	ug/L	0.5	100	20 70 - 130	
Total Recoverable Chromium	DUP	1409784-02	1.7200	1.7160		ug/L	0.2		20	J
	MS	1409784-02	1.7200	38.242	40.000	ug/L		91.3	70 - 130	
	MSD	1409784-02	1.7200	38.764	40.000	ug/L	1.4	92.6	20 70 - 130	
Total Recoverable Lead	DUP	1409784-02	ND	ND		ug/L			20	
	MS	1409784-02	ND	101.03	100.00	ug/L		101	70 - 130	
	MSD	1409784-02	ND	101.39	100.00	ug/L	0.4	101	20 70 - 130	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:26
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- A01 PQL's and MDL's are raised due to sample dilution.
- A03 The sample concentration is more than 4 times the spike level.
- S05 The sample holding time was exceeded.
- V11 The Continuing Calibration Verification (CCV) recovery is not within established control limits.



Date of Report: 05/23/2014

David Conner

Tidewater Inc.

3761 Attucks Drive
Powell, OH 43065

Client Project: 2nd Qtr.
BCL Project: JPL- GW Monitoring Wells
BCL Work Order: 1410817
Invoice ID: B173931

Enclosed are the results of analyses for samples received by the laboratory on 5/14/2014. 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; AK UST101

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Chain of Custody Form

Report To: Tidewater, Inc. Client: Tidewater, Inc. (P.O. #1213-000-02)
 Attn: David Conner Attn: As directed by Ben Headington
 Street Address: 3761 Attucks Drive Address: 6625 Selnick Drive, Suite A
 City: Powell State: OH Zip: 43065 City: Elkridge State: MD Zip: 21075
 Phone: (614) 792-2897 Fax: (614) 792-2897
 Email Address: david.conner@tideh2o.net
 Submission #: 14-10817

Project Description: JPL-GW Monitoring
 Project Code: 2nd Ctr.
 Sampler(s): Blaine Tech

Analysis Requested

Sample #	Sample Description	Date	Time	Matrix*
-1	SB-4-5/14/14	5-14-14	0800	AP
-2	EB-9-5/14/14		0810	
-3	MW-12-5		0910	
-4	MW-12-4		0930	
-5	MW-12-3		0945	
-6	MW-12-2		0955	
-7	MW-12-1		1010	
-8	DUP-4-2014		1030	
-9	MW-4-2		1210	
-10	MW-26-2		1420	
-11	MW-26-1		1435	

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 Normal (10 - Days)
 Lab TAT Approval: *Additional Charges May Apply

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

Global ID: 1. Relinquished By: [Signature] Date: 5-14-14 Time: 11:05
 2. Relinquished By: [Signature] Date: 05/14/14 Time: 1657
 3. Relinquished By: [Signature] Date: 5/14/14 Time: 21:15

Cost Center: 1. Received By: [Signature] Date: 05/14/14 Time: 1615
 2. Received By: [Signature] Date: 5/14/14 Time: 1657
 3. Received By: [Signature] Date: 5/14/14 Time: 21:15

Notes: SHORT HOLDING TIME
 Cr⁶ NO₂ NO₃ OP SS
 DO Cl₂ BOD MEAS COT
 CHK BY: [Signature]
 DISTRIBUTION: [Signature]
 SUB-OUT: [Signature]

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. 15 07/01/13 Page 1 Of 2

Submission #: 14-10817

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: 0.95 Container: PE Thermometer ID: 207 Date/Time: 5-14-11 2:15
 Temperature: (A) 10.5 °C (C) 1.5 °C Analyst Init: JN

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL										
PT PE UNPRESERVED 8oz	A	A	A	A	A	A	A	A		A
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	()	()	()	()	()	()	()	()	()	()
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER 8oz 8210										AB
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments:
 Sample Numbering Completed By: CM Date/Time: 5-14-11 7:30



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

Submission #: 14-10817

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: 0.95 Container: PE Thermometer ID: 207 Date/Time: 5-19-14 2115
 Temperature: (A) 1.5 °C (C) 1.5 °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 8oz	A									
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	()	()	()	()	()	()	()	()	()	()
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: M Date/Time: 5-19-14 1150



Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 11:14
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1410817-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: SB-4-5/14/14 Sampled By: Blaine Tech of BAT	Receive Date: 05/14/2014 21:15 Sampling Date: 05/14/2014 08:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): SB-4-5/14/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1410817-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: EB-9-5/14/14 Sampled By: Blaine Tech of BAT	Receive Date: 05/14/2014 21:15 Sampling Date: 05/14/2014 08:10 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-9-5/14/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1410817-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-12-5 Sampled By: Blaine Tech of BAT	Receive Date: 05/14/2014 21:15 Sampling Date: 05/14/2014 09:10 Sample Depth: --- Lab Matrix: Water Sample Type: Water 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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 11:14
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1410817-04	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-12-4 Sampled By: Blaine Tech of BAT	Receive Date: 05/14/2014 21:15 Sampling Date: 05/14/2014 09:30 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-12-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1410817-05	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-12-3 Sampled By: Blaine Tech of BAT	Receive Date: 05/14/2014 21:15 Sampling Date: 05/14/2014 09:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-12-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1410817-06	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-12-2 Sampled By: Blaine Tech of BAT	Receive Date: 05/14/2014 21:15 Sampling Date: 05/14/2014 09:55 Sample Depth: --- Lab Matrix: Water Sample Type: Water 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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 11:14
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1410817-07	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-12-1 Sampled By: Blaine Tech of BAT	Receive Date: 05/14/2014 21:15 Sampling Date: 05/14/2014 10:10 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-12-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1410817-08	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: DUP-4-2Q14 Sampled By: Blaine Tech of BAT	Receive Date: 05/14/2014 21:15 Sampling Date: 05/14/2014 10:20 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): DUP-4-2Q14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	--	---

1410817-09	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-4-2 Sampled By: Blaine Tech of BAT	Receive Date: 05/14/2014 21:15 Sampling Date: 05/14/2014 12:10 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-4-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 11:14
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

Laboratory	Client Sample Information
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1410817-10	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-26-2 Sampled By: Blaine Tech of BAT	Receive Date: 05/14/2014 21:15 Sampling Date: 05/14/2014 14:20 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-26-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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1410817-11	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-26-1 Sampled By: Blaine Tech of BAT	Receive Date: 05/14/2014 21:15 Sampling Date: 05/14/2014 14:35 Sample Depth: --- Lab Matrix: Water Sample Type: 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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Powell, OH 43065

Reported: 05/23/2014 11:14
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1410817-01	Client Sample Name: JPL-GW, SB-4-5/14/14, 5/14/2014 8:00:00AM, 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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/15/14	05/15/14 01:02	TDC	KONE-1	1	BXE1423

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Reported: 05/23/2014 11:14
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1410817-02	Client Sample Name: JPL-GW, EB-9-5/14/14, 5/14/2014 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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/15/14	05/15/14 00:38	OLH	KONE-1	1	BXE1423

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Reported: 05/23/2014 11:14
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1410817-03	Client Sample Name: JPL-GW, MW-12-5, 5/14/2014 9:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.00086	mg/L	0.0020	0.00070	EPA-7196	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/15/14	05/15/14 00:38	OLH	KONE-1	1	BXE1423

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Reported: 05/23/2014 11:14
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1410817-04	Client Sample Name: JPL-GW, MW-12-4, 5/14/2014 9:30:00AM, 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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/15/14	05/15/14 00:38	OLH	KONE-1	1	BXE1423

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Reported: 05/23/2014 11:14
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1410817-05	Client Sample Name: JPL-GW, MW-12-3, 5/14/2014 9:45:00AM, 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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/15/14	05/15/14 00:38	OLH	KONE-1	1	BXE1423

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Reported: 05/23/2014 11:14
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1410817-06	Client Sample Name: JPL-GW, MW-12-2, 5/14/2014 9:55:00AM, 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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/15/14	05/15/14 00:44	OLH	KONE-1	1	BXE1423

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Reported: 05/23/2014 11:14
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1410817-07	Client Sample Name: JPL-GW, MW-12-1, 5/14/2014 10:10:00AM, 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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/15/14	05/15/14 00:44	OLH	KONE-1	1	BXE1423

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Reported: 05/23/2014 11:14
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1410817-08	Client Sample Name: JPL-GW, DUP-4-2Q14, 5/14/2014 10:20:00AM, 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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/15/14	05/15/14 00:44	OLH	KONE-1	1	BXE1423

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Reported: 05/23/2014 11:14
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1410817-09	Client Sample Name: JPL-GW, MW-4-2, 5/14/2014 12:10:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Acenaphthylene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Aldrin	ND	ug/L	2.0	0.35	EPA-8270C	ND		1
Aniline	ND	ug/L	5.0	0.69	EPA-8270C	ND		1
Anthracene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Benzidine	ND	ug/L	20	7.1	EPA-8270C	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	0.38	EPA-8270C	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	0.41	EPA-8270C	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
Benzoic acid	ND	ug/L	10	5.8	EPA-8270C	ND		1
Benzyl alcohol	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	0.47	EPA-8270C	ND		1
alpha-BHC	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
beta-BHC	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
delta-BHC	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.0	0.68	EPA-8270C	ND		1
bis(2-Chloroisopropyl) ether	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
bis(2-Ethylhexyl)phthalate	ND	ug/L	4.0	3.0	EPA-8270C	ND		1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
4-Chloroaniline	ND	ug/L	2.0	0.69	EPA-8270C	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
Chrysene	ND	ug/L	2.0	0.63	EPA-8270C	ND		1
4,4'-DDD	ND	ug/L	2.0	0.48	EPA-8270C	ND		1
4,4'-DDE	ND	ug/L	3.0	0.41	EPA-8270C	ND		1
4,4'-DDT	ND	ug/L	2.0	0.43	EPA-8270C	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	0.26	EPA-8270C	ND		1
Dibenzofuran	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	0.37	EPA-8270C	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 11:14
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1410817-09	Client Sample Name: JPL-GW, MW-4-2, 5/14/2014 12:10:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	2.0	0.35	EPA-8270C	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	8.2	EPA-8270C	ND		1
Dieldrin	ND	ug/L	3.0	0.41	EPA-8270C	ND		1
Diethyl phthalate	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.39	EPA-8270C	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	0.39	EPA-8270C	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.41	EPA-8270C	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.46	EPA-8270C	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
Endosulfan I	ND	ug/L	10	1.7	EPA-8270C	ND		1
Endosulfan II	ND	ug/L	10	1.2	EPA-8270C	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.58	EPA-8270C	ND		1
Endrin	ND	ug/L	2.0	1.1	EPA-8270C	ND		1
Endrin aldehyde	ND	ug/L	10	0.52	EPA-8270C	ND		1
Fluoranthene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Fluorene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Heptachlor	ND	ug/L	2.0	0.32	EPA-8270C	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
Hexachlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Hexachlorobutadiene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Hexachlorocyclopentadiene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Hexachloroethane	ND	ug/L	2.0	0.32	EPA-8270C	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
Isophorone	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Naphthalene	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
2-Naphthylamine	ND	ug/L	20	4.8	EPA-8270C	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.66	EPA-8270C	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.87	EPA-8270C	ND		1
Nitrobenzene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 11:14
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1410817-09	Client Sample Name: JPL-GW, MW-4-2, 5/14/2014 12:10:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.0	0.61	EPA-8270C	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	1.3	EPA-8270C	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	0.44	EPA-8270C	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Pyrene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.40	EPA-8270C	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.37	EPA-8270C	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.43	EPA-8270C	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.34	EPA-8270C	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-8270C	ND		1
2-Methylphenol	ND	ug/L	2.0	1.0	EPA-8270C	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	1.6	EPA-8270C	ND		1
Total Methylphenol	ND	ug/L	4.0	2.6	EPA-8270C	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.73	EPA-8270C	ND		1
Pentachlorophenol	ND	ug/L	10	0.79	EPA-8270C	ND		1
Phenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.31	EPA-8270C	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.60	EPA-8270C	ND		1
Acetophenone	ND	ug/L	10	3.0	EPA-8270C	ND		1
2-Acetylaminofluorene	ND	ug/L	10	0.38	EPA-8270C	ND		1
Acrolein, dimethyl acetal	ND	ug/L	40	7.7	EPA-8270C	ND		1
4-Aminobiphenyl	ND	ug/L	20	5.2	EPA-8270C	ND		1
Aramite	ND	ug/L	10	2.3	EPA-8270C	ND		1
Benefin	ND	ug/L	10	0.88	EPA-8270C	ND		1
Carbazole	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
cis-Chlordane	ND	ug/L	5.0	0.30	EPA-8270C	ND		1
trans-Chlordane	ND	ug/L	5.0	0.40	EPA-8270C	ND		1
Chlorobenzilate	ND	ug/L	10	0.29	EPA-8270C	ND		1
1-Chloronaphthalene	ND	ug/L	10	0.28	EPA-8270C	ND		1
cis-Diallate	ND	ug/L	5.0	0.21	EPA-8270C	ND		1

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Powell, OH 43065

Reported: 05/23/2014 11:14
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1410817-09	Client Sample Name: JPL-GW, MW-4-2, 5/14/2014 12:10:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
trans-Diallate	ND	ug/L	5.0	0.22	EPA-8270C	ND		1
Diallate	ND	ug/L	10	0.42	EPA-8270C	ND		1
2,6-Dichlorophenol	ND	ug/L	10	1.3	EPA-8270C	ND		1
Dimethoate	ND	ug/L	20	0.46	EPA-8270C	ND		1
p-(Dimethylamino)azobenzene	ND	ug/L	10	0.54	EPA-8270C	ND		1
7,12-Dimethylbenz[a]anthracene	ND	ug/L	10	0.41	EPA-8270C	ND		1
3,3'-Dimethylbenzidine	ND	ug/L	20	5.4	EPA-8270C	ND		1
a,a-Dimethylphenethylamine	ND	ug/L	20	2.5	EPA-8270C	ND		1
Dimethyl sulfoxide (DMSO)	ND	ug/L	10	1.0	EPA-8270C	ND		1
1,3-Dinitrobenzene	ND	ug/L	10	0.23	EPA-8270C	ND		1
Dinoseb	ND	ug/L	10	0.61	EPA-8270C	ND		1
Diphenylamine	ND	ug/L	10	0.20	EPA-8270C	ND		1
Disulfoton	ND	ug/L	10	0.44	EPA-8270C	ND		1
Ethyl methacrylate	ND	ug/L	10	0.19	EPA-8270C	ND		1
Ethyl methanesulfonate	ND	ug/L	10	0.26	EPA-8270C	ND		1
Ethyl Parathion	ND	ug/L	10	0.31	EPA-8270C	ND		1
Famphur	ND	ug/L	20	8.3	EPA-8270C	ND		1
Hexachlorophene	ND	ug/L	200	35	EPA-8270C	ND		1
Hexachloropropene	ND	ug/L	20	0.46	EPA-8270C	ND		1
Isodrin	ND	ug/L	10	0.31	EPA-8270C	ND		1
cis-Isosafrole	ND	ug/L	5.0	0.41	EPA-8270C	ND		1
trans-Isosafrole	ND	ug/L	5.0	0.36	EPA-8270C	ND		1
Isosafrole	ND	ug/L	10	0.76	EPA-8270C	ND		1
Kepone	ND	ug/L	20	1.5	EPA-8270C	ND		1
Methapyrilene	ND	ug/L	10	1.5	EPA-8270C	ND		1
Methoxychlor	ND	ug/L	10	0.40	EPA-8270C	ND		1
3-Methylcholanthrene	ND	ug/L	10	0.56	EPA-8270C	ND		1
Methyl methacrylate	ND	ug/L	40	22	EPA-8270C	ND		1
Methyl methanesulfonate	ND	ug/L	10	0.42	EPA-8270C	ND		1
1-Methylnaphthalene	ND	ug/L	10	0.41	EPA-8270C	ND		1
Methyl parathion	ND	ug/L	10	0.32	EPA-8270C	ND		1
N-Methyl-2-pyrrolidinone	ND	ug/L	10	1.6	EPA-8270C	ND		1
1,4-Naphthoquinone	ND	ug/L	20	2.1	EPA-8270C	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 11:14
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1410817-09	Client Sample Name: JPL-GW, MW-4-2, 5/14/2014 12:10:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1-Naphthylamine	ND	ug/L	20	5.3	EPA-8270C	ND		1
5-Nitro-o-toluidine	ND	ug/L	10	0.44	EPA-8270C	ND		1
4-Nitroquinoline 1-oxide	ND	ug/L	20	12	EPA-8270C	ND		1
N-Nitrosodibutylamine	ND	ug/L	10	0.41	EPA-8270C	ND		1
N-Nitrosodiethylamine	ND	ug/L	10	0.43	EPA-8270C	ND		1
N-Nitrosomethylethylamine	ND	ug/L	10	0.37	EPA-8270C	ND		1
N-Nitrosomorpholine	ND	ug/L	10	0.35	EPA-8270C	ND		1
N-Nitrosopiperidine	ND	ug/L	10	0.44	EPA-8270C	ND		1
N-Nitrosopyrrolidine	ND	ug/L	10	0.44	EPA-8270C	ND		1
Pentachlorobenzene	ND	ug/L	10	0.25	EPA-8270C	ND		1
Pentachloroethane	ND	ug/L	20	1.0	EPA-8270C	ND		1
Pentachloronitrobenzene	ND	ug/L	10	0.30	EPA-8270C	ND		1
Phenacetin	ND	ug/L	10	0.20	EPA-8270C	ND		1
1,4-Phenylenediamine	ND	ug/L	20	2.2	EPA-8270C	ND		1
Phorate	ND	ug/L	10	0.34	EPA-8270C	ND		1
2-Picoline	ND	ug/L	10	0.23	EPA-8270C	ND		1
PCB-1016	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1221	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1232	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1242	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1248	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1254	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1260	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1262	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1268	ND	ug/L	50	25	EPA-8270C	ND		1
Total PCB's (Summation)	ND	ug/L	50	25	EPA-8270C	ND		1
Prometryn	ND	ug/L	10	1.7	EPA-8270C	ND		1
Pronamide	ND	ug/L	10	0.29	EPA-8270C	ND		1
Propyleneglycol monomethyl ether acetate	ND	ug/L	10	4.2	EPA-8270C	ND		1
Prowl	ND	ug/L	10	0.83	EPA-8270C	ND		1
Pyridine	ND	ug/L	10	0.27	EPA-8270C	ND		1
Safrole	ND	ug/L	10	0.33	EPA-8270C	ND		1
Sulfotep	ND	ug/L	10	0.43	EPA-8270C	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 11:14
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1410817-09	Client Sample Name: JPL-GW, MW-4-2, 5/14/2014 12:10:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10	0.39	EPA-8270C	ND		1
2,3,4,5-Tetrachlorophenol	ND	ug/L	10	5.0	EPA-8270C	ND		1
2,3,4,6-Tetrachlorophenol	ND	ug/L	10	4.7	EPA-8270C	ND		1
Thionazin	ND	ug/L	10	0.21	EPA-8270C	ND		1
2-Toluidine	ND	ug/L	10	0.49	EPA-8270C	ND		1
Toxaphene	ND	ug/L	100	50	EPA-8270C	ND		1
o,o,o-Triethylphosphorothioate	ND	ug/L	10	0.42	EPA-8270C	ND		1
1,3,5-Trinitrobenzene	ND	ug/L	10	0.30	EPA-8270C	ND		1
Tris(hydroxymethyl)nitromethane	ND	ug/L	50	5.0	EPA-8270C	ND		1
2-Fluorophenol (Surrogate)	38.5	%	30 - 120 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	16.6	%	12 - 110 (LCL - UCL)		EPA-8270C			1
Nitrobenzene-d5 (Surrogate)	76.5	%	60 - 130 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	189	%	55 - 125 (LCL - UCL)		EPA-8270C		S09	1
2,4,6-Tribromophenol (Surrogate)	111	%	40 - 150 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	158	%	40 - 150 (LCL - UCL)		EPA-8270C		S09	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	05/20/14	05/22/14 17:16	VH1	MS-B2	0.970	BXE1933

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 11:14
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

BCL Sample ID:	1410817-09	Client Sample Name:	JPL-GW, MW-4-2, 5/14/2014 12:10:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1-Acetyl-2-thiourea	0	ug/L			EPA-8270C	0		1
2-Aminoanthraquinone	0	ug/L			EPA-8270C	0		1
3-Amino-9-ethylcarbazole	0	ug/L			EPA-8270C	0		1
Anilazine	0	ug/L			EPA-8270C	0		1
o-Anisidine	0	ug/L			EPA-8270C	0		1
Azinphos methyl	0	ug/L			EPA-8270C	0		1
Barban	0	ug/L			EPA-8270C	0		1
p-Benzoquinone	0	ug/L			EPA-8270C	0		1
Bromoxynil	0	ug/L			EPA-8270C	0		1
Captafol	0	ug/L			EPA-8270C	0		1
Captan	0	ug/L			EPA-8270C	0		1
Carbaryl	0	ug/L			EPA-8270C	0		1
Carbofuran	0	ug/L			EPA-8270C	0		1
Carbophenothion	0	ug/L			EPA-8270C	0		1
Chlorfenvinphos	0	ug/L			EPA-8270C	0		1
5-Chloro-2-methylaniline	0	ug/L			EPA-8270C	0		1
3-(Chloromethyl) pyridine hydrochloride	0	ug/L			EPA-8270C	0		1
4-Chloro-1,2-phenylenediamine	0	ug/L			EPA-8270C	0		1
4-Chloro-1,3-phenylenediamine	0	ug/L			EPA-8270C	0		1
Coumaphos	0	ug/L			EPA-8270C	0		1
p-Cresidine	0	ug/L			EPA-8270C	0		1
Crotoxyphos	0	ug/L			EPA-8270C	0		1
2-Cyclohexyl-4,6-dinitrophenol	0	ug/L			EPA-8270C	0		1
Demeton-O	0	ug/L			EPA-8270C	0		1
Demeton-S	0	ug/L			EPA-8270C	0		1
2,4-Diaminotoluene	0	ug/L			EPA-8270C	0		1
Dibenz[a,j]acridine	0	ug/L			EPA-8270C	0		1
Dibenzo[a,e]pyrene	0	ug/L			EPA-8270C	0		1
1,2-Dibromo-3-chloropropane	0	ug/L			EPA-8270C	0		1
Dichlone	0	ug/L			EPA-8270C	0		1
Dichlorvos	0	ug/L			EPA-8270C	0		1
Dicrotophos	0	ug/L			EPA-8270C	0		1
Diethylstilbestrol	0	ug/L			EPA-8270C	0		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 11:14
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

BCL Sample ID:	1410817-09	Client Sample Name:	JPL-GW, MW-4-2, 5/14/2014 12:10:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl sulfate	0	ug/L			EPA-8270C	0		1
Dihydrosafrole	0	ug/L			EPA-8270C	0		1
3,3'-Dimethoxybenzidine	0	ug/L			EPA-8270C	0		1
1,2-Dinitrobenzene	0	ug/L			EPA-8270C	0		1
1,4-Dinitrobenzene	0	ug/L			EPA-8270C	0		1
Dinocap	0	ug/L			EPA-8270C	0		1
Dioxathion	0	ug/L			EPA-8270C	0		1
5,5-Diphenylhydantoin	0	ug/L			EPA-8270C	0		1
Endrin ketone	0	ug/L			EPA-8270C	0		1
EPN	0	ug/L			EPA-8270C	0		1
Ethion	0	ug/L			EPA-8270C	0		1
Ethyl carbamate	0	ug/L			EPA-8270C	0		1
Fensulfothion	0	ug/L			EPA-8270C	0		1
Fenthion	0	ug/L			EPA-8270C	0		1
Fluchloralin	0	ug/L			EPA-8270C	0		1
Hexamethylphosphoramide	0	ug/L			EPA-8270C	0		1
Hydroquinone	0	ug/L			EPA-8270C	0		1
Leptophos	0	ug/L			EPA-8270C	0		1
Malathion	0	ug/L			EPA-8270C	0		1
Maleic Anhydride	0	ug/L			EPA-8270C	0		1
Mestranol	0	ug/L			EPA-8270C	0		1
4,4'-Methylenebis(2-chloroaniline)	0	ug/L			EPA-8270C	0		1
4,4'-Methylenebis[N,N-dimethylaniline]	0	ug/L			EPA-8270C	0		1
Mevinphos	0	ug/L			EPA-8270C	0		1
Mexacarbate	0	ug/L			EPA-8270C	0		1
Mirex	0	ug/L			EPA-8270C	0		1
Monocrotophos	0	ug/L			EPA-8270C	0		1
Naled	0	ug/L			EPA-8270C	0		1
Nicotine	0	ug/L			EPA-8270C	0		1
5-Nitroacenaphthene	0	ug/L			EPA-8270C	0		1
5-Nitro-o-anisidine	0	ug/L			EPA-8270C	0		1
4-Nitrobiphenyl	0	ug/L			EPA-8270C	0		1
Nitrophen	0	ug/L			EPA-8270C	0		1

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Powell, OH 43065

Reported: 05/23/2014 11:14
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

BCL Sample ID: 1410817-09	Client Sample Name: JPL-GW, MW-4-2, 5/14/2014 12:10:00PM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Octamethylpyrophosphoramidate	0	ug/L			EPA-8270C	0		1
4,4'-Oxydianiline	0	ug/L			EPA-8270C	0		1
Phenobarbital	0	ug/L			EPA-8270C	0		1
Phosalone	0	ug/L			EPA-8270C	0		1
Phosmet	0	ug/L			EPA-8270C	0		1
Phosphamidon	0	ug/L			EPA-8270C	0		1
Phthalic anhydride	0	ug/L			EPA-8270C	0		1
Piperonyl sulfoxide	0	ug/L			EPA-8270C	0		1
Propylthiouracil	0	ug/L			EPA-8270C	0		1
Resorcinol	0	ug/L			EPA-8270C	0		1
Strychnine	0	ug/L			EPA-8270C	0		1
Sulfallate	0	ug/L			EPA-8270C	0		1
Terbufos	0	ug/L			EPA-8270C	0		1
Tetrachlorvinphos	0	ug/L			EPA-8270C	0		1
TEPP	0	ug/L			EPA-8270C	0		1
Thiophenol (Benzenethiol)	0	ug/L			EPA-8270C	0		1
Toluene 2,4-diisocyanate	0	ug/L			EPA-8270C	0		1
Trifluralin	0	ug/L			EPA-8270C	0		1
2,4,5-Trimethylaniline	0	ug/L			EPA-8270C	0		1
Trimethyl phosphate	0	ug/L			EPA-8270C	0		1
Tris(2,3-dibromopropyl) phosphate	0	ug/L			EPA-8270C	0		1
Tri-p-tolyl phosphate	0	ug/L			EPA-8270C	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	05/20/14	05/22/14 17:16	VH1	MS-B2	0.970	BXE1933

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Reported: 05/23/2014 11:14
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1410817-10	Client Sample Name: JPL-GW, MW-26-2, 5/14/2014 2:20:00PM, 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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/15/14	05/15/14 00:44	OLH	KONE-1	1	BXE1423

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Reported: 05/23/2014 11:14
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1410817-11	Client Sample Name: JPL-GW, MW-26-1, 5/14/2014 2:35:00PM, 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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/15/14	05/15/14 00:44	OLH	KONE-1	1	BXE1423

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Reported: 05/23/2014 11:14
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE1933						
Acenaphthene	BXE1933-BLK1	ND	ug/L	2.0	0.24	
Acenaphthylene	BXE1933-BLK1	ND	ug/L	2.0	0.28	
Aldrin	BXE1933-BLK1	ND	ug/L	2.0	0.35	
Aniline	BXE1933-BLK1	ND	ug/L	5.0	0.69	
Anthracene	BXE1933-BLK1	ND	ug/L	2.0	0.30	
Benzidine	BXE1933-BLK1	ND	ug/L	20	7.1	
Benzo[a]anthracene	BXE1933-BLK1	ND	ug/L	2.0	0.38	
Benzo[b]fluoranthene	BXE1933-BLK1	ND	ug/L	2.0	0.41	
Benzo[k]fluoranthene	BXE1933-BLK1	ND	ug/L	2.0	0.31	
Benzo[a]pyrene	BXE1933-BLK1	ND	ug/L	2.0	0.20	
Benzo[g,h,i]perylene	BXE1933-BLK1	ND	ug/L	2.0	0.22	
Benzoic acid	BXE1933-BLK1	ND	ug/L	10	5.8	
Benzyl alcohol	BXE1933-BLK1	ND	ug/L	2.0	0.34	
Benzyl butyl phthalate	BXE1933-BLK1	ND	ug/L	2.0	0.47	
alpha-BHC	BXE1933-BLK1	ND	ug/L	2.0	0.27	
beta-BHC	BXE1933-BLK1	ND	ug/L	2.0	0.27	
delta-BHC	BXE1933-BLK1	ND	ug/L	2.0	0.30	
gamma-BHC (Lindane)	BXE1933-BLK1	ND	ug/L	2.0	0.22	
bis(2-Chloroethoxy)methane	BXE1933-BLK1	ND	ug/L	2.0	0.27	
bis(2-Chloroethyl) ether	BXE1933-BLK1	ND	ug/L	2.0	0.68	
bis(2-Chloroisopropyl)ether	BXE1933-BLK1	ND	ug/L	2.0	0.30	
bis(2-Ethylhexyl)phthalate	BXE1933-BLK1	ND	ug/L	4.0	3.0	
4-Bromophenyl phenyl ether	BXE1933-BLK1	ND	ug/L	2.0	0.23	
4-Chloroaniline	BXE1933-BLK1	ND	ug/L	2.0	0.69	
2-Chloronaphthalene	BXE1933-BLK1	ND	ug/L	2.0	0.34	
4-Chlorophenyl phenyl ether	BXE1933-BLK1	ND	ug/L	2.0	0.23	
Chrysene	BXE1933-BLK1	ND	ug/L	2.0	0.63	
4,4'-DDD	BXE1933-BLK1	ND	ug/L	2.0	0.48	
4,4'-DDE	BXE1933-BLK1	ND	ug/L	3.0	0.41	
4,4'-DDT	BXE1933-BLK1	ND	ug/L	2.0	0.43	
Dibenzo[a,h]anthracene	BXE1933-BLK1	ND	ug/L	3.0	0.26	
Dibenzofuran	BXE1933-BLK1	ND	ug/L	2.0	0.21	
1,2-Dichlorobenzene	BXE1933-BLK1	ND	ug/L	2.0	0.37	
1,3-Dichlorobenzene	BXE1933-BLK1	ND	ug/L	2.0	0.35	

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Reported: 05/23/2014 11:14
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE1933						
1,4-Dichlorobenzene	BXE1933-BLK1	ND	ug/L	2.0	0.31	
3,3-Dichlorobenzidine	BXE1933-BLK1	ND	ug/L	10	8.2	
Dieldrin	BXE1933-BLK1	ND	ug/L	3.0	0.41	
Diethyl phthalate	BXE1933-BLK1	ND	ug/L	2.0	0.33	
Dimethyl phthalate	BXE1933-BLK1	ND	ug/L	2.0	0.39	
Di-n-butyl phthalate	BXE1933-BLK1	ND	ug/L	2.0	0.39	
2,4-Dinitrotoluene	BXE1933-BLK1	ND	ug/L	2.0	0.26	
2,6-Dinitrotoluene	BXE1933-BLK1	ND	ug/L	2.0	0.41	
Di-n-octyl phthalate	BXE1933-BLK1	ND	ug/L	2.0	0.46	
1,2-Diphenylhydrazine	BXE1933-BLK1	ND	ug/L	2.0	0.34	
Endosulfan I	BXE1933-BLK1	ND	ug/L	10	1.7	
Endosulfan II	BXE1933-BLK1	ND	ug/L	10	1.2	
Endosulfan sulfate	BXE1933-BLK1	ND	ug/L	3.0	0.58	
Endrin	BXE1933-BLK1	ND	ug/L	2.0	1.1	
Endrin aldehyde	BXE1933-BLK1	ND	ug/L	10	0.52	
Fluoranthene	BXE1933-BLK1	ND	ug/L	2.0	0.20	
Fluorene	BXE1933-BLK1	ND	ug/L	2.0	0.28	
Heptachlor	BXE1933-BLK1	ND	ug/L	2.0	0.32	
Heptachlor epoxide	BXE1933-BLK1	ND	ug/L	2.0	0.27	
Hexachlorobenzene	BXE1933-BLK1	ND	ug/L	2.0	0.20	
Hexachlorobutadiene	BXE1933-BLK1	ND	ug/L	2.0	0.24	
Hexachlorocyclopentadiene	BXE1933-BLK1	ND	ug/L	2.0	0.30	
Hexachloroethane	BXE1933-BLK1	ND	ug/L	2.0	0.32	
Indeno[1,2,3-cd]pyrene	BXE1933-BLK1	ND	ug/L	2.0	0.26	
Isophorone	BXE1933-BLK1	ND	ug/L	2.0	0.31	
2-Methylnaphthalene	BXE1933-BLK1	ND	ug/L	2.0	0.28	
Naphthalene	BXE1933-BLK1	ND	ug/L	2.0	0.21	
2-Naphthylamine	BXE1933-BLK1	ND	ug/L	20	4.8	
2-Nitroaniline	BXE1933-BLK1	ND	ug/L	2.0	0.33	
3-Nitroaniline	BXE1933-BLK1	ND	ug/L	2.0	0.66	
4-Nitroaniline	BXE1933-BLK1	ND	ug/L	5.0	0.87	
Nitrobenzene	BXE1933-BLK1	ND	ug/L	2.0	0.26	
N-Nitrosodimethylamine	BXE1933-BLK1	ND	ug/L	2.0	0.61	
N-Nitrosodi-N-propylamine	BXE1933-BLK1	ND	ug/L	2.0	1.3	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 11:14
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE1933						
N-Nitrosodiphenylamine	BXE1933-BLK1	ND	ug/L	2.0	0.44	
Phenanthrene	BXE1933-BLK1	ND	ug/L	2.0	0.20	
Pyrene	BXE1933-BLK1	ND	ug/L	2.0	0.26	
1,2,4-Trichlorobenzene	BXE1933-BLK1	ND	ug/L	2.0	0.27	
4-Chloro-3-methylphenol	BXE1933-BLK1	ND	ug/L	5.0	0.40	
2-Chlorophenol	BXE1933-BLK1	ND	ug/L	2.0	0.37	
2,4-Dichlorophenol	BXE1933-BLK1	ND	ug/L	2.0	0.43	
2,4-Dimethylphenol	BXE1933-BLK1	ND	ug/L	2.0	0.20	
4,6-Dinitro-2-methylphenol	BXE1933-BLK1	ND	ug/L	10	0.34	
2,4-Dinitrophenol	BXE1933-BLK1	ND	ug/L	10	0.20	
2-Methylphenol	BXE1933-BLK1	ND	ug/L	2.0	1.0	
3- & 4-Methylphenol	BXE1933-BLK1	ND	ug/L	2.0	1.6	
Total Methylphenol	BXE1933-BLK1	ND	ug/L	4.0	2.6	
2-Nitrophenol	BXE1933-BLK1	ND	ug/L	2.0	0.28	
4-Nitrophenol	BXE1933-BLK1	ND	ug/L	2.0	0.73	
Pentachlorophenol	BXE1933-BLK1	ND	ug/L	10	0.79	
Phenol	BXE1933-BLK1	ND	ug/L	2.0	0.20	
2,4,5-Trichlorophenol	BXE1933-BLK1	ND	ug/L	5.0	0.31	
2,4,6-Trichlorophenol	BXE1933-BLK1	ND	ug/L	5.0	0.60	
Acetophenone	BXE1933-BLK1	ND	ug/L	10	3.0	
2-Acetylaminofluorene	BXE1933-BLK1	ND	ug/L	10	0.38	
Acrolein, dimethyl acetal	BXE1933-BLK1	ND	ug/L	40	7.7	
4-Aminobiphenyl	BXE1933-BLK1	ND	ug/L	20	5.2	
Aramite	BXE1933-BLK1	ND	ug/L	10	2.3	
Benefin	BXE1933-BLK1	ND	ug/L	10	0.88	
Carbazole	BXE1933-BLK1	ND	ug/L	2.0	0.20	
cis-Chlordane	BXE1933-BLK1	ND	ug/L	5.0	0.30	
trans-Chlordane	BXE1933-BLK1	ND	ug/L	5.0	0.40	
Chlorobenzilate	BXE1933-BLK1	ND	ug/L	10	0.29	
1-Chloronaphthalene	BXE1933-BLK1	ND	ug/L	10	0.28	
cis-Diallate	BXE1933-BLK1	ND	ug/L	5.0	0.21	
trans-Diallate	BXE1933-BLK1	ND	ug/L	5.0	0.22	
Diallate	BXE1933-BLK1	ND	ug/L	10	0.42	
2,6-Dichlorophenol	BXE1933-BLK1	ND	ug/L	10	1.3	

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Reported: 05/23/2014 11:14
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE1933						
Dimethoate	BXE1933-BLK1	ND	ug/L	20	0.46	
p-(Dimethylamino)azobenzene	BXE1933-BLK1	ND	ug/L	10	0.54	
7,12-Dimethylbenz[a]anthracene	BXE1933-BLK1	ND	ug/L	10	0.41	
3,3'-Dimethylbenzidine	BXE1933-BLK1	ND	ug/L	20	5.4	
a,a-Dimethylphenethylamine	BXE1933-BLK1	ND	ug/L	20	2.5	
Dimethyl sulfoxide (DMSO)	BXE1933-BLK1	ND	ug/L	10	1.0	
1,3-Dinitrobenzene	BXE1933-BLK1	ND	ug/L	10	0.23	
Dinoseb	BXE1933-BLK1	ND	ug/L	10	0.61	
Diphenylamine	BXE1933-BLK1	ND	ug/L	10	0.20	
Disulfoton	BXE1933-BLK1	ND	ug/L	10	0.44	
Ethyl methacrylate	BXE1933-BLK1	ND	ug/L	10	0.19	
Ethyl methanesulfonate	BXE1933-BLK1	ND	ug/L	10	0.26	
Ethyl Parathion	BXE1933-BLK1	ND	ug/L	10	0.31	
Famphur	BXE1933-BLK1	ND	ug/L	20	8.3	
Hexachlorophene	BXE1933-BLK1	ND	ug/L	200	35	
Hexachloropropene	BXE1933-BLK1	ND	ug/L	20	0.46	
Isodrin	BXE1933-BLK1	ND	ug/L	10	0.31	
cis-Isosafrole	BXE1933-BLK1	ND	ug/L	5.0	0.41	
trans-Isosafrole	BXE1933-BLK1	ND	ug/L	5.0	0.36	
Isosafrole	BXE1933-BLK1	ND	ug/L	10	0.76	
Kepone	BXE1933-BLK1	ND	ug/L	20	1.5	
Methapyrilene	BXE1933-BLK1	ND	ug/L	10	1.5	
Methoxychlor	BXE1933-BLK1	ND	ug/L	10	0.40	
3-Methylcholanthrene	BXE1933-BLK1	ND	ug/L	10	0.56	
Methyl methacrylate	BXE1933-BLK1	ND	ug/L	40	22	
Methyl methanesulfonate	BXE1933-BLK1	ND	ug/L	10	0.42	
1-Methylnaphthalene	BXE1933-BLK1	ND	ug/L	10	0.41	
Methyl parathion	BXE1933-BLK1	ND	ug/L	10	0.32	
N-Methyl-2-pyrrolidinone	BXE1933-BLK1	ND	ug/L	10	1.6	
1,4-Naphthoquinone	BXE1933-BLK1	ND	ug/L	20	2.1	
1-Naphthylamine	BXE1933-BLK1	ND	ug/L	20	5.3	
5-Nitro-o-toluidine	BXE1933-BLK1	ND	ug/L	10	0.44	
4-Nitroquinoline 1-oxide	BXE1933-BLK1	ND	ug/L	20	12	
N-Nitrosodibutylamine	BXE1933-BLK1	ND	ug/L	10	0.41	

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Reported: 05/23/2014 11:14
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE1933						
N-Nitrosodiethylamine	BXE1933-BLK1	ND	ug/L	10	0.43	
N-Nitrosomethylethylamine	BXE1933-BLK1	ND	ug/L	10	0.37	
N-Nitrosomorpholine	BXE1933-BLK1	ND	ug/L	10	0.35	
N-Nitrosopiperidine	BXE1933-BLK1	ND	ug/L	10	0.44	
N-Nitrosopyrrolidine	BXE1933-BLK1	ND	ug/L	10	0.44	
Pentachlorobenzene	BXE1933-BLK1	ND	ug/L	10	0.25	
Pentachloroethane	BXE1933-BLK1	ND	ug/L	20	1.0	
Pentachloronitrobenzene	BXE1933-BLK1	ND	ug/L	10	0.30	
Phenacetin	BXE1933-BLK1	ND	ug/L	10	0.20	
1,4-Phenylenediamine	BXE1933-BLK1	ND	ug/L	20	2.2	
Phorate	BXE1933-BLK1	ND	ug/L	10	0.34	
2-Picoline	BXE1933-BLK1	ND	ug/L	10	0.23	
PCB-1242	BXE1933-BLK1	ND	ug/L	50	25	
PCB-1268	BXE1933-BLK1	ND	ug/L	50	25	
PCB-1262	BXE1933-BLK1	ND	ug/L	50	25	
PCB-1260	BXE1933-BLK1	ND	ug/L	50	25	
PCB-1248	BXE1933-BLK1	ND	ug/L	50	25	
PCB-1232	BXE1933-BLK1	ND	ug/L	50	25	
PCB-1221	BXE1933-BLK1	ND	ug/L	50	25	
PCB-1016	BXE1933-BLK1	ND	ug/L	50	25	
PCB-1254	BXE1933-BLK1	ND	ug/L	50	25	
Total PCB's (Summation)	BXE1933-BLK1	ND	ug/L	50	25	
Prometryn	BXE1933-BLK1	ND	ug/L	10	1.7	
Pronamide	BXE1933-BLK1	ND	ug/L	10	0.29	
Propyleneglycol monomethyl ether acetate	BXE1933-BLK1	ND	ug/L	10	4.2	
Prowl	BXE1933-BLK1	ND	ug/L	10	0.83	
Pyridine	BXE1933-BLK1	ND	ug/L	10	0.27	
Safrole	BXE1933-BLK1	ND	ug/L	10	0.33	
Sulfotep	BXE1933-BLK1	ND	ug/L	10	0.43	
1,2,4,5-Tetrachlorobenzene	BXE1933-BLK1	ND	ug/L	10	0.39	
2,3,4,5-Tetrachlorophenol	BXE1933-BLK1	ND	ug/L	10	5.0	
2,3,4,6-Tetrachlorophenol	BXE1933-BLK1	ND	ug/L	10	4.7	
Thionazin	BXE1933-BLK1	ND	ug/L	10	0.21	
2-Toluidine	BXE1933-BLK1	ND	ug/L	10	0.49	

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Project Manager: David Conner

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

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE1933						
Toxaphene	BXE1933-BLK1	ND	ug/L	100	50	
o,o,o-Triethylphosphorothioate	BXE1933-BLK1	ND	ug/L	10	0.42	
1,3,5-Trinitrobenzene	BXE1933-BLK1	ND	ug/L	10	0.30	
Tris(hydroxymethyl)nitromethane	BXE1933-BLK1	ND	ug/L	50	5.0	
2-Fluorophenol (Surrogate)	BXE1933-BLK1	44.5	%	30 - 120 (LCL - UCL)		
Phenol-d5 (Surrogate)	BXE1933-BLK1	30.3	%	12 - 110 (LCL - UCL)		
Nitrobenzene-d5 (Surrogate)	BXE1933-BLK1	81.7	%	60 - 130 (LCL - UCL)		
2-Fluorobiphenyl (Surrogate)	BXE1933-BLK1	86.5	%	55 - 125 (LCL - UCL)		
2,4,6-Tribromophenol (Surrogate)	BXE1933-BLK1	84.0	%	40 - 150 (LCL - UCL)		
p-Terphenyl-d14 (Surrogate)	BXE1933-BLK1	102	%	40 - 150 (LCL - UCL)		

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Powell, OH 43065

Reported: 05/23/2014 11:14
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXE1933										
Acenaphthene	BXE1933-BS1	LCS	40.384	50.000	ug/L	80.8		50 - 120		
1,4-Dichlorobenzene	BXE1933-BS1	LCS	36.309	50.000	ug/L	72.6		50 - 120		
2,4-Dinitrotoluene	BXE1933-BS1	LCS	38.190	50.000	ug/L	76.4		50 - 120		
Hexachlorobenzene	BXE1933-BS1	LCS	37.306	50.000	ug/L	74.6		60 - 120		
Hexachlorobutadiene	BXE1933-BS1	LCS	34.371	50.000	ug/L	68.7		40 - 110		
Hexachloroethane	BXE1933-BS1	LCS	36.166	50.000	ug/L	72.3		40 - 120		
Nitrobenzene	BXE1933-BS1	LCS	38.684	50.000	ug/L	77.4		50 - 120		
N-Nitrosodi-N-propylamine	BXE1933-BS1	LCS	39.216	50.000	ug/L	78.4		50 - 120		
Pyrene	BXE1933-BS1	LCS	54.093	50.000	ug/L	108		40 - 140		
1,2,4-Trichlorobenzene	BXE1933-BS1	LCS	36.300	50.000	ug/L	72.6		45 - 120		
4-Chloro-3-methylphenol	BXE1933-BS1	LCS	42.864	50.000	ug/L	85.7		50 - 120		
2-Chlorophenol	BXE1933-BS1	LCS	34.409	50.000	ug/L	68.8		50 - 120		
2-Methylphenol	BXE1933-BS1	LCS	31.796	50.000	ug/L	63.6		40 - 110		
3- & 4-Methylphenol	BXE1933-BS1	LCS	64.324	100.00	ug/L	64.3		40 - 110		
4-Nitrophenol	BXE1933-BS1	LCS	17.414	50.000	ug/L	34.8		10 - 110		
Pentachlorophenol	BXE1933-BS1	LCS	36.993	50.000	ug/L	74.0		30 - 120		
Phenol	BXE1933-BS1	LCS	15.618	50.000	ug/L	31.2		20 - 110		
2,4,6-Trichlorophenol	BXE1933-BS1	LCS	41.648	50.000	ug/L	83.3		54 - 120		
Pyridine	BXE1933-BS1	LCS	20.330	50.000	ug/L	40.7		1 - 110		
2-Fluorophenol (Surrogate)	BXE1933-BS1	LCS	35.274	80.000	ug/L	44.1		30 - 120		
Phenol-d5 (Surrogate)	BXE1933-BS1	LCS	24.358	80.000	ug/L	30.4		12 - 110		
Nitrobenzene-d5 (Surrogate)	BXE1933-BS1	LCS	61.902	80.000	ug/L	77.4		60 - 130		
2-Fluorobiphenyl (Surrogate)	BXE1933-BS1	LCS	65.607	80.000	ug/L	82.0		55 - 125		
2,4,6-Tribromophenol (Surrogate)	BXE1933-BS1	LCS	72.058	80.000	ug/L	90.1		40 - 150		
p-Terphenyl-d14 (Surrogate)	BXE1933-BS1	LCS	44.194	40.000	ug/L	110		40 - 150		

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Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Control Limits Percent Recovery, Lab Quals. Includes QC Batch ID: BXE1933 and Used client sample: N.

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

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXE1933		Used client sample: N								
Pyridine	MS	1407468-88	ND	17.434	50.000	ug/L		34.9	1 - 110	
	MSD	1407468-88	ND	9.4700	50.000	ug/L	59.2	18.9	30	1 - 110
2-Fluorophenol (Surrogate)	MS	1407468-88	ND	33.116	80.000	ug/L		41.4	30 - 120	
	MSD	1407468-88	ND	34.480	80.000	ug/L	4.0	43.1	30 - 120	
Phenol-d5 (Surrogate)	MS	1407468-88	ND	23.879	80.000	ug/L		29.8	12 - 110	
	MSD	1407468-88	ND	23.800	80.000	ug/L	0.3	29.8	12 - 110	
Nitrobenzene-d5 (Surrogate)	MS	1407468-88	ND	60.736	80.000	ug/L		75.9	60 - 130	
	MSD	1407468-88	ND	62.680	80.000	ug/L	3.1	78.4	60 - 130	
2-Fluorobiphenyl (Surrogate)	MS	1407468-88	ND	63.914	80.000	ug/L		79.9	55 - 125	
	MSD	1407468-88	ND	66.210	80.000	ug/L	3.5	82.8	55 - 125	
2,4,6-Tribromophenol (Surrogate)	MS	1407468-88	ND	66.815	80.000	ug/L		83.5	40 - 150	
	MSD	1407468-88	ND	69.810	80.000	ug/L	4.4	87.3	40 - 150	
p-Terphenyl-d14 (Surrogate)	MS	1407468-88	ND	39.560	40.000	ug/L		98.9	40 - 150	
	MSD	1407468-88	ND	44.350	40.000	ug/L	11.4	111	40 - 150	

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Project Number: 2nd Qtr.
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE1933						
1-Acetyl-2-thiourea	BXE1933-BLK1	0	ug/L			
2-Aminoanthraquinone	BXE1933-BLK1	0	ug/L			
3-Amino-9-ethylcarbazole	BXE1933-BLK1	0	ug/L			
Anilazine	BXE1933-BLK1	0	ug/L			
o-Anisidine	BXE1933-BLK1	0	ug/L			
Azinphos methyl	BXE1933-BLK1	0	ug/L			
Barban	BXE1933-BLK1	0	ug/L			
p-Benzoquinone	BXE1933-BLK1	0	ug/L			
Bromoxynil	BXE1933-BLK1	0	ug/L			
Captafol	BXE1933-BLK1	0	ug/L			
Captan	BXE1933-BLK1	0	ug/L			
Carbaryl	BXE1933-BLK1	0	ug/L			
Carbofuran	BXE1933-BLK1	0	ug/L			
Carbophenothion	BXE1933-BLK1	0	ug/L			
Chlorfenvinphos	BXE1933-BLK1	0	ug/L			
5-Chloro-2-methylaniline	BXE1933-BLK1	0	ug/L			
3-(Chloromethyl) pyridine hydrochloride	BXE1933-BLK1	0	ug/L			
4-Chloro-1,2-phenylenediamine	BXE1933-BLK1	0	ug/L			
4-Chloro-1,3-phenylenediamine	BXE1933-BLK1	0	ug/L			
Coumaphos	BXE1933-BLK1	0	ug/L			
p-Cresidine	BXE1933-BLK1	0	ug/L			
Crotoxphos	BXE1933-BLK1	0	ug/L			
2-Cyclohexyl-4,6-dinitrophenol	BXE1933-BLK1	0	ug/L			
Demeton-O	BXE1933-BLK1	0	ug/L			
Demeton-S	BXE1933-BLK1	0	ug/L			
2,4-Diaminotoluene	BXE1933-BLK1	0	ug/L			
Dibenz[a,j]acridine	BXE1933-BLK1	0	ug/L			
Dibenzo[a,e]pyrene	BXE1933-BLK1	0	ug/L			
1,2-Dibromo-3-chloropropane	BXE1933-BLK1	0	ug/L			
Dichlone	BXE1933-BLK1	0	ug/L			
Dichlorvos	BXE1933-BLK1	0	ug/L			
Dicrotophos	BXE1933-BLK1	0	ug/L			
Diethylstilbestrol	BXE1933-BLK1	0	ug/L			
Diethyl sulfate	BXE1933-BLK1	0	ug/L			

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 11:14
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE1933						
Dihydrosafrole	BXE1933-BLK1	0	ug/L			
3,3'-Dimethoxybenzidine	BXE1933-BLK1	0	ug/L			
1,2-Dinitrobenzene	BXE1933-BLK1	0	ug/L			
1,4-Dinitrobenzene	BXE1933-BLK1	0	ug/L			
Dinocap	BXE1933-BLK1	0	ug/L			
Dioxathion	BXE1933-BLK1	0	ug/L			
5,5-Diphenylhydantoin	BXE1933-BLK1	0	ug/L			
Endrin ketone	BXE1933-BLK1	0	ug/L			
EPN	BXE1933-BLK1	0	ug/L			
Ethion	BXE1933-BLK1	0	ug/L			
Ethyl carbamate	BXE1933-BLK1	0	ug/L			
Fensulfothion	BXE1933-BLK1	0	ug/L			
Fenthion	BXE1933-BLK1	0	ug/L			
Fluchloralin	BXE1933-BLK1	0	ug/L			
Hexamethylphosphoramide	BXE1933-BLK1	0	ug/L			
Hydroquinone	BXE1933-BLK1	0	ug/L			
Leptophos	BXE1933-BLK1	0	ug/L			
Malathion	BXE1933-BLK1	0	ug/L			
Maleic Anhydride	BXE1933-BLK1	0	ug/L			
Mestranol	BXE1933-BLK1	0	ug/L			
4,4'-Methylenebis(2-chloroaniline)	BXE1933-BLK1	0	ug/L			
4,4'-Methylenebis[N,N-dimethylaniline]	BXE1933-BLK1	0	ug/L			
Mevinphos	BXE1933-BLK1	0	ug/L			
Mexacarbate	BXE1933-BLK1	0	ug/L			
Mirex	BXE1933-BLK1	0	ug/L			
Monocrotophos	BXE1933-BLK1	0	ug/L			
Naled	BXE1933-BLK1	0	ug/L			
Nicotine	BXE1933-BLK1	0	ug/L			
5-Nitroacenaphthene	BXE1933-BLK1	0	ug/L			
5-Nitro-o-anisidine	BXE1933-BLK1	0	ug/L			
4-Nitrobiphenyl	BXE1933-BLK1	0	ug/L			
Nitrophen	BXE1933-BLK1	0	ug/L			
Octamethylpyrophosphoramide	BXE1933-BLK1	0	ug/L			
4,4'-Oxydianiline	BXE1933-BLK1	0	ug/L			

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 11:14
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE1933						
Phenobarbital	BXE1933-BLK1	0	ug/L			
Phosalone	BXE1933-BLK1	0	ug/L			
Phosmet	BXE1933-BLK1	0	ug/L			
Phosphamidon	BXE1933-BLK1	0	ug/L			
Phthalic anhydride	BXE1933-BLK1	0	ug/L			
Piperonyl sulfoxide	BXE1933-BLK1	0	ug/L			
Propylthiouracil	BXE1933-BLK1	0	ug/L			
Resorcinol	BXE1933-BLK1	0	ug/L			
Strychnine	BXE1933-BLK1	0	ug/L			
Sulfallate	BXE1933-BLK1	0	ug/L			
Terbufos	BXE1933-BLK1	0	ug/L			
Tetrachlorvinphos	BXE1933-BLK1	0	ug/L			
TEPP	BXE1933-BLK1	0	ug/L			
Thiophenol (Benzenethiol)	BXE1933-BLK1	0	ug/L			
Toluene 2,4-diisocyanate	BXE1933-BLK1	0	ug/L			
Trifluralin	BXE1933-BLK1	0	ug/L			
2,4,5-Trimethylaniline	BXE1933-BLK1	0	ug/L			
Trimethyl phosphate	BXE1933-BLK1	0	ug/L			
Tris(2,3-dibromopropyl) phosphate	BXE1933-BLK1	0	ug/L			
Tri-p-tolyl phosphate	BXE1933-BLK1	0	ug/L			

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 11:14
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE1423						
Hexavalent Chromium	BXE1423-BLK1	ND	mg/L	0.0020	0.00070	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 11:14
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXE1423										
Hexavalent Chromium	BXE1423-BS1	LCS	0.049696	0.050000	mg/L	99.4		85	115	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 11:14
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXE1423		Used client sample: Y - Description: SB-4-5/14/14, 05/14/2014 08:00								
Hexavalent Chromium	DUP	1410817-01	ND	ND		mg/L			10	
	MS	1410817-01	ND	0.051961	0.052632	mg/L		98.7		85 - 115
	MSD	1410817-01	ND	0.051974	0.052632	mg/L	0.0	98.8	10	85 - 115

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/23/2014 11:14
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- Q03 Matrix spike recovery(s) is(are) not within the control limits.
- S09 The surrogate recovery on the sample for this compound was not within the control limits.



Date of Report: 06/06/2014

David Conner

Tidewater Inc.

3761 Attucks Drive
Powell, OH 43065

Client Project: 2nd Qtr.
BCL Project: JPL- GW Monitoring Wells
BCL Work Order: 1410961
Invoice ID: B175077

Enclosed are the results of analyses for samples received by the laboratory on 5/15/2014. 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; AK UST101

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Chain of Custody Form

Page 1 of 2

Required Fields

Report To: Client: Tidewater, Inc.
 Client: Tidewater, Inc. (P.O. #1213-000-02)
 Attn: As directed by Ben Headington
 Street Address: 3761 Attucks Drive
 City: Powell State: OH Zip: 43066
 Phone: (614) 792-2897 Fax: (614) 792-2897
 Email Address: david.canner@tidel20.net
 Submission #: 14-10961

Project Description: JPL-GW Monitoring
 Project Code: 2nd Qtr.
 Sampler(s): Blaine Tech

Analysis Requested

Sample #	Sample Description	Date	Time	Matrix*
EB-10-5/15/14-1		5-15-14	0645	ACR
MW-17-5-1			0825	
MW-17-4-3			0845	
MW-17-3-4			0910	
MW-17-2-3			1025	
MW-17-1-6			1040	
MW-18-4-7			1150	
MW-21-5-8			1400	
MW-21-4-9			1420	
MW-21-3-10			1430	
MW-21-2-11			1445	

Notes: MS/MSD
Level IV

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

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

Lab TAT Approval: _____ *Additional Charges May Apply

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

Cost Center: 1. Relinquished By: _____ Date: _____ Time: _____
 2. Relinquished By: Nicole Date: 5-15-14 Time: 1630
 3. Relinquished By: Nicole Date: 5-15-14 Time: 1640

Global ID: 1. Received By: _____ Date: _____ Time: _____
 2. Received By: _____ Date: _____ Time: _____
 3. Received By: _____ Date: _____ Time: _____

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

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

Submission #: 14-10961

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 [x]

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

Custody Seals Ice Chest [] Containers [] None [x] Comments:

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: 0.97 Container: PE Thermometer ID: 107 Temperature: (A) 2.4 °C (C) 2.6 °C

Date/Time 5-15-14 2030 Analyst Init [Signature]

Table with columns for Sample Containers and Sample Numbers (1-10). Rows include various test types like QT GENERAL MINERAL/GENERAL, FT PE UNPRESERVED, etc. Includes handwritten sample numbers and container codes.

CHK BY DISTRIBUTION [Signature] SUB OUT []

SHORT HOLDING TIME [Signature] Cr+6 NO2 NO3 DP SS DO Cl2 BOD MBAS CO

Comments: [Handwritten notes]



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

Submission #: 14-10961

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

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: PE Thermometer ID: 107 Date/Time: 5-15-14 2030
 Temperature: (A) 2.9 °C (C) 2.6 °C Analyst Init 77

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/ GENERAL										
PT PE UNPRESERVED <u>8oz</u>	<u>A</u>	<u>A</u>								
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	()	()	()	()	()	()	()	()	()	()
QT EPA 413.1, 413.2, 418.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 508/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: AA Date/Time: 5/15/14 @ 2230



Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1410961-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: EB-10-5/15/14 Sampled By: Blaine Tech of BAT	Receive Date: 05/15/2014 20:30 Sampling Date: 05/15/2014 06:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-10-5/15/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1410961-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-17-5 Sampled By: Blaine Tech of BAT	Receive Date: 05/15/2014 20:30 Sampling Date: 05/15/2014 08:25 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-17-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1410961-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-17-4 Sampled By: Blaine Tech of BAT	Receive Date: 05/15/2014 20:30 Sampling Date: 05/15/2014 08:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-17-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1410961-04	COC Number: ---	Receive Date: 05/15/2014 20:30
	Project Number: JPL-GW	Sampling Date: 05/15/2014 09:10
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-17-3	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Water
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-17-3
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1410961-05	COC Number: ---	Receive Date: 05/15/2014 20:30
	Project Number: JPL-GW	Sampling Date: 05/15/2014 10:25
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-17-2	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Water
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-17-2
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

1410961-06	COC Number: ---	Receive Date: 05/15/2014 20:30
	Project Number: JPL-GW	Sampling Date: 05/15/2014 10:40
	Sampling Location: ---	Sample Depth: ---
	Sampling Point: MW-17-1	Lab Matrix: Water
	Sampled By: Blaine Tech of BAT	Sample Type: Water
		Delivery Work Order:
		Global ID: 0000000000
		Location ID (FieldPoint): MW-17-1
		Matrix: W
		Sample QC Type (SACode): CS
		Cooler ID:

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1410961-07	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-18-4 Sampled By: Blaine Tech of BAT	Receive Date: 05/15/2014 20:30 Sampling Date: 05/15/2014 11:50 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-18-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1410961-08	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-21-5 Sampled By: Blaine Tech of BAT	Receive Date: 05/15/2014 20:30 Sampling Date: 05/15/2014 14:00 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-21-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1410961-09	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-21-4 Sampled By: Blaine Tech of BAT	Receive Date: 05/15/2014 20:30 Sampling Date: 05/15/2014 14:20 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-21-4 Matrix: W Sample QC Type (SACode): CS Cooler ID:
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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1410961-10	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-21-3 Sampled By: Blaine Tech of BAT	Receive Date: 05/15/2014 20:30 Sampling Date: 05/15/2014 14:35 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-21-3 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1410961-11	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-21-2 Sampled By: Blaine Tech of BAT	Receive Date: 05/15/2014 20:30 Sampling Date: 05/15/2014 14:45 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-21-2 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1410961-12	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-21-1 Sampled By: Blaine Tech of BAT	Receive Date: 05/15/2014 20:30 Sampling Date: 05/15/2014 14:55 Sample Depth: --- Lab Matrix: Water Sample Type: Water Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-21-1 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1410961-01	Client Sample Name: JPL-GW, EB-10-5/15/14, 5/15/2014 6:45:00AM, 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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/15/14	05/15/14 22:44	OLH	KONE-1	1	BXE1437

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1410961-02	Client Sample Name: JPL-GW, MW-17-5, 5/15/2014 8:25:00AM, 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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/15/14	05/15/14 22:44	OLH	KONE-1	1	BXE1437

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Powell, OH 43065

Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1410961-03	Client Sample Name: JPL-GW, MW-17-4, 5/15/2014 8:45:00AM, Blaine Tech
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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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/15/14	05/15/14 22:44	OLH	KONE-1	1	BXE1437

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Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1410961-04	Client Sample Name: JPL-GW, MW-17-3, 5/15/2014 9:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Acenaphthylene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Aldrin	ND	ug/L	2.0	0.35	EPA-8270C	ND		1
Aniline	ND	ug/L	5.0	0.69	EPA-8270C	ND		1
Anthracene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Benzidine	ND	ug/L	20	7.1	EPA-8270C	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	0.38	EPA-8270C	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	0.41	EPA-8270C	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
Benzoic acid	ND	ug/L	10	5.8	EPA-8270C	ND		1
Benzyl alcohol	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	0.47	EPA-8270C	ND		1
alpha-BHC	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
beta-BHC	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
delta-BHC	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.0	0.68	EPA-8270C	ND		1
bis(2-Chloroisopropyl)ether	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
bis(2-Ethylhexyl)phthalate	ND	ug/L	4.0	3.0	EPA-8270C	ND		1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
4-Chloroaniline	ND	ug/L	2.0	0.69	EPA-8270C	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
Chrysene	ND	ug/L	2.0	0.63	EPA-8270C	ND		1
4,4'-DDD	ND	ug/L	2.0	0.48	EPA-8270C	ND		1
4,4'-DDE	ND	ug/L	3.0	0.41	EPA-8270C	ND		1
4,4'-DDT	ND	ug/L	2.0	0.43	EPA-8270C	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	0.26	EPA-8270C	ND		1
Dibenzofuran	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	0.37	EPA-8270C	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1410961-04	Client Sample Name: JPL-GW, MW-17-3, 5/15/2014 9:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	2.0	0.35	EPA-8270C	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	8.2	EPA-8270C	ND		1
Dieldrin	ND	ug/L	3.0	0.41	EPA-8270C	ND		1
Diethyl phthalate	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.39	EPA-8270C	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	0.39	EPA-8270C	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.41	EPA-8270C	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.46	EPA-8270C	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
Endosulfan I	ND	ug/L	10	1.7	EPA-8270C	ND		1
Endosulfan II	ND	ug/L	10	1.2	EPA-8270C	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.58	EPA-8270C	ND		1
Endrin	ND	ug/L	2.0	1.1	EPA-8270C	ND		1
Endrin aldehyde	ND	ug/L	10	0.52	EPA-8270C	ND		1
Fluoranthene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Fluorene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Heptachlor	ND	ug/L	2.0	0.32	EPA-8270C	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
Hexachlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Hexachlorobutadiene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Hexachlorocyclopentadiene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Hexachloroethane	ND	ug/L	2.0	0.32	EPA-8270C	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
Isophorone	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Naphthalene	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
2-Naphthylamine	ND	ug/L	20	4.8	EPA-8270C	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.66	EPA-8270C	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.87	EPA-8270C	ND		1
Nitrobenzene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1410961-04	Client Sample Name: JPL-GW, MW-17-3, 5/15/2014 9:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.0	0.61	EPA-8270C	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	1.3	EPA-8270C	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	0.44	EPA-8270C	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Pyrene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.40	EPA-8270C	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.37	EPA-8270C	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.43	EPA-8270C	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.34	EPA-8270C	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-8270C	ND		1
2-Methylphenol	ND	ug/L	2.0	1.0	EPA-8270C	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	1.6	EPA-8270C	ND		1
Total Methylphenol	ND	ug/L	4.0	2.6	EPA-8270C	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.73	EPA-8270C	ND		1
Pentachlorophenol	ND	ug/L	10	0.79	EPA-8270C	ND		1
Phenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.31	EPA-8270C	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.60	EPA-8270C	ND		1
Acetophenone	ND	ug/L	10	3.0	EPA-8270C	ND		1
2-Acetylaminofluorene	ND	ug/L	10	0.38	EPA-8270C	ND		1
Acrolein, dimethyl acetal	ND	ug/L	40	7.7	EPA-8270C	ND		1
4-Aminobiphenyl	ND	ug/L	20	5.2	EPA-8270C	ND		1
Aramite	ND	ug/L	10	2.3	EPA-8270C	ND		1
Benefin	ND	ug/L	10	0.88	EPA-8270C	ND		1
Carbazole	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
cis-Chlordane	ND	ug/L	5.0	0.30	EPA-8270C	ND		1
trans-Chlordane	ND	ug/L	5.0	0.40	EPA-8270C	ND		1
Chlorobenzilate	ND	ug/L	10	0.29	EPA-8270C	ND		1
1-Chloronaphthalene	ND	ug/L	10	0.28	EPA-8270C	ND		1
cis-Diallate	ND	ug/L	5.0	0.21	EPA-8270C	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1410961-04	Client Sample Name: JPL-GW, MW-17-3, 5/15/2014 9:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
trans-Diallate	ND	ug/L	5.0	0.22	EPA-8270C	ND		1
Diallate	ND	ug/L	10	0.42	EPA-8270C	ND		1
2,6-Dichlorophenol	ND	ug/L	10	1.3	EPA-8270C	ND		1
Dimethoate	ND	ug/L	20	0.46	EPA-8270C	ND		1
p-(Dimethylamino)azobenzene	ND	ug/L	10	0.54	EPA-8270C	ND		1
7,12-Dimethylbenz[a]anthracene	ND	ug/L	10	0.41	EPA-8270C	ND		1
3,3'-Dimethylbenzidine	ND	ug/L	20	5.4	EPA-8270C	ND		1
a,a-Dimethylphenethylamine	ND	ug/L	20	2.5	EPA-8270C	ND		1
Dimethyl sulfoxide (DMSO)	ND	ug/L	10	1.0	EPA-8270C	ND		1
1,3-Dinitrobenzene	ND	ug/L	10	0.23	EPA-8270C	ND		1
Dinoseb	ND	ug/L	10	0.61	EPA-8270C	ND		1
Diphenylamine	ND	ug/L	10	0.20	EPA-8270C	ND		1
Disulfoton	ND	ug/L	10	0.44	EPA-8270C	ND		1
Ethyl methacrylate	ND	ug/L	10	0.19	EPA-8270C	ND		1
Ethyl methanesulfonate	ND	ug/L	10	0.26	EPA-8270C	ND		1
Ethyl Parathion	ND	ug/L	10	0.31	EPA-8270C	ND		1
Famphur	ND	ug/L	20	8.3	EPA-8270C	ND		1
Hexachlorophene	ND	ug/L	200	35	EPA-8270C	ND		1
Hexachloropropene	ND	ug/L	20	0.46	EPA-8270C	ND		1
Isodrin	ND	ug/L	10	0.31	EPA-8270C	ND		1
cis-Isosafrole	ND	ug/L	5.0	0.41	EPA-8270C	ND		1
trans-Isosafrole	ND	ug/L	5.0	0.36	EPA-8270C	ND		1
Isosafrole	ND	ug/L	10	0.76	EPA-8270C	ND		1
Kepone	ND	ug/L	20	1.5	EPA-8270C	ND		1
Methapyrilene	ND	ug/L	10	1.5	EPA-8270C	ND		1
Methoxychlor	ND	ug/L	10	0.40	EPA-8270C	ND		1
3-Methylcholanthrene	ND	ug/L	10	0.56	EPA-8270C	ND		1
Methyl methacrylate	ND	ug/L	40	22	EPA-8270C	ND		1
Methyl methanesulfonate	ND	ug/L	10	0.42	EPA-8270C	ND		1
1-Methylnaphthalene	ND	ug/L	10	0.41	EPA-8270C	ND		1
Methyl parathion	ND	ug/L	10	0.32	EPA-8270C	ND		1
N-Methyl-2-pyrrolidinone	ND	ug/L	10	1.6	EPA-8270C	ND		1
1,4-Naphthoquinone	ND	ug/L	20	2.1	EPA-8270C	ND		1

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Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1410961-04	Client Sample Name: JPL-GW, MW-17-3, 5/15/2014 9:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1-Naphthylamine	ND	ug/L	20	5.3	EPA-8270C	ND		1
5-Nitro-o-toluidine	ND	ug/L	10	0.44	EPA-8270C	ND		1
4-Nitroquinoline 1-oxide	ND	ug/L	20	12	EPA-8270C	ND		1
N-Nitrosodibutylamine	ND	ug/L	10	0.41	EPA-8270C	ND		1
N-Nitrosodiethylamine	ND	ug/L	10	0.43	EPA-8270C	ND		1
N-Nitrosomethylethylamine	ND	ug/L	10	0.37	EPA-8270C	ND		1
N-Nitrosomorpholine	ND	ug/L	10	0.35	EPA-8270C	ND		1
N-Nitrosopiperidine	ND	ug/L	10	0.44	EPA-8270C	ND		1
N-Nitrosopyrrolidine	ND	ug/L	10	0.44	EPA-8270C	ND		1
Pentachlorobenzene	ND	ug/L	10	0.25	EPA-8270C	ND		1
Pentachloroethane	ND	ug/L	20	1.0	EPA-8270C	ND		1
Pentachloronitrobenzene	ND	ug/L	10	0.30	EPA-8270C	ND		1
Phenacetin	ND	ug/L	10	0.20	EPA-8270C	ND		1
1,4-Phenylenediamine	ND	ug/L	20	2.2	EPA-8270C	ND		1
Phorate	ND	ug/L	10	0.34	EPA-8270C	ND		1
2-Picoline	ND	ug/L	10	0.23	EPA-8270C	ND		1
PCB-1016	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1221	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1232	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1242	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1248	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1254	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1260	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1262	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1268	ND	ug/L	50	25	EPA-8270C	ND		1
Total PCB's (Summation)	ND	ug/L	50	25	EPA-8270C	ND		1
Prometryn	ND	ug/L	10	1.7	EPA-8270C	ND		1
Pronamide	ND	ug/L	10	0.29	EPA-8270C	ND		1
Propyleneglycol monomethyl ether acetate	ND	ug/L	10	4.2	EPA-8270C	ND		1
Prowl	ND	ug/L	10	0.83	EPA-8270C	ND		1
Pyridine	ND	ug/L	10	0.27	EPA-8270C	ND		1
Safrole	ND	ug/L	10	0.33	EPA-8270C	ND		1
Sulfotep	ND	ug/L	10	0.43	EPA-8270C	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1410961-04	Client Sample Name: JPL-GW, MW-17-3, 5/15/2014 9:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10	0.39	EPA-8270C	ND		1
2,3,4,5-Tetrachlorophenol	ND	ug/L	10	5.0	EPA-8270C	ND		1
2,3,4,6-Tetrachlorophenol	ND	ug/L	10	4.7	EPA-8270C	ND		1
Thionazin	ND	ug/L	10	0.21	EPA-8270C	ND		1
2-Toluidine	ND	ug/L	10	0.49	EPA-8270C	ND		1
Toxaphene	ND	ug/L	100	50	EPA-8270C	ND		1
o,o,o-Triethylphosphorothioate	ND	ug/L	10	0.42	EPA-8270C	ND		1
1,3,5-Trinitrobenzene	ND	ug/L	10	0.30	EPA-8270C	ND		1
Tris(hydroxymethyl)nitromethane	ND	ug/L	50	5.0	EPA-8270C	ND		1
2-Fluorophenol (Surrogate)	41.6	%	30 - 120 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	29.6	%	12 - 110 (LCL - UCL)		EPA-8270C			1
Nitrobenzene-d5 (Surrogate)	79.8	%	60 - 130 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	87.0	%	55 - 125 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	85.6	%	40 - 150 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	94.2	%	40 - 150 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	05/20/14	05/22/14 17:42	VH1	MS-B2	1	BXE1933

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

BCL Sample ID:	1410961-04	Client Sample Name:	JPL-GW, MW-17-3, 5/15/2014 9:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1-Acetyl-2-thiourea	0	ug/L			EPA-8270C	0		1
2-Aminoanthraquinone	0	ug/L			EPA-8270C	0		1
3-Amino-9-ethylcarbazole	0	ug/L			EPA-8270C	0		1
Anilazine	0	ug/L			EPA-8270C	0		1
o-Anisidine	0	ug/L			EPA-8270C	0		1
Azinphos methyl	0	ug/L			EPA-8270C	0		1
Barban	0	ug/L			EPA-8270C	0		1
p-Benzoquinone	0	ug/L			EPA-8270C	0		1
Bromoxynil	0	ug/L			EPA-8270C	0		1
Captafol	0	ug/L			EPA-8270C	0		1
Captan	0	ug/L			EPA-8270C	0		1
Carbaryl	0	ug/L			EPA-8270C	0		1
Carbofuran	0	ug/L			EPA-8270C	0		1
Carbophenothion	0	ug/L			EPA-8270C	0		1
Chlorfenvinphos	0	ug/L			EPA-8270C	0		1
5-Chloro-2-methylaniline	0	ug/L			EPA-8270C	0		1
3-(Chloromethyl) pyridine hydrochloride	0	ug/L			EPA-8270C	0		1
4-Chloro-1,2-phenylenediamine	0	ug/L			EPA-8270C	0		1
4-Chloro-1,3-phenylenediamine	0	ug/L			EPA-8270C	0		1
Coumaphos	0	ug/L			EPA-8270C	0		1
p-Cresidine	0	ug/L			EPA-8270C	0		1
Crotoxyphos	0	ug/L			EPA-8270C	0		1
2-Cyclohexyl-4,6-dinitrophenol	0	ug/L			EPA-8270C	0		1
Demeton-O	0	ug/L			EPA-8270C	0		1
Demeton-S	0	ug/L			EPA-8270C	0		1
2,4-Diaminotoluene	0	ug/L			EPA-8270C	0		1
Dibenz[a,j]acridine	0	ug/L			EPA-8270C	0		1
Dibenzo[a,e]pyrene	0	ug/L			EPA-8270C	0		1
1,2-Dibromo-3-chloropropane	0	ug/L			EPA-8270C	0		1
Dichlone	0	ug/L			EPA-8270C	0		1
Dichlorvos	0	ug/L			EPA-8270C	0		1
Dicrotophos	0	ug/L			EPA-8270C	0		1
Diethylstilbestrol	0	ug/L			EPA-8270C	0		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

Table with 2 columns: BCL Sample ID (1410961-04) and Client Sample Name (JPL-GW, MW-17-3, 5/15/2014 9:10:00AM, Blaine Tech)

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

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

BCL Sample ID: 1410961-04	Client Sample Name: JPL-GW, MW-17-3, 5/15/2014 9:10:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Octamethylpyrophosphoramidate	0	ug/L			EPA-8270C	0		1
4,4'-Oxydianiline	0	ug/L			EPA-8270C	0		1
Phenobarbital	0	ug/L			EPA-8270C	0		1
Phosalone	0	ug/L			EPA-8270C	0		1
Phosmet	0	ug/L			EPA-8270C	0		1
Phosphamidon	0	ug/L			EPA-8270C	0		1
Phthalic anhydride	0	ug/L			EPA-8270C	0		1
Piperonyl sulfoxide	0	ug/L			EPA-8270C	0		1
Propylthiouracil	0	ug/L			EPA-8270C	0		1
Resorcinol	0	ug/L			EPA-8270C	0		1
Strychnine	0	ug/L			EPA-8270C	0		1
Sulfallate	0	ug/L			EPA-8270C	0		1
Terbufos	0	ug/L			EPA-8270C	0		1
Tetrachlorvinphos	0	ug/L			EPA-8270C	0		1
TEPP	0	ug/L			EPA-8270C	0		1
Thiophenol (Benzenethiol)	0	ug/L			EPA-8270C	0		1
Toluene 2,4-diisocyanate	0	ug/L			EPA-8270C	0		1
Trifluralin	0	ug/L			EPA-8270C	0		1
2,4,5-Trimethylaniline	0	ug/L			EPA-8270C	0		1
Trimethyl phosphate	0	ug/L			EPA-8270C	0		1
Tris(2,3-dibromopropyl) phosphate	0	ug/L			EPA-8270C	0		1
Tri-p-tolyl phosphate	0	ug/L			EPA-8270C	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	05/20/14	05/22/14 17:42	VH1	MS-B2	1	BXE1933

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Tidewater Inc.
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Powell, OH 43065

Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1410961-04	Client Sample Name: JPL-GW, MW-17-3, 5/15/2014 9:10:00AM, 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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/15/14	05/15/14 22:44	OLH	KONE-1	1	BXE1437

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Tidewater Inc.
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Powell, OH 43065

Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1410961-05	Client Sample Name: JPL-GW, MW-17-2, 5/15/2014 10:25:00AM, 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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/15/14	05/15/14 22:47	TDC	KONE-1	1	BXE1437

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Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1410961-06	Client Sample Name: JPL-GW, MW-17-1, 5/15/2014 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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/15/14	05/15/14 22:44	OLH	KONE-1	1	BXE1437

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Powell, OH 43065

Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1410961-07	Client Sample Name: JPL-GW, MW-18-4, 5/15/2014 11:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Acenaphthene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Acenaphthylene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Aldrin	ND	ug/L	2.0	0.35	EPA-8270C	ND		1
Aniline	ND	ug/L	5.0	0.69	EPA-8270C	ND		1
Anthracene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Benzidine	ND	ug/L	20	7.1	EPA-8270C	ND		1
Benzo[a]anthracene	ND	ug/L	2.0	0.38	EPA-8270C	ND		1
Benzo[b]fluoranthene	ND	ug/L	2.0	0.41	EPA-8270C	ND		1
Benzo[k]fluoranthene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
Benzo[a]pyrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Benzo[g,h,i]perylene	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
Benzoic acid	ND	ug/L	10	5.8	EPA-8270C	ND		1
Benzyl alcohol	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
Benzyl butyl phthalate	ND	ug/L	2.0	0.47	EPA-8270C	ND		1
alpha-BHC	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
beta-BHC	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
delta-BHC	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
gamma-BHC (Lindane)	ND	ug/L	2.0	0.22	EPA-8270C	ND		1
bis(2-Chloroethoxy)methane	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
bis(2-Chloroethyl) ether	ND	ug/L	2.0	0.68	EPA-8270C	ND		1
bis(2-Chloroisopropyl) ether	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
bis(2-Ethylhexyl)phthalate	ND	ug/L	4.0	3.0	EPA-8270C	ND		1
4-Bromophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
4-Chloroaniline	ND	ug/L	2.0	0.69	EPA-8270C	ND		1
2-Chloronaphthalene	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
4-Chlorophenyl phenyl ether	ND	ug/L	2.0	0.23	EPA-8270C	ND		1
Chrysene	ND	ug/L	2.0	0.63	EPA-8270C	ND		1
4,4'-DDD	ND	ug/L	2.0	0.48	EPA-8270C	ND		1
4,4'-DDE	ND	ug/L	3.0	0.41	EPA-8270C	ND		1
4,4'-DDT	ND	ug/L	2.0	0.43	EPA-8270C	ND		1
Dibenzo[a,h]anthracene	ND	ug/L	3.0	0.26	EPA-8270C	ND		1
Dibenzofuran	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
1,2-Dichlorobenzene	ND	ug/L	2.0	0.37	EPA-8270C	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1410961-07	Client Sample Name: JPL-GW, MW-18-4, 5/15/2014 11:50:00AM, Blaine Tech
----------------------------------	---

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,3-Dichlorobenzene	ND	ug/L	2.0	0.35	EPA-8270C	ND		1
1,4-Dichlorobenzene	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
3,3-Dichlorobenzidine	ND	ug/L	10	8.2	EPA-8270C	ND		1
Dieldrin	ND	ug/L	3.0	0.41	EPA-8270C	ND		1
Diethyl phthalate	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
Dimethyl phthalate	ND	ug/L	2.0	0.39	EPA-8270C	ND		1
Di-n-butyl phthalate	ND	ug/L	2.0	0.39	EPA-8270C	ND		1
2,4-Dinitrotoluene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
2,6-Dinitrotoluene	ND	ug/L	2.0	0.41	EPA-8270C	ND		1
Di-n-octyl phthalate	ND	ug/L	2.0	0.46	EPA-8270C	ND		1
1,2-Diphenylhydrazine	ND	ug/L	2.0	0.34	EPA-8270C	ND		1
Endosulfan I	ND	ug/L	10	1.7	EPA-8270C	ND		1
Endosulfan II	ND	ug/L	10	1.2	EPA-8270C	ND		1
Endosulfan sulfate	ND	ug/L	3.0	0.58	EPA-8270C	ND		1
Endrin	ND	ug/L	2.0	1.1	EPA-8270C	ND		1
Endrin aldehyde	ND	ug/L	10	0.52	EPA-8270C	ND		1
Fluoranthene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Fluorene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Heptachlor	ND	ug/L	2.0	0.32	EPA-8270C	ND		1
Heptachlor epoxide	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
Hexachlorobenzene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Hexachlorobutadiene	ND	ug/L	2.0	0.24	EPA-8270C	ND		1
Hexachlorocyclopentadiene	ND	ug/L	2.0	0.30	EPA-8270C	ND		1
Hexachloroethane	ND	ug/L	2.0	0.32	EPA-8270C	ND		1
Indeno[1,2,3-cd]pyrene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
Isophorone	ND	ug/L	2.0	0.31	EPA-8270C	ND		1
2-Methylnaphthalene	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
Naphthalene	ND	ug/L	2.0	0.21	EPA-8270C	ND		1
2-Naphthylamine	ND	ug/L	20	4.8	EPA-8270C	ND		1
2-Nitroaniline	ND	ug/L	2.0	0.33	EPA-8270C	ND		1
3-Nitroaniline	ND	ug/L	2.0	0.66	EPA-8270C	ND		1
4-Nitroaniline	ND	ug/L	5.0	0.87	EPA-8270C	ND		1
Nitrobenzene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1410961-07	Client Sample Name: JPL-GW, MW-18-4, 5/15/2014 11:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
N-Nitrosodimethylamine	ND	ug/L	2.0	0.61	EPA-8270C	ND		1
N-Nitrosodi-N-propylamine	ND	ug/L	2.0	1.3	EPA-8270C	ND		1
N-Nitrosodiphenylamine	ND	ug/L	2.0	0.44	EPA-8270C	ND		1
Phenanthrene	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
Pyrene	ND	ug/L	2.0	0.26	EPA-8270C	ND		1
1,2,4-Trichlorobenzene	ND	ug/L	2.0	0.27	EPA-8270C	ND		1
4-Chloro-3-methylphenol	ND	ug/L	5.0	0.40	EPA-8270C	ND		1
2-Chlorophenol	ND	ug/L	2.0	0.37	EPA-8270C	ND		1
2,4-Dichlorophenol	ND	ug/L	2.0	0.43	EPA-8270C	ND		1
2,4-Dimethylphenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
4,6-Dinitro-2-methylphenol	ND	ug/L	10	0.34	EPA-8270C	ND		1
2,4-Dinitrophenol	ND	ug/L	10	0.20	EPA-8270C	ND		1
2-Methylphenol	ND	ug/L	2.0	1.0	EPA-8270C	ND		1
3- & 4-Methylphenol	ND	ug/L	2.0	1.6	EPA-8270C	ND		1
Total Methylphenol	ND	ug/L	4.0	2.6	EPA-8270C	ND		1
2-Nitrophenol	ND	ug/L	2.0	0.28	EPA-8270C	ND		1
4-Nitrophenol	ND	ug/L	2.0	0.73	EPA-8270C	ND		1
Pentachlorophenol	ND	ug/L	10	0.79	EPA-8270C	ND		1
Phenol	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
2,4,5-Trichlorophenol	ND	ug/L	5.0	0.31	EPA-8270C	ND		1
2,4,6-Trichlorophenol	ND	ug/L	5.0	0.60	EPA-8270C	ND		1
Acetophenone	ND	ug/L	10	3.0	EPA-8270C	ND		1
2-Acetylaminofluorene	ND	ug/L	10	0.38	EPA-8270C	ND		1
Acrolein, dimethyl acetal	ND	ug/L	40	7.7	EPA-8270C	ND		1
4-Aminobiphenyl	ND	ug/L	20	5.2	EPA-8270C	ND		1
Aramite	ND	ug/L	10	2.3	EPA-8270C	ND		1
Benefin	ND	ug/L	10	0.88	EPA-8270C	ND		1
Carbazole	ND	ug/L	2.0	0.20	EPA-8270C	ND		1
cis-Chlordane	ND	ug/L	5.0	0.30	EPA-8270C	ND		1
trans-Chlordane	ND	ug/L	5.0	0.40	EPA-8270C	ND		1
Chlorobenzilate	ND	ug/L	10	0.29	EPA-8270C	ND		1
1-Chloronaphthalene	ND	ug/L	10	0.28	EPA-8270C	ND		1
cis-Diallate	ND	ug/L	5.0	0.21	EPA-8270C	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1410961-07	Client Sample Name: JPL-GW, MW-18-4, 5/15/2014 11:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
trans-Diallate	ND	ug/L	5.0	0.22	EPA-8270C	ND		1
Diallate	ND	ug/L	10	0.42	EPA-8270C	ND		1
2,6-Dichlorophenol	ND	ug/L	10	1.3	EPA-8270C	ND		1
Dimethoate	ND	ug/L	20	0.46	EPA-8270C	ND		1
p-(Dimethylamino)azobenzene	ND	ug/L	10	0.54	EPA-8270C	ND		1
7,12-Dimethylbenz[a]anthracene	ND	ug/L	10	0.41	EPA-8270C	ND		1
3,3'-Dimethylbenzidine	ND	ug/L	20	5.4	EPA-8270C	ND		1
a,a-Dimethylphenethylamine	ND	ug/L	20	2.5	EPA-8270C	ND		1
Dimethyl sulfoxide (DMSO)	ND	ug/L	10	1.0	EPA-8270C	ND		1
1,3-Dinitrobenzene	ND	ug/L	10	0.23	EPA-8270C	ND		1
Dinoseb	ND	ug/L	10	0.61	EPA-8270C	ND		1
Diphenylamine	ND	ug/L	10	0.20	EPA-8270C	ND		1
Disulfoton	ND	ug/L	10	0.44	EPA-8270C	ND		1
Ethyl methacrylate	ND	ug/L	10	0.19	EPA-8270C	ND		1
Ethyl methanesulfonate	ND	ug/L	10	0.26	EPA-8270C	ND		1
Ethyl Parathion	ND	ug/L	10	0.31	EPA-8270C	ND		1
Famphur	ND	ug/L	20	8.3	EPA-8270C	ND		1
Hexachlorophene	ND	ug/L	200	35	EPA-8270C	ND		1
Hexachloropropene	ND	ug/L	20	0.46	EPA-8270C	ND		1
Isodrin	ND	ug/L	10	0.31	EPA-8270C	ND		1
cis-Isosafrole	ND	ug/L	5.0	0.41	EPA-8270C	ND		1
trans-Isosafrole	ND	ug/L	5.0	0.36	EPA-8270C	ND		1
Isosafrole	ND	ug/L	10	0.76	EPA-8270C	ND		1
Kepone	ND	ug/L	20	1.5	EPA-8270C	ND		1
Methapyrilene	ND	ug/L	10	1.5	EPA-8270C	ND		1
Methoxychlor	ND	ug/L	10	0.40	EPA-8270C	ND		1
3-Methylcholanthrene	ND	ug/L	10	0.56	EPA-8270C	ND		1
Methyl methacrylate	ND	ug/L	40	22	EPA-8270C	ND		1
Methyl methanesulfonate	ND	ug/L	10	0.42	EPA-8270C	ND		1
1-Methylnaphthalene	ND	ug/L	10	0.41	EPA-8270C	ND		1
Methyl parathion	ND	ug/L	10	0.32	EPA-8270C	ND		1
N-Methyl-2-pyrrolidinone	ND	ug/L	10	1.6	EPA-8270C	ND		1
1,4-Naphthoquinone	ND	ug/L	20	2.1	EPA-8270C	ND		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1410961-07	Client Sample Name: JPL-GW, MW-18-4, 5/15/2014 11:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1-Naphthylamine	ND	ug/L	20	5.3	EPA-8270C	ND		1
5-Nitro-o-toluidine	ND	ug/L	10	0.44	EPA-8270C	ND		1
4-Nitroquinoline 1-oxide	ND	ug/L	20	12	EPA-8270C	ND		1
N-Nitrosodibutylamine	ND	ug/L	10	0.41	EPA-8270C	ND		1
N-Nitrosodiethylamine	ND	ug/L	10	0.43	EPA-8270C	ND		1
N-Nitrosomethylethylamine	ND	ug/L	10	0.37	EPA-8270C	ND		1
N-Nitrosomorpholine	ND	ug/L	10	0.35	EPA-8270C	ND		1
N-Nitrosopiperidine	ND	ug/L	10	0.44	EPA-8270C	ND		1
N-Nitrosopyrrolidine	ND	ug/L	10	0.44	EPA-8270C	ND		1
Pentachlorobenzene	ND	ug/L	10	0.25	EPA-8270C	ND		1
Pentachloroethane	ND	ug/L	20	1.0	EPA-8270C	ND		1
Pentachloronitrobenzene	ND	ug/L	10	0.30	EPA-8270C	ND		1
Phenacetin	ND	ug/L	10	0.20	EPA-8270C	ND		1
1,4-Phenylenediamine	ND	ug/L	20	2.2	EPA-8270C	ND		1
Phorate	ND	ug/L	10	0.34	EPA-8270C	ND		1
2-Picoline	ND	ug/L	10	0.23	EPA-8270C	ND		1
PCB-1016	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1221	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1232	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1242	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1248	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1254	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1260	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1262	ND	ug/L	50	25	EPA-8270C	ND		1
PCB-1268	ND	ug/L	50	25	EPA-8270C	ND		1
Total PCB's (Summation)	ND	ug/L	50	25	EPA-8270C	ND		1
Prometryn	ND	ug/L	10	1.7	EPA-8270C	ND		1
Pronamide	ND	ug/L	10	0.29	EPA-8270C	ND		1
Propyleneglycol monomethyl ether acetate	ND	ug/L	10	4.2	EPA-8270C	ND		1
Prowl	ND	ug/L	10	0.83	EPA-8270C	ND		1
Pyridine	ND	ug/L	10	0.27	EPA-8270C	ND		1
Safrole	ND	ug/L	10	0.33	EPA-8270C	ND		1
Sulfotep	ND	ug/L	10	0.43	EPA-8270C	ND		1

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3761 Attucks Drive
Powell, OH 43065

Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

BCL Sample ID: 1410961-07	Client Sample Name: JPL-GW, MW-18-4, 5/15/2014 11:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1,2,4,5-Tetrachlorobenzene	ND	ug/L	10	0.39	EPA-8270C	ND		1
2,3,4,5-Tetrachlorophenol	ND	ug/L	10	5.0	EPA-8270C	ND		1
2,3,4,6-Tetrachlorophenol	ND	ug/L	10	4.7	EPA-8270C	ND		1
Thionazin	ND	ug/L	10	0.21	EPA-8270C	ND		1
2-Toluidine	ND	ug/L	10	0.49	EPA-8270C	ND		1
Toxaphene	ND	ug/L	100	50	EPA-8270C	ND		1
o,o,o-Triethylphosphorothioate	ND	ug/L	10	0.42	EPA-8270C	ND		1
1,3,5-Trinitrobenzene	ND	ug/L	10	0.30	EPA-8270C	ND		1
Tris(hydroxymethyl)nitromethane	ND	ug/L	50	5.0	EPA-8270C	ND		1
2-Fluorophenol (Surrogate)	42.2	%	30 - 120 (LCL - UCL)		EPA-8270C			1
Phenol-d5 (Surrogate)	26.5	%	12 - 110 (LCL - UCL)		EPA-8270C			1
Nitrobenzene-d5 (Surrogate)	74.3	%	60 - 130 (LCL - UCL)		EPA-8270C			1
2-Fluorobiphenyl (Surrogate)	86.0	%	55 - 125 (LCL - UCL)		EPA-8270C			1
2,4,6-Tribromophenol (Surrogate)	80.2	%	40 - 150 (LCL - UCL)		EPA-8270C			1
p-Terphenyl-d14 (Surrogate)	100	%	40 - 150 (LCL - UCL)		EPA-8270C			1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	05/20/14	05/22/14 18:07	VH1	MS-B2	0.980	BXE1933

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

BCL Sample ID:	1410961-07	Client Sample Name:	JPL-GW, MW-18-4, 5/15/2014 11:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
1-Acetyl-2-thiourea	0	ug/L			EPA-8270C	0		1
2-Aminoanthraquinone	0	ug/L			EPA-8270C	0		1
3-Amino-9-ethylcarbazole	0	ug/L			EPA-8270C	0		1
Anilazine	0	ug/L			EPA-8270C	0		1
o-Anisidine	0	ug/L			EPA-8270C	0		1
Azinphos methyl	0	ug/L			EPA-8270C	0		1
Barban	0	ug/L			EPA-8270C	0		1
p-Benzoquinone	0	ug/L			EPA-8270C	0		1
Bromoxynil	0	ug/L			EPA-8270C	0		1
Captafol	0	ug/L			EPA-8270C	0		1
Captan	0	ug/L			EPA-8270C	0		1
Carbaryl	0	ug/L			EPA-8270C	0		1
Carbofuran	0	ug/L			EPA-8270C	0		1
Carbophenothion	0	ug/L			EPA-8270C	0		1
Chlorfenvinphos	0	ug/L			EPA-8270C	0		1
5-Chloro-2-methylaniline	0	ug/L			EPA-8270C	0		1
3-(Chloromethyl) pyridine hydrochloride	0	ug/L			EPA-8270C	0		1
4-Chloro-1,2-phenylenediamine	0	ug/L			EPA-8270C	0		1
4-Chloro-1,3-phenylenediamine	0	ug/L			EPA-8270C	0		1
Coumaphos	0	ug/L			EPA-8270C	0		1
p-Cresidine	0	ug/L			EPA-8270C	0		1
Crotoxyphos	0	ug/L			EPA-8270C	0		1
2-Cyclohexyl-4,6-dinitrophenol	0	ug/L			EPA-8270C	0		1
Demeton-O	0	ug/L			EPA-8270C	0		1
Demeton-S	0	ug/L			EPA-8270C	0		1
2,4-Diaminotoluene	0	ug/L			EPA-8270C	0		1
Dibenz[a,j]acridine	0	ug/L			EPA-8270C	0		1
Dibenzo[a,e]pyrene	0	ug/L			EPA-8270C	0		1
1,2-Dibromo-3-chloropropane	0	ug/L			EPA-8270C	0		1
Dichlone	0	ug/L			EPA-8270C	0		1
Dichlorvos	0	ug/L			EPA-8270C	0		1
Dicrotophos	0	ug/L			EPA-8270C	0		1
Diethylstilbestrol	0	ug/L			EPA-8270C	0		1

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

BCL Sample ID:	1410961-07	Client Sample Name:	JPL-GW, MW-18-4, 5/15/2014 11:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Diethyl sulfate	0	ug/L			EPA-8270C	0		1
Dihydrosafrole	0	ug/L			EPA-8270C	0		1
3,3'-Dimethoxybenzidine	0	ug/L			EPA-8270C	0		1
1,2-Dinitrobenzene	0	ug/L			EPA-8270C	0		1
1,4-Dinitrobenzene	0	ug/L			EPA-8270C	0		1
Dinocap	0	ug/L			EPA-8270C	0		1
Dioxathion	0	ug/L			EPA-8270C	0		1
5,5-Diphenylhydantoin	0	ug/L			EPA-8270C	0		1
Endrin ketone	0	ug/L			EPA-8270C	0		1
EPN	0	ug/L			EPA-8270C	0		1
Ethion	0	ug/L			EPA-8270C	0		1
Ethyl carbamate	0	ug/L			EPA-8270C	0		1
Fensulfothion	0	ug/L			EPA-8270C	0		1
Fenthion	0	ug/L			EPA-8270C	0		1
Fluchloralin	0	ug/L			EPA-8270C	0		1
Hexamethylphosphoramide	0	ug/L			EPA-8270C	0		1
Hydroquinone	0	ug/L			EPA-8270C	0		1
Leptophos	0	ug/L			EPA-8270C	0		1
Malathion	0	ug/L			EPA-8270C	0		1
Maleic Anhydride	0	ug/L			EPA-8270C	0		1
Mestranol	0	ug/L			EPA-8270C	0		1
4,4'-Methylenebis(2-chloroaniline)	0	ug/L			EPA-8270C	0		1
4,4'-Methylenebis[N,N-dimethylaniline]	0	ug/L			EPA-8270C	0		1
Mevinphos	0	ug/L			EPA-8270C	0		1
Mexacarbate	0	ug/L			EPA-8270C	0		1
Mirex	0	ug/L			EPA-8270C	0		1
Monocrotophos	0	ug/L			EPA-8270C	0		1
Naled	0	ug/L			EPA-8270C	0		1
Nicotine	0	ug/L			EPA-8270C	0		1
5-Nitroacenaphthene	0	ug/L			EPA-8270C	0		1
5-Nitro-o-anisidine	0	ug/L			EPA-8270C	0		1
4-Nitrobiphenyl	0	ug/L			EPA-8270C	0		1
Nitrophen	0	ug/L			EPA-8270C	0		1

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Powell, OH 43065

Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

BCL Sample ID: 1410961-07	Client Sample Name: JPL-GW, MW-18-4, 5/15/2014 11:50:00AM, Blaine Tech
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Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Octamethylpyrophosphoramidate	0	ug/L			EPA-8270C	0		1
4,4'-Oxydianiline	0	ug/L			EPA-8270C	0		1
Phenobarbital	0	ug/L			EPA-8270C	0		1
Phosalone	0	ug/L			EPA-8270C	0		1
Phosmet	0	ug/L			EPA-8270C	0		1
Phosphamidon	0	ug/L			EPA-8270C	0		1
Phthalic anhydride	0	ug/L			EPA-8270C	0		1
Piperonyl sulfoxide	0	ug/L			EPA-8270C	0		1
Propylthiouracil	0	ug/L			EPA-8270C	0		1
Resorcinol	0	ug/L			EPA-8270C	0		1
Strychnine	0	ug/L			EPA-8270C	0		1
Sulfallate	0	ug/L			EPA-8270C	0		1
Terbufos	0	ug/L			EPA-8270C	0		1
Tetrachlorvinphos	0	ug/L			EPA-8270C	0		1
TEPP	0	ug/L			EPA-8270C	0		1
Thiophenol (Benzenethiol)	0	ug/L			EPA-8270C	0		1
Toluene 2,4-diisocyanate	0	ug/L			EPA-8270C	0		1
Trifluralin	0	ug/L			EPA-8270C	0		1
2,4,5-Trimethylaniline	0	ug/L			EPA-8270C	0		1
Trimethyl phosphate	0	ug/L			EPA-8270C	0		1
Tris(2,3-dibromopropyl) phosphate	0	ug/L			EPA-8270C	0		1
Tri-p-tolyl phosphate	0	ug/L			EPA-8270C	0		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-8270C	05/20/14	05/22/14 18:07	VH1	MS-B2	0.980	BXE1933

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Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1410961-08	Client Sample Name: JPL-GW, MW-21-5, 5/15/2014 2:00:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/16/14	05/16/14 07:30	TDC	KONE-1	1	BXE1438

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Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1410961-09	Client Sample Name: JPL-GW, MW-21-4, 5/15/2014 2:20:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/16/14	05/16/14 07:30	TDC	KONE-1	1	BXE1438

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Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1410961-10	Client Sample Name: JPL-GW, MW-21-3, 5/15/2014 2:35:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/16/14	05/16/14 07:30	TDC	KONE-1	1	BXE1438

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Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1410961-11	Client Sample Name: JPL-GW, MW-21-2, 5/15/2014 2:45:00PM, 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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/16/14	05/16/14 07:30	TDC	KONE-1	1	BXE1438

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Powell, OH 43065

Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1410961-12	Client Sample Name: JPL-GW, MW-21-1, 5/15/2014 2:55:00PM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/16/14	05/16/14 07:30	TDC	KONE-1	1	BXE1438

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Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE1933						
Acenaphthene	BXE1933-BLK1	ND	ug/L	2.0	0.24	
Acenaphthylene	BXE1933-BLK1	ND	ug/L	2.0	0.28	
Aldrin	BXE1933-BLK1	ND	ug/L	2.0	0.35	
Aniline	BXE1933-BLK1	ND	ug/L	5.0	0.69	
Anthracene	BXE1933-BLK1	ND	ug/L	2.0	0.30	
Benzidine	BXE1933-BLK1	ND	ug/L	20	7.1	
Benzo[a]anthracene	BXE1933-BLK1	ND	ug/L	2.0	0.38	
Benzo[b]fluoranthene	BXE1933-BLK1	ND	ug/L	2.0	0.41	
Benzo[k]fluoranthene	BXE1933-BLK1	ND	ug/L	2.0	0.31	
Benzo[a]pyrene	BXE1933-BLK1	ND	ug/L	2.0	0.20	
Benzo[g,h,i]perylene	BXE1933-BLK1	ND	ug/L	2.0	0.22	
Benzoic acid	BXE1933-BLK1	ND	ug/L	10	5.8	
Benzyl alcohol	BXE1933-BLK1	ND	ug/L	2.0	0.34	
Benzyl butyl phthalate	BXE1933-BLK1	ND	ug/L	2.0	0.47	
alpha-BHC	BXE1933-BLK1	ND	ug/L	2.0	0.27	
beta-BHC	BXE1933-BLK1	ND	ug/L	2.0	0.27	
delta-BHC	BXE1933-BLK1	ND	ug/L	2.0	0.30	
gamma-BHC (Lindane)	BXE1933-BLK1	ND	ug/L	2.0	0.22	
bis(2-Chloroethoxy)methane	BXE1933-BLK1	ND	ug/L	2.0	0.27	
bis(2-Chloroethyl) ether	BXE1933-BLK1	ND	ug/L	2.0	0.68	
bis(2-Chloroisopropyl)ether	BXE1933-BLK1	ND	ug/L	2.0	0.30	
bis(2-Ethylhexyl)phthalate	BXE1933-BLK1	ND	ug/L	4.0	3.0	
4-Bromophenyl phenyl ether	BXE1933-BLK1	ND	ug/L	2.0	0.23	
4-Chloroaniline	BXE1933-BLK1	ND	ug/L	2.0	0.69	
2-Chloronaphthalene	BXE1933-BLK1	ND	ug/L	2.0	0.34	
4-Chlorophenyl phenyl ether	BXE1933-BLK1	ND	ug/L	2.0	0.23	
Chrysene	BXE1933-BLK1	ND	ug/L	2.0	0.63	
4,4'-DDD	BXE1933-BLK1	ND	ug/L	2.0	0.48	
4,4'-DDE	BXE1933-BLK1	ND	ug/L	3.0	0.41	
4,4'-DDT	BXE1933-BLK1	ND	ug/L	2.0	0.43	
Dibenzo[a,h]anthracene	BXE1933-BLK1	ND	ug/L	3.0	0.26	
Dibenzofuran	BXE1933-BLK1	ND	ug/L	2.0	0.21	
1,2-Dichlorobenzene	BXE1933-BLK1	ND	ug/L	2.0	0.37	
1,3-Dichlorobenzene	BXE1933-BLK1	ND	ug/L	2.0	0.35	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE1933						
1,4-Dichlorobenzene	BXE1933-BLK1	ND	ug/L	2.0	0.31	
3,3-Dichlorobenzidine	BXE1933-BLK1	ND	ug/L	10	8.2	
Dieldrin	BXE1933-BLK1	ND	ug/L	3.0	0.41	
Diethyl phthalate	BXE1933-BLK1	ND	ug/L	2.0	0.33	
Dimethyl phthalate	BXE1933-BLK1	ND	ug/L	2.0	0.39	
Di-n-butyl phthalate	BXE1933-BLK1	ND	ug/L	2.0	0.39	
2,4-Dinitrotoluene	BXE1933-BLK1	ND	ug/L	2.0	0.26	
2,6-Dinitrotoluene	BXE1933-BLK1	ND	ug/L	2.0	0.41	
Di-n-octyl phthalate	BXE1933-BLK1	ND	ug/L	2.0	0.46	
1,2-Diphenylhydrazine	BXE1933-BLK1	ND	ug/L	2.0	0.34	
Endosulfan I	BXE1933-BLK1	ND	ug/L	10	1.7	
Endosulfan II	BXE1933-BLK1	ND	ug/L	10	1.2	
Endosulfan sulfate	BXE1933-BLK1	ND	ug/L	3.0	0.58	
Endrin	BXE1933-BLK1	ND	ug/L	2.0	1.1	
Endrin aldehyde	BXE1933-BLK1	ND	ug/L	10	0.52	
Fluoranthene	BXE1933-BLK1	ND	ug/L	2.0	0.20	
Fluorene	BXE1933-BLK1	ND	ug/L	2.0	0.28	
Heptachlor	BXE1933-BLK1	ND	ug/L	2.0	0.32	
Heptachlor epoxide	BXE1933-BLK1	ND	ug/L	2.0	0.27	
Hexachlorobenzene	BXE1933-BLK1	ND	ug/L	2.0	0.20	
Hexachlorobutadiene	BXE1933-BLK1	ND	ug/L	2.0	0.24	
Hexachlorocyclopentadiene	BXE1933-BLK1	ND	ug/L	2.0	0.30	
Hexachloroethane	BXE1933-BLK1	ND	ug/L	2.0	0.32	
Indeno[1,2,3-cd]pyrene	BXE1933-BLK1	ND	ug/L	2.0	0.26	
Isophorone	BXE1933-BLK1	ND	ug/L	2.0	0.31	
2-Methylnaphthalene	BXE1933-BLK1	ND	ug/L	2.0	0.28	
Naphthalene	BXE1933-BLK1	ND	ug/L	2.0	0.21	
2-Naphthylamine	BXE1933-BLK1	ND	ug/L	20	4.8	
2-Nitroaniline	BXE1933-BLK1	ND	ug/L	2.0	0.33	
3-Nitroaniline	BXE1933-BLK1	ND	ug/L	2.0	0.66	
4-Nitroaniline	BXE1933-BLK1	ND	ug/L	5.0	0.87	
Nitrobenzene	BXE1933-BLK1	ND	ug/L	2.0	0.26	
N-Nitrosodimethylamine	BXE1933-BLK1	ND	ug/L	2.0	0.61	
N-Nitrosodi-N-propylamine	BXE1933-BLK1	ND	ug/L	2.0	1.3	

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Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE1933						
N-Nitrosodiphenylamine	BXE1933-BLK1	ND	ug/L	2.0	0.44	
Phenanthrene	BXE1933-BLK1	ND	ug/L	2.0	0.20	
Pyrene	BXE1933-BLK1	ND	ug/L	2.0	0.26	
1,2,4-Trichlorobenzene	BXE1933-BLK1	ND	ug/L	2.0	0.27	
4-Chloro-3-methylphenol	BXE1933-BLK1	ND	ug/L	5.0	0.40	
2-Chlorophenol	BXE1933-BLK1	ND	ug/L	2.0	0.37	
2,4-Dichlorophenol	BXE1933-BLK1	ND	ug/L	2.0	0.43	
2,4-Dimethylphenol	BXE1933-BLK1	ND	ug/L	2.0	0.20	
4,6-Dinitro-2-methylphenol	BXE1933-BLK1	ND	ug/L	10	0.34	
2,4-Dinitrophenol	BXE1933-BLK1	ND	ug/L	10	0.20	
2-Methylphenol	BXE1933-BLK1	ND	ug/L	2.0	1.0	
3- & 4-Methylphenol	BXE1933-BLK1	ND	ug/L	2.0	1.6	
Total Methylphenol	BXE1933-BLK1	ND	ug/L	4.0	2.6	
2-Nitrophenol	BXE1933-BLK1	ND	ug/L	2.0	0.28	
4-Nitrophenol	BXE1933-BLK1	ND	ug/L	2.0	0.73	
Pentachlorophenol	BXE1933-BLK1	ND	ug/L	10	0.79	
Phenol	BXE1933-BLK1	ND	ug/L	2.0	0.20	
2,4,5-Trichlorophenol	BXE1933-BLK1	ND	ug/L	5.0	0.31	
2,4,6-Trichlorophenol	BXE1933-BLK1	ND	ug/L	5.0	0.60	
Acetophenone	BXE1933-BLK1	ND	ug/L	10	3.0	
2-Acetylaminofluorene	BXE1933-BLK1	ND	ug/L	10	0.38	
Acrolein, dimethyl acetal	BXE1933-BLK1	ND	ug/L	40	7.7	
4-Aminobiphenyl	BXE1933-BLK1	ND	ug/L	20	5.2	
Aramite	BXE1933-BLK1	ND	ug/L	10	2.3	
Benefin	BXE1933-BLK1	ND	ug/L	10	0.88	
Carbazole	BXE1933-BLK1	ND	ug/L	2.0	0.20	
cis-Chlordane	BXE1933-BLK1	ND	ug/L	5.0	0.30	
trans-Chlordane	BXE1933-BLK1	ND	ug/L	5.0	0.40	
Chlorobenzilate	BXE1933-BLK1	ND	ug/L	10	0.29	
1-Chloronaphthalene	BXE1933-BLK1	ND	ug/L	10	0.28	
cis-Diallate	BXE1933-BLK1	ND	ug/L	5.0	0.21	
trans-Diallate	BXE1933-BLK1	ND	ug/L	5.0	0.22	
Diallate	BXE1933-BLK1	ND	ug/L	10	0.42	
2,6-Dichlorophenol	BXE1933-BLK1	ND	ug/L	10	1.3	

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Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE1933						
Dimethoate	BXE1933-BLK1	ND	ug/L	20	0.46	
p-(Dimethylamino)azobenzene	BXE1933-BLK1	ND	ug/L	10	0.54	
7,12-Dimethylbenz[a]anthracene	BXE1933-BLK1	ND	ug/L	10	0.41	
3,3'-Dimethylbenzidine	BXE1933-BLK1	ND	ug/L	20	5.4	
a,a-Dimethylphenethylamine	BXE1933-BLK1	ND	ug/L	20	2.5	
Dimethyl sulfoxide (DMSO)	BXE1933-BLK1	ND	ug/L	10	1.0	
1,3-Dinitrobenzene	BXE1933-BLK1	ND	ug/L	10	0.23	
Dinoseb	BXE1933-BLK1	ND	ug/L	10	0.61	
Diphenylamine	BXE1933-BLK1	ND	ug/L	10	0.20	
Disulfoton	BXE1933-BLK1	ND	ug/L	10	0.44	
Ethyl methacrylate	BXE1933-BLK1	ND	ug/L	10	0.19	
Ethyl methanesulfonate	BXE1933-BLK1	ND	ug/L	10	0.26	
Ethyl Parathion	BXE1933-BLK1	ND	ug/L	10	0.31	
Famphur	BXE1933-BLK1	ND	ug/L	20	8.3	
Hexachlorophene	BXE1933-BLK1	ND	ug/L	200	35	
Hexachloropropene	BXE1933-BLK1	ND	ug/L	20	0.46	
Isodrin	BXE1933-BLK1	ND	ug/L	10	0.31	
cis-Isosafrole	BXE1933-BLK1	ND	ug/L	5.0	0.41	
trans-Isosafrole	BXE1933-BLK1	ND	ug/L	5.0	0.36	
Isosafrole	BXE1933-BLK1	ND	ug/L	10	0.76	
Kepone	BXE1933-BLK1	ND	ug/L	20	1.5	
Methapyrilene	BXE1933-BLK1	ND	ug/L	10	1.5	
Methoxychlor	BXE1933-BLK1	ND	ug/L	10	0.40	
3-Methylcholanthrene	BXE1933-BLK1	ND	ug/L	10	0.56	
Methyl methacrylate	BXE1933-BLK1	ND	ug/L	40	22	
Methyl methanesulfonate	BXE1933-BLK1	ND	ug/L	10	0.42	
1-Methylnaphthalene	BXE1933-BLK1	ND	ug/L	10	0.41	
Methyl parathion	BXE1933-BLK1	ND	ug/L	10	0.32	
N-Methyl-2-pyrrolidinone	BXE1933-BLK1	ND	ug/L	10	1.6	
1,4-Naphthoquinone	BXE1933-BLK1	ND	ug/L	20	2.1	
1-Naphthylamine	BXE1933-BLK1	ND	ug/L	20	5.3	
5-Nitro-o-toluidine	BXE1933-BLK1	ND	ug/L	10	0.44	
4-Nitroquinoline 1-oxide	BXE1933-BLK1	ND	ug/L	20	12	
N-Nitrosodibutylamine	BXE1933-BLK1	ND	ug/L	10	0.41	

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Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE1933						
N-Nitrosodiethylamine	BXE1933-BLK1	ND	ug/L	10	0.43	
N-Nitrosomethylethylamine	BXE1933-BLK1	ND	ug/L	10	0.37	
N-Nitrosomorpholine	BXE1933-BLK1	ND	ug/L	10	0.35	
N-Nitrosopiperidine	BXE1933-BLK1	ND	ug/L	10	0.44	
N-Nitrosopyrrolidine	BXE1933-BLK1	ND	ug/L	10	0.44	
Pentachlorobenzene	BXE1933-BLK1	ND	ug/L	10	0.25	
Pentachloroethane	BXE1933-BLK1	ND	ug/L	20	1.0	
Pentachloronitrobenzene	BXE1933-BLK1	ND	ug/L	10	0.30	
Phenacetin	BXE1933-BLK1	ND	ug/L	10	0.20	
1,4-Phenylenediamine	BXE1933-BLK1	ND	ug/L	20	2.2	
Phorate	BXE1933-BLK1	ND	ug/L	10	0.34	
2-Picoline	BXE1933-BLK1	ND	ug/L	10	0.23	
PCB-1262	BXE1933-BLK1	ND	ug/L	50	25	
PCB-1268	BXE1933-BLK1	ND	ug/L	50	25	
PCB-1260	BXE1933-BLK1	ND	ug/L	50	25	
PCB-1254	BXE1933-BLK1	ND	ug/L	50	25	
PCB-1248	BXE1933-BLK1	ND	ug/L	50	25	
PCB-1242	BXE1933-BLK1	ND	ug/L	50	25	
PCB-1232	BXE1933-BLK1	ND	ug/L	50	25	
PCB-1221	BXE1933-BLK1	ND	ug/L	50	25	
PCB-1016	BXE1933-BLK1	ND	ug/L	50	25	
Total PCB's (Summation)	BXE1933-BLK1	ND	ug/L	50	25	
Prometryn	BXE1933-BLK1	ND	ug/L	10	1.7	
Pronamide	BXE1933-BLK1	ND	ug/L	10	0.29	
Propyleneglycol monomethyl ether acetate	BXE1933-BLK1	ND	ug/L	10	4.2	
Prowl	BXE1933-BLK1	ND	ug/L	10	0.83	
Pyridine	BXE1933-BLK1	ND	ug/L	10	0.27	
Safrole	BXE1933-BLK1	ND	ug/L	10	0.33	
Sulfotep	BXE1933-BLK1	ND	ug/L	10	0.43	
1,2,4,5-Tetrachlorobenzene	BXE1933-BLK1	ND	ug/L	10	0.39	
2,3,4,5-Tetrachlorophenol	BXE1933-BLK1	ND	ug/L	10	5.0	
2,3,4,6-Tetrachlorophenol	BXE1933-BLK1	ND	ug/L	10	4.7	
Thionazin	BXE1933-BLK1	ND	ug/L	10	0.21	
2-Toluidine	BXE1933-BLK1	ND	ug/L	10	0.49	

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

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE1933						
Toxaphene	BXE1933-BLK1	ND	ug/L	100	50	
o,o,o-Triethylphosphorothioate	BXE1933-BLK1	ND	ug/L	10	0.42	
1,3,5-Trinitrobenzene	BXE1933-BLK1	ND	ug/L	10	0.30	
Tris(hydroxymethyl)nitromethane	BXE1933-BLK1	ND	ug/L	50	5.0	
2-Fluorophenol (Surrogate)	BXE1933-BLK1	44.5	%	30 - 120 (LCL - UCL)		
Phenol-d5 (Surrogate)	BXE1933-BLK1	30.3	%	12 - 110 (LCL - UCL)		
Nitrobenzene-d5 (Surrogate)	BXE1933-BLK1	81.7	%	60 - 130 (LCL - UCL)		
2-Fluorobiphenyl (Surrogate)	BXE1933-BLK1	86.5	%	55 - 125 (LCL - UCL)		
2,4,6-Tribromophenol (Surrogate)	BXE1933-BLK1	84.0	%	40 - 150 (LCL - UCL)		
p-Terphenyl-d14 (Surrogate)	BXE1933-BLK1	102	%	40 - 150 (LCL - UCL)		

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Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXE1933										
Acenaphthene	BXE1933-BS1	LCS	40.384	50.000	ug/L	80.8		50 - 120		
1,4-Dichlorobenzene	BXE1933-BS1	LCS	36.309	50.000	ug/L	72.6		50 - 120		
2,4-Dinitrotoluene	BXE1933-BS1	LCS	38.190	50.000	ug/L	76.4		50 - 120		
Hexachlorobenzene	BXE1933-BS1	LCS	37.306	50.000	ug/L	74.6		60 - 120		
Hexachlorobutadiene	BXE1933-BS1	LCS	34.371	50.000	ug/L	68.7		40 - 110		
Hexachloroethane	BXE1933-BS1	LCS	36.166	50.000	ug/L	72.3		40 - 120		
Nitrobenzene	BXE1933-BS1	LCS	38.684	50.000	ug/L	77.4		50 - 120		
N-Nitrosodi-N-propylamine	BXE1933-BS1	LCS	39.216	50.000	ug/L	78.4		50 - 120		
Pyrene	BXE1933-BS1	LCS	54.093	50.000	ug/L	108		40 - 140		
1,2,4-Trichlorobenzene	BXE1933-BS1	LCS	36.300	50.000	ug/L	72.6		45 - 120		
4-Chloro-3-methylphenol	BXE1933-BS1	LCS	42.864	50.000	ug/L	85.7		50 - 120		
2-Chlorophenol	BXE1933-BS1	LCS	34.409	50.000	ug/L	68.8		50 - 120		
2-Methylphenol	BXE1933-BS1	LCS	31.796	50.000	ug/L	63.6		40 - 110		
3- & 4-Methylphenol	BXE1933-BS1	LCS	64.324	100.00	ug/L	64.3		40 - 110		
4-Nitrophenol	BXE1933-BS1	LCS	17.414	50.000	ug/L	34.8		10 - 110		
Pentachlorophenol	BXE1933-BS1	LCS	36.993	50.000	ug/L	74.0		30 - 120		
Phenol	BXE1933-BS1	LCS	15.618	50.000	ug/L	31.2		20 - 110		
2,4,6-Trichlorophenol	BXE1933-BS1	LCS	41.648	50.000	ug/L	83.3		54 - 120		
Pyridine	BXE1933-BS1	LCS	20.330	50.000	ug/L	40.7		1 - 110		
2-Fluorophenol (Surrogate)	BXE1933-BS1	LCS	35.274	80.000	ug/L	44.1		30 - 120		
Phenol-d5 (Surrogate)	BXE1933-BS1	LCS	24.358	80.000	ug/L	30.4		12 - 110		
Nitrobenzene-d5 (Surrogate)	BXE1933-BS1	LCS	61.902	80.000	ug/L	77.4		60 - 130		
2-Fluorobiphenyl (Surrogate)	BXE1933-BS1	LCS	65.607	80.000	ug/L	82.0		55 - 125		
2,4,6-Tribromophenol (Surrogate)	BXE1933-BS1	LCS	72.058	80.000	ug/L	90.1		40 - 150		
p-Terphenyl-d14 (Surrogate)	BXE1933-BS1	LCS	44.194	40.000	ug/L	110		40 - 150		

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Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

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

Quality Control Report - Precision & Accuracy

Table with columns: Constituent, Source Type, Source Sample ID, Source Result, Result, Spike Added, Units, RPD, Percent Recovery, Control Limits RPD, Percent Recovery, Lab Quals. Includes QC Batch ID: BXE1933 and Used client sample: N.

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

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab
								Percent Recovery	Percent Recovery	
QC Batch ID: BXE1933		Used client sample: N								
Pyridine	MS	1407468-88	ND	17.434	50.000	ug/L		34.9		1 - 110
	MSD	1407468-88	ND	9.4700	50.000	ug/L	59.2	18.9	30	1 - 110 J,Q03
2-Fluorophenol (Surrogate)	MS	1407468-88	ND	33.116	80.000	ug/L		41.4		30 - 120
	MSD	1407468-88	ND	34.480	80.000	ug/L	4.0	43.1		30 - 120
Phenol-d5 (Surrogate)	MS	1407468-88	ND	23.879	80.000	ug/L		29.8		12 - 110
	MSD	1407468-88	ND	23.800	80.000	ug/L	0.3	29.8		12 - 110
Nitrobenzene-d5 (Surrogate)	MS	1407468-88	ND	60.736	80.000	ug/L		75.9		60 - 130
	MSD	1407468-88	ND	62.680	80.000	ug/L	3.1	78.4		60 - 130
2-Fluorobiphenyl (Surrogate)	MS	1407468-88	ND	63.914	80.000	ug/L		79.9		55 - 125
	MSD	1407468-88	ND	66.210	80.000	ug/L	3.5	82.8		55 - 125
2,4,6-Tribromophenol (Surrogate)	MS	1407468-88	ND	66.815	80.000	ug/L		83.5		40 - 150
	MSD	1407468-88	ND	69.810	80.000	ug/L	4.4	87.3		40 - 150
p-Terphenyl-d14 (Surrogate)	MS	1407468-88	ND	39.560	40.000	ug/L		98.9		40 - 150
	MSD	1407468-88	ND	44.350	40.000	ug/L	11.4	111		40 - 150

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE1933						
1-Acetyl-2-thiourea	BXE1933-BLK1	0	ug/L			
2-Aminoanthraquinone	BXE1933-BLK1	0	ug/L			
3-Amino-9-ethylcarbazole	BXE1933-BLK1	0	ug/L			
Anilazine	BXE1933-BLK1	0	ug/L			
o-Anisidine	BXE1933-BLK1	0	ug/L			
Azinphos methyl	BXE1933-BLK1	0	ug/L			
Barban	BXE1933-BLK1	0	ug/L			
p-Benzoquinone	BXE1933-BLK1	0	ug/L			
Bromoxynil	BXE1933-BLK1	0	ug/L			
Captafol	BXE1933-BLK1	0	ug/L			
Captan	BXE1933-BLK1	0	ug/L			
Carbaryl	BXE1933-BLK1	0	ug/L			
Carbofuran	BXE1933-BLK1	0	ug/L			
Carbophenothion	BXE1933-BLK1	0	ug/L			
Chlorfenvinphos	BXE1933-BLK1	0	ug/L			
5-Chloro-2-methylaniline	BXE1933-BLK1	0	ug/L			
3-(Chloromethyl) pyridine hydrochloride	BXE1933-BLK1	0	ug/L			
4-Chloro-1,2-phenylenediamine	BXE1933-BLK1	0	ug/L			
4-Chloro-1,3-phenylenediamine	BXE1933-BLK1	0	ug/L			
Coumaphos	BXE1933-BLK1	0	ug/L			
p-Cresidine	BXE1933-BLK1	0	ug/L			
Crotoxypfos	BXE1933-BLK1	0	ug/L			
2-Cyclohexyl-4,6-dinitrophenol	BXE1933-BLK1	0	ug/L			
Demeton-O	BXE1933-BLK1	0	ug/L			
Demeton-S	BXE1933-BLK1	0	ug/L			
2,4-Diaminotoluene	BXE1933-BLK1	0	ug/L			
Dibenz[a,j]acridine	BXE1933-BLK1	0	ug/L			
Dibenzo[a,e]pyrene	BXE1933-BLK1	0	ug/L			
1,2-Dibromo-3-chloropropane	BXE1933-BLK1	0	ug/L			
Dichlone	BXE1933-BLK1	0	ug/L			
Dichlorvos	BXE1933-BLK1	0	ug/L			
Dicrotophos	BXE1933-BLK1	0	ug/L			
Diethylstilbestrol	BXE1933-BLK1	0	ug/L			
Diethyl sulfate	BXE1933-BLK1	0	ug/L			

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE1933						
Dihydrosafrole	BXE1933-BLK1	0	ug/L			
3,3'-Dimethoxybenzidine	BXE1933-BLK1	0	ug/L			
1,2-Dinitrobenzene	BXE1933-BLK1	0	ug/L			
1,4-Dinitrobenzene	BXE1933-BLK1	0	ug/L			
Dinocap	BXE1933-BLK1	0	ug/L			
Dioxathion	BXE1933-BLK1	0	ug/L			
5,5-Diphenylhydantoin	BXE1933-BLK1	0	ug/L			
Endrin ketone	BXE1933-BLK1	0	ug/L			
EPN	BXE1933-BLK1	0	ug/L			
Ethion	BXE1933-BLK1	0	ug/L			
Ethyl carbamate	BXE1933-BLK1	0	ug/L			
Fensulfothion	BXE1933-BLK1	0	ug/L			
Fenthion	BXE1933-BLK1	0	ug/L			
Fluchloralin	BXE1933-BLK1	0	ug/L			
Hexamethylphosphoramide	BXE1933-BLK1	0	ug/L			
Hydroquinone	BXE1933-BLK1	0	ug/L			
Leptophos	BXE1933-BLK1	0	ug/L			
Malathion	BXE1933-BLK1	0	ug/L			
Maleic Anhydride	BXE1933-BLK1	0	ug/L			
Mestranol	BXE1933-BLK1	0	ug/L			
4,4'-Methylenebis(2-chloroaniline)	BXE1933-BLK1	0	ug/L			
4,4'-Methylenebis[N,N-dimethylaniline]	BXE1933-BLK1	0	ug/L			
Mevinphos	BXE1933-BLK1	0	ug/L			
Mexacarbate	BXE1933-BLK1	0	ug/L			
Mirex	BXE1933-BLK1	0	ug/L			
Monocrotophos	BXE1933-BLK1	0	ug/L			
Naled	BXE1933-BLK1	0	ug/L			
Nicotine	BXE1933-BLK1	0	ug/L			
5-Nitroacenaphthene	BXE1933-BLK1	0	ug/L			
5-Nitro-o-anisidine	BXE1933-BLK1	0	ug/L			
4-Nitrobiphenyl	BXE1933-BLK1	0	ug/L			
Nitrophen	BXE1933-BLK1	0	ug/L			
Octamethylpyrophosphoramide	BXE1933-BLK1	0	ug/L			
4,4'-Oxydianiline	BXE1933-BLK1	0	ug/L			

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Organic Analysis (EPA Method 8270C) TICs

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE1933						
Phenobarbital	BXE1933-BLK1	0	ug/L			
Phosalone	BXE1933-BLK1	0	ug/L			
Phosmet	BXE1933-BLK1	0	ug/L			
Phosphamidon	BXE1933-BLK1	0	ug/L			
Phthalic anhydride	BXE1933-BLK1	0	ug/L			
Piperonyl sulfoxide	BXE1933-BLK1	0	ug/L			
Propylthiouracil	BXE1933-BLK1	0	ug/L			
Resorcinol	BXE1933-BLK1	0	ug/L			
Strychnine	BXE1933-BLK1	0	ug/L			
Sulfallate	BXE1933-BLK1	0	ug/L			
Terbufos	BXE1933-BLK1	0	ug/L			
Tetrachlorvinphos	BXE1933-BLK1	0	ug/L			
TEPP	BXE1933-BLK1	0	ug/L			
Thiophenol (Benzenethiol)	BXE1933-BLK1	0	ug/L			
Toluene 2,4-diisocyanate	BXE1933-BLK1	0	ug/L			
Trifluralin	BXE1933-BLK1	0	ug/L			
2,4,5-Trimethylaniline	BXE1933-BLK1	0	ug/L			
Trimethyl phosphate	BXE1933-BLK1	0	ug/L			
Tris(2,3-dibromopropyl) phosphate	BXE1933-BLK1	0	ug/L			
Tri-p-tolyl phosphate	BXE1933-BLK1	0	ug/L			

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE1437						
Hexavalent Chromium	BXE1437-BLK1	ND	mg/L	0.0020	0.00070	
QC Batch ID: BXE1438						
Hexavalent Chromium	BXE1438-BLK1	ND	mg/L	0.0020	0.00070	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXE1437										
Hexavalent Chromium	BXE1437-BS1	LCS	0.049486	0.050000	mg/L	99.0		85	115	
QC Batch ID: BXE1438										
Hexavalent Chromium	BXE1438-BS1	LCS	0.051174	0.050000	mg/L	102		85	115	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
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	
QC Batch ID: BXE1437		Used client sample: Y - Description: MW-17-1, 05/15/2014 10:40								
Hexavalent Chromium	DUP	1410961-06	ND	ND		mg/L			10	
	MS	1410961-06	ND	0.051687	0.052632	mg/L		98.2		85 - 115
	MSD	1410961-06	ND	0.051499	0.052632	mg/L	0.4	97.8	10	85 - 115
QC Batch ID: BXE1438		Used client sample: Y - Description: MW-21-4, 05/15/2014 14:20								
Hexavalent Chromium	DUP	1410961-09	ND	ND		mg/L			10	
	MS	1410961-09	ND	0.054820	0.052632	mg/L		104		85 - 115
	MSD	1410961-09	ND	0.054657	0.052632	mg/L	0.3	104	10	85 - 115

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 06/06/2014 16:17
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Notes And Definitions

- J Estimated Value (CLP Flag)
- MDL Method Detection Limit
- ND Analyte Not Detected at or above the reporting limit
- PQL Practical Quantitation Limit
- RPD Relative Percent Difference
- Q03 Matrix spike recovery(s) is(are) not within the control limits.



Date of Report: 05/21/2014

David Conner

Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Client Project: 2nd Qtr.
BCL Project: JPL- GW Monitoring Wells
BCL Work Order: 1411053
Invoice ID: B173735

Enclosed are the results of analyses for samples received by the laboratory on 5/16/2014. 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; AK UST101

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Chain of Custody Form

Page 1 of 1

Required Fields

Report To: Tidewater, Inc.
 Client: Tidewater, Inc. (P.O. #1213-000-02)
 Attn: David Conner
 Street Address: 3761 Altucks Drive
 City: Powell State: OH Zip: 43065
 Phone: (614) 792-2897 Fax: (614) 792-2897
 Email Address: david.conner@tideh2o.net
 Submission #: 14-11053

Project Description: JPL-GW Monitoring
 Project Code: 2nd Qtr.
 Sampler(s): Blaine Tech

Analysis Requested

VOCs EPA 524.2	
TRM: Cr, Pb, As, Ca, Mg, K	
Na, Fe	
Hexavalent Cr - 7196 (mg/L)	X
Cl, NO3, NO2, SO4, Perch.	
CO3, HCO3, Alk, TDS, pH	
Orthophosphate 365.1	
8270 Phenols	
8270 PAHs	

Matrix Types: S=Soil SL=Sludge DW=Drinking Water WW=Wastewater GW=Groundwater L=Liquid M=Miscellaneous O=Other
 Turnaround # of working days: 24 Hr Rush 48 Hr Rush 3-5 Day Rush 10-14 Day Rush
 Lab TAT Approval: _____ *Additional Charges May Apply

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

Cost Center:
 1. Relinquished By: [Signature] Date: 5-16-14 Time: 1445
 2. Relinquished By: Nicole Date: 5/16/14 Time: 1538
 3. Relinquished By: [Signature] Date: 5/16/14 Time: 1538

Global ID:
 1. Received By: [Signature] Date: 5/16/14 Time: 1538
 2. Received By: [Signature] Date: 5/16/14 Time: 1538
 3. Received By: [Signature] Date: 5/16/14 Time: 1538

Notes:
 SHORT HOLDING TIME
 Cr⁶, NO₂, NO₃, OP, SS
 DO, Cl₂, BOD, MBAS, COT
 CHK BY: [Signature] DISTRIBUTION: [Signature]
 SUBMIT: [Signature]

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. 15 07/01/13 Page 1 Of 1

Submission #: 14-11053

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

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: Voac Thermometer ID: 207 Date/Time: 5/16/14 2050
 Temperature: (A) 1.9 °C (C) 2.2 °C Analyst Init: J

SAMPLE CONTAINERS	SAMPLE NUMBERS									
	1	2	3	4	5	6	7	8	9	10
QT GENERAL MINERAL/GENERAL										
PT PE UNPRESERVED <u>8oz</u>	<u>A</u>	<u>A</u>	<u>A</u>							
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	()	()	()	()	()	()	()	()	()	()
QT EPA 413.1, 413.2, 413.1										
PT ODOR										
RADIOLOGICAL										
BACTERIOLOGICAL										
40 ml VOA VIAL- 504										
QT EPA 502/608/8080										
QT EPA 515.1/8150										
QT EPA 525										
QT EPA 525 TRAVEL BLANK										
100ml EPA 547										
100ml EPA 531.1										
QT EPA 548										
QT EPA 549										
QT EPA 632										
QT EPA 8015M										
QT AMBER										
8 OZ. JAR										
32 OZ. JAR										
SOIL SLEEVE										
PCB VIAL										
PLASTIC BAG										
FERROUS IRON										
ENCORE										
SMART KIT										
Summa Canister										

Comments: _____
 Sample Numbering Completed By: MW1 Date/Time: 5/16/14 @ 2050



Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:37
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Laboratory / Client Sample Cross Reference

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

1411053-01	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: EB-11-5/16/14 Sampled By: Blaine Tech of BAT	Receive Date: 05/16/2014 20:20 Sampling Date: 05/16/2014 08:00 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): EB-11-5/16/14 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1411053-02	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-19-5 Sampled By: Blaine Tech of BAT	Receive Date: 05/16/2014 20:20 Sampling Date: 05/16/2014 08:30 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous Delivery Work Order: Global ID: 0000000000 Location ID (FieldPoint): MW-19-5 Matrix: W Sample QC Type (SACode): CS Cooler ID:
-------------------	---	--

1411053-03	COC Number: --- Project Number: JPL-GW Sampling Location: --- Sampling Point: MW-19-4 Sampled By: Blaine Tech of BAT	Receive Date: 05/16/2014 20:20 Sampling Date: 05/16/2014 08:50 Sample Depth: --- Lab Matrix: Water Sample Type: Aqueous 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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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:37
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1411053-01	Client Sample Name: JPL-GW, EB-11-5/16/14, 5/16/2014 8:00:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	ND	mg/L	0.0020	0.00070	EPA-7196	ND		1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/16/14	05/16/14 21:20	TDC	KONE-1	1	BXE1512

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:37
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1411053-02	Client Sample Name: JPL-GW, MW-19-5, 5/16/2014 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

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/16/14	05/16/14 21:20	TDC	KONE-1	1	BXE1512

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Powell, OH 43065

Reported: 05/21/2014 15:37
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

BCL Sample ID: 1411053-03	Client Sample Name: JPL-GW, MW-19-4, 5/16/2014 8:50:00AM, Blaine Tech
----------------------------------	--

Constituent	Result	Units	PQL	MDL	Method	MB Bias	Lab Quals	Run #
Hexavalent Chromium	0.0013	mg/L	0.0020	0.00070	EPA-7196	ND	J	1

Run #	Method	Prep Date	Run Date/Time	Analyst	Instrument	Dilution	QC Batch ID
1	EPA-7196	05/16/14	05/16/14 21:20	TDC	KONE-1	1	BXE1512

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Tidewater Inc.
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Powell, OH 43065

Reported: 05/21/2014 15:37
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Method Blank Analysis

Constituent	QC Sample ID	MB Result	Units	PQL	MDL	Lab Quals
QC Batch ID: BXE1512						
Hexavalent Chromium	BXE1512-BLK1	ND	mg/L	0.0020	0.00070	

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Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:37
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Laboratory Control Sample

Constituent	QC Sample ID	Type	Result	Spike Level	Units	Percent Recovery	RPD	Control Limits		Lab
								Percent Recovery	RPD	
QC Batch ID: BXE1512										
Hexavalent Chromium	BXE1512-BS1	LCS	0.049640	0.050000	mg/L	99.3		85 - 115		

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Powell, OH 43065

Reported: 05/21/2014 15:37
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Metals Analysis

Quality Control Report - Precision & Accuracy

Constituent	Type	Source Sample ID	Source Result	Result	Spike Added	Units	RPD	Control Limits		Lab Quals
								Percent Recovery	RPD	
QC Batch ID: BXE1512		Used client sample: Y - Description: EB-11-5/16/14, 05/16/2014 08:00								
Hexavalent Chromium	DUP	1411053-01	ND	ND		mg/L			10	
	MS	1411053-01	ND	0.051405	0.052632	mg/L		97.7		85 - 115
	MSD	1411053-01	ND	0.051451	0.052632	mg/L	0.1	97.8	10	85 - 115

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

All results listed in this report are for the exclusive use of the submitting party. BC Laboratories, Inc. assumes no responsibility for report alteration, separation, detachment or third party interpretation.



Tidewater Inc.
3761 Attucks Drive
Powell, OH 43065

Reported: 05/21/2014 15:37
Project: JPL- GW Monitoring Wells
Project Number: 2nd Qtr.
Project Manager: David Conner

Notes And Definitions

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

ATTACHMENT 3-B: LABORATORY ANALYTICAL REPORTS

This attachment contains the laboratory analytical reports prepared by Eurofins | Eaton Analytical, of Monrovia California.

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

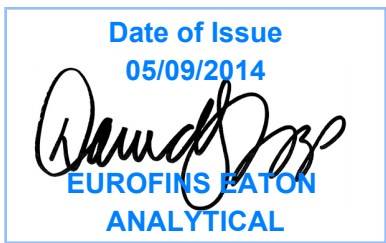


AT-1807

Laboratory Report

for

Tidewater, Inc.
Environmental Restoration and Infrastructure
4800 Oak Grove Drive
M/S 180-801
Pasadena, 91109
Attention: David Conner



DST: David S Tripp
Project Manager

Report: 478825
Project: TIDEWATER
Group: 2014 ANNUAL - NASA
PO#: Monitoring Wells

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.

* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.

* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.

* Test results relate only to the sample(s) tested.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Mississippi	Certified
Alaska	CA00006	Montana	Cert 0035
Arizona	AZ0778	Nebraska	Certified
Arkansas	Certified	Nevada	CA00006-2012-1
California-Monrovia-ELAP	2813	New Hampshire *	2959
California-Colton- ELAP	2812	New Jersey *	CA 008
California-Folsom- ELAP	2820	New Mexico	Certified
Colorado	Certified	New York *	11320
Connecticut	PH-0107	North Carolina	06701
Delaware	CA 006	North Dakota	R-009
Florida *	E871024	Oregon (Primary AB) *	ORELAP 4034
Georgia	947	Pennsylvania *	68-565
Guam	13-004r	Rhode Island	LAO00326
Hawaii	Certified	South Carolina	87016
Idaho	Certified	South Dakota	Certified
Illinois *	200033	Tennessee	TN02839
Indiana	C-CA-01	Texas *	T104704230-14-6
Kansas *	E-10268	Utah *	CA000062014-6
Kentucky	90107	Vermont	VT0114
Louisiana *	LA140009	Virginia *	00210
Maine	CA0006	Washington	C838
Maryland	224	West Virginia	9943 C
Commonwealth of Northern Marianas Is.	MP0004	Wisconsin	998316660
Massachusetts	M-CA006	Wyoming	8TMS-L
Michigan	9906	EPA Region 5	Certified
Los Angeles County Sanitation Districts	10264		

* NELAP/TNI Recognized Accreditation Bodies

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ACLASS.
Refer to Certificate and scope of accreditation (AT 1807) found at: <http://www.eatonanalytical.com>

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
1,4-Dioxane	EPA 522	x	x	
2,3,7,8-TCDD	Modified EPA 1613B	x	x	
Acrylamide	In House Method	x	x	
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H (18th)		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x	x	
Asbestos	EPA 100.2	x		
Bicarbonate Alkalinity as HCO3	SM 2330B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method	x	x	
Carbamates	EPA 531.2	x	x	
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x	x	
COD	EPA 410.4 / SM 5220D			x
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x	x	
Chlorinated Acids	EPA 555	x	x	
Chlorine Dioxide	SM 4500-CLO2 D	x	x	
Chlorine -Total/Free/ Combined Residual	SM 4500-CI G	x	x	x
Conductivity	EPA 120.1			x
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x	x	
Cyanide, Amenable	SM 4500-CN G	x		x
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method	x	x	
Diquat and Paraquat	EPA 549.2	x	x	
DBP/HAA	SM 6251B	x	x	
Dissolved Oxygen	SM 4500-O G		x	x
E. Coli (MTF/EC+MUG)		x		
E. Coli	CFR 141.21(f)(6)(i)		x	x
E. Coli	SM 9223			x
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x	x	
E. Coli (Enumeration)	SM 9223B	x	x	
EDB/DCBP	EPA 504.1	x		
EDB/DCBP and DBP	EPA 551.1	x	x	
EDTA and NTA	In House Method	x	x	
Endothall	EPA 548.1	x	x	
Enterococci	SM 9230B	x		x
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221 C, E (MTF/EC)			x
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x	x	
Fecal Coliform with Chlorine Present	SM 9221E			x
Fecal Streptococci	SM 9230B	x		x
Fluoride	SM 4500-F C	x	x	x
Glyphosate	EPA 547	x	x	
Gross Alpha/Beta	EPA 900.0	x	x	x
HAAs/ Dalapon	EPA 552.3	x	x	
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method	x	x	
Heterotrophic Bacteria	SM 9215 B	x	x	
Hexavalent Chromium	EPA 218.6	x	x	x
Hexavalent Chromium	EPA 218.7	x	x	
Hexavalent Chromium	SM 3500-Cr B or C (20th)			x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
Hormones	EPA 539	x	x	
Hydroxide as OH Calc.	SM 2330B	x	x	
Kjeldahl Nitrogen	EPA 351.2			x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA	x	x	
NDMA	EPA 521	x	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x	x	
Ortho Phosphate	EPA 365.1	x	x	
Ortho Phosphate and Total Phosphorous	EPA 365.1/SM 4500-P E			x
Ortho Phosphorous	SM 4500P E	x	x	
Oxyhalides Disinfection Byproducts	EPA 317.0	x	x	
Perchlorate	EPA 331.0	x	x	
Perchlorate	EPA 314.0	x	x	
Perfluorinated Alkyl Acids	EPA 537	x	x	
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method	x	x	
Pseudomonas	IDEXX Pseudalert	x	x	
Radium-226	RA-226 GA	x	x	
Radium-228	RA-228 GA	x	x	
Radon-222	SM 7500RN	x	x	
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D			x
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4			x
Semi-VOC	EPA 525.2	x	x	
Semi-VOC	EPA 625	x	x	x
Silica	SM 4500-Si D	x	x	x
Silica	SM 4500-SiO2 C	x		x
Sulfide	SM 4500-S ⁻ D			x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x	x	
Total Coliform	SM 9221 A, B	x	x	
Total Coliform (Enumeration)	SM 9221 A, B, C	x	x	
Total Coliform / E. coli	Colisure	x	x	
Total Coliform	SM 9221B			x
Total Coliform with Chlorine Present	SM 9221B			x
Total Coliform / E.coli	SM 9223	x	x	
TOC	SM 5310C		x	x
TOC/DOC	SM 5310C	x	x	
TOX	SM 5320B			x
Total Phenols	EPA 420.1			x
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P F			x
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x		x
Uranium by ICP/MS	EPA 200.8	x	x	
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x	x	
VOC	EPA 624	x	x	x
VOC	EPA SW 846 8260	x	x	
VOC	In House Method	x	x	
Yeast and Mold	SM 9610	x	x	

Acknowledgement of Samples Received

Addr: **Tidewater, Inc.**
 Environmental Restoration and Infrastructure
 4800 Oak Grove Drive
 M/S 180-801
 Pasadena91109
 Attn: David Conner
 Phone: 619-726-7311

Client ID: JPL-CA
 Folder #: 478825
 Project: TIDEWATER
 Sample Group: 2014 ANNUAL - NASA Monitoring
 Wells
 Project Manager: David S Tripp
 Phone: (626) 386-1158
 PO #: 1213-000-05

The following samples were received from you on **April 25, 2014**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample Date
201404260031	MW-24-1	04/24/2014 1345
	@DIOXANE @NDMA_SPE	

Test Description

- @DIOXANE -- 1,4-Dioxane
- @NDMA_SPE -- Nitrosamines by GCMS



Eaton Analytical

CHAIN OF CUSTODY RECORD

478825

EUROFINS EATON ANALYTICAL USE ONLY:

750 Royal Oaks Drive, Suite 100
 Monrovia, CA 91016-3629
 Phone: 626 386 1100
 Fax: 626 386 1101
 800 566 LABS (800 566 5227)

LOGIN COMMENTS:

SAMPLES CHECKED AGAINST COC BY: KA

SAMPLE TEMP RECEIVED AT:
 Colton / No. California / Arizona
 Monrovia

SAMPLES LOGGED IN BY: JS

SAMPLES REC'D DAY OF COLLECTION? (check for yes)

CONDITION OF BLUE ICE: Frozen 2.5 °C (Compliance: 4 ± 2 °C)
 Partially Frozen 2.5 °C (Compliance: 4 ± 2 °C)
 Thawed

Wet Ice No Ice

METHOD OF SHIPMENT: Pick-Up / Walk-In / FedEx / UPS / DHL / Area Fast / Top Line / Other:

TO BE COMPLETED BY SAMPLER:

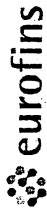
(check for yes)

(check for yes)

COMPANY/AGENCY NAME: <u>JPL-CA</u>		PROJECT CODE: <u>Tidewater Bottle Orders</u>	COMPLIANCE SAMPLES - Requires state forms	NON-COMPLIANCE SAMPLES				
EEA CLIENT CODE: <u>EEA</u>		SAMPLE GROUP: <u>Blaine Tech</u>	ROUTINE SPECIAL CONFIRMATION (eg. SDWA, Phase V, NPDES, FDA,...)	REGULATION INVOLVED:				
TAT requested: rush by adv notice only		STD <input checked="" type="checkbox"/> 1 wk <input type="checkbox"/> 3 day <input type="checkbox"/> 2 day <input type="checkbox"/> 1 day	SEE ATTACHED BOTTLE ORDER FOR ANALYSES (check for yes), OR					
SAMPLE DATE	SAMPLE TIME	SAMPLE ID	CLIENT LAB ID	MATRIX	FIELD DATA	FIELD DATA	LIST ANALYSES REQUIRED (enter number of bottles sent for each test for each sample)	SAMPLER COMMENTS
<u>4-24-1345</u>	<u>1145-24-1</u>			<u>Raw</u>			<u>EEA</u>	<u>EEA</u>
								<u>4/25/14</u>
								<u>1803</u>

* MATRIX TYPES: RSW = Raw Surface Water, RGW = Raw Ground Water, CFW = Chlor(am)inated Finished Water, FW = Other Finished Water
 SEAW = Sea Water, WW = Waste Water, BW = Bottled Water, SW = Storm Water, SO = Soil, SL = Sludge

SIGNED BY:	SIGNATURE	PRINT NAME	COMPANY/TITLE	DATE	TIME
RELINQUISHED BY:	<u>Andy Wolff</u>	<u>"Andy Wolff"</u>	<u>Blaine Tech/Area Supervisor</u>	<u>4-24-14</u>	<u>1630</u>
RECEIVED BY:	<u>Nicole</u>	<u>NICOLE</u>	<u>Blaine Tech SERVICES.</u>	<u>4-24-14</u>	<u>1630</u>
RELINQUISHED BY:	<u>Jan Bahayot</u>	<u>JAN BAHAYOT</u>	<u>EEA</u>	<u>4/25/14</u>	<u>1630</u>
RECEIVED BY:	<u>Jan Bahayot</u>	<u>JAN BAHAYOT</u>	<u>EEA</u>	<u>4/25/14</u>	<u>1630</u>



Eaton Analytical
formerly MWH Laboratories

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
(626) 386-1100 FAX (626) 386-1101

Kit Order for Jet F
David S Tripp is your Eurofins

Note: Sampler Please return

Kit #: 89296

Created By: ADT

Deliver By: 04/17/2014

STG: Bottle Orders

Ice Type: W

Client ID: JP
Project Code: TIE
Group Name: 20
PO#/JOB#: 12

Ship Sample Kits to
Jet Propulsion Laboratory
20735 Beishaw Avenue
Carson, CA 90746

Attn: Robert Sunjara
Phone: 310-885-4455 x 115

Send Report/Address
Tidewater, Inc.
Environmental Restoration and
Infrastructure
4800 Oak Gr Grove Drive
Pasadena, CA 91109
Attn: David Cd Conner
Phone: 619-79-726-7311
Fax: 614-458458-6641

# of Samples	Tests	Bottles - Qty for each	UN DOT #
7	@2378-TCDD_Dioxin	2 1L amber glass D1	
7	@8330EDD EMAX	2 1L amber glass 1m	
7	@ANIONS48, Fluoride	1 125ml poly no pre	
12	@DIOXANE	3 125ml amber glass	
7	@ML521_SPE8	3 500ml amber glass	
5	@NDMA_SPE	3 500ml amber glass	
7	@PCBS	4 40ml amber glass \	
7	@TCP-524	3 40ml amber glass \	UN1789
7	@TPH-DRO_LLI	1 4 oz glass, wide-mc	
7	@TPH-GRO_LLI	1 4 oz glass, wide-mc	
7	@VOASDWA	3 40ml amber glass \	UN1789
7	@VOA-TBA	4 40ml amber glass v	UN1789
7	Chlorate by IC	1 60mL poly 0.6mL l	
7	Hexavalent Chromium (Dissolved)	1 125ml poly 1.25 ml	

Comments

LABEL OUTSIDE OF COOLER WITH SITE NAME. INCLUDE WET ICE INSTRUCTIONS.

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Hits
Report: 478825

Tidewater, Inc.
David Conner
Environmental Restoration and Infrastructure
4800 Oak Grove Drive
M/S 180-801
Pasadena, 91109

Samples Received on:
04/25/2014

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
----------	---------	-----------	--------	-------------	-------	-----

750 Royal Oaks Drive, Suite 100
 Monrovia, California 91016-3629
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 Fax: (626) 386-1101
 1 800 566 LABS (1 800 566 5227)

Laboratory Data
 Report: 478825

Tidewater, Inc.
 David Conner
 Environmental Restoration and Infrastructure
 4800 Oak Grove Drive
 M/S 180-801
 Pasadena, 91109

Samples Received on:
 04/25/2014

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
MW-24-1 (201404260031)						Sampled on 04/24/2014 1345		
EPA 522 - 1,4-Dioxane								
4/29/2014	05/06/2014	1:16 767586	(EPA 522)	1,4-Dioxane	ND	ug/L	1	1
4/29/2014	05/06/2014	1:16 767586	(EPA 522)	Dioxane-d8	80	%		1
EPA 521 - Nitrosamines by GCMS								
5/2/2014	05/07/2014	03:49 767462	(EPA 521)	N-Nitroso-dimethylamine (NDMA)	ND	ng/L	2	1
5/2/2014	05/07/2014	03:49 767462	(EPA 521)	NDMA-D6	98	%		1

Rounding on totals after summation.
 (c) - indicates calculated results

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Tidewater, Inc.
David Conner
Environmental Restoration and Infrastructure
4800 Oak Grove Drive
M/S 180-801
Pasadena, 91109

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Tidewater, Inc.

QC Ref # 767462 - Nitrosamines by GCMS

201404260031 MW-24-1

Analysis Date: 05/07/2014

Analyzed by: KDT

QC Ref # 767586 - 1,4-Dioxane

201404260031 MW-24-1

Analysis Date: 05/06/2014

Analyzed by: CRW

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Tidewater, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 767462 - Nitrosamines by GCMS by EPA 521						Analysis Date: 05/06/2014			
LCS3	NDMA-D6 (S)			96.9	%	97	(70-130)		
MBLK	NDMA-D6 (S)			72.2	%	72	(70-130)		
MRL_CHK	NDMA-D6 (S)			84.9	%	85	(70-130)		
MS2_201404290641	NDMA-D6 (S)			90.2	%	90	(70-130)		
MSD2_201404290641	NDMA-D6 (S)			76.6	%	77	(70-130)		
LCS3	N-Nitroso dimethylamine (NDMA)		80	61.9	ng/L	77	(70-130)		
MBLK	N-Nitroso dimethylamine (NDMA)			<2	ng/L				
MRL_CHK	N-Nitroso dimethylamine (NDMA)		2.0	1.54	ng/L	77	(50-150)		
MS2_201404290641	N-Nitroso dimethylamine (NDMA)	ND	40	67.5	ng/L	<u>169</u>	(70-130)		
MSD2_201404290641	N-Nitroso dimethylamine (NDMA)	ND	40	30.0	ng/l	75	(70-130)	30	<u>77</u>
QC Ref# 767552 - 1,4-Dioxane by EPA 522						Analysis Date: 05/02/2014			
LCS1	Dioxane		20	16.0	ug/L	80	(70-130)		
LCS2	Dioxane		20	17.0	ug/L	85	(70-130)	20	6.1
MBLK	Dioxane			<1	ug/L				
MRLLW	Dioxane		0.07	0.0540	ug/L	77	(50-150)		
MS1_201404230735	Dioxane	ND	0.07	0.0520	ug/L	74	(50-150)		
MSD1_201404230735	Dioxane	ND	0.07	0.0460	ug/L	66	(50-150)	20	12
LCS1	Dioxane-d8 (S)			79.8	%	80	(70-130)		
LCS2	Dioxane-d8 (S)			84.4	%	84	(70-130)		
MBLK	Dioxane-d8 (S)			81.7	%	82	(70-130)		
MRLLW	Dioxane-d8 (S)			80.7	%	81	(70-130)		
MS1_201404230735	Dioxane-d8 (S)			81.0	%	81	(70-130)		
MSD1_201404230735	Dioxane-d8 (S)			83.3	%	83	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

750 Royal Oaks Drive, Suite 100
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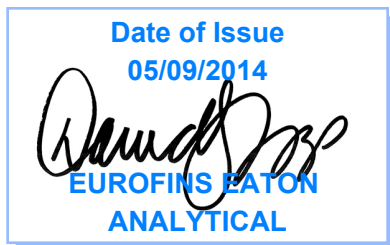


AT-1807

Laboratory Report

for

Tidewater, Inc.
Environmental Restoration and Infrastructure
4800 Oak Grove Drive
M/S 180-801
Pasadena, 91109
Attention: David Conner



DST: David S Tripp
Project Manager

Report: 478951
Project: TIDEWATER
Group: 2014 ANNUAL - NASA
PO#: Monitoring Wells

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.

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STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Mississippi	Certified
Alaska	CA00006	Montana	Cert 0035
Arizona	AZ0778	Nebraska	Certified
Arkansas	Certified	Nevada	CA00006-2012-1
California-Monrovia-ELAP	2813	New Hampshire *	2959
California-Colton- ELAP	2812	New Jersey *	CA 008
California-Folsom- ELAP	2820	New Mexico	Certified
Colorado	Certified	New York *	11320
Connecticut	PH-0107	North Carolina	06701
Delaware	CA 006	North Dakota	R-009
Florida *	E871024	Oregon (Primary AB) *	ORELAP 4034
Georgia	947	Pennsylvania *	68-565
Guam	13-004r	Rhode Island	LAO00326
Hawaii	Certified	South Carolina	87016
Idaho	Certified	South Dakota	Certified
Illinois *	200033	Tennessee	TN02839
Indiana	C-CA-01	Texas *	T104704230-14-6
Kansas *	E-10268	Utah *	CA000062014-6
Kentucky	90107	Vermont	VT0114
Louisiana *	LA140009	Virginia *	00210
Maine	CA0006	Washington	C838
Maryland	224	West Virginia	9943 C
Commonwealth of Northern Marianas Is.	MP0004	Wisconsin	998316660
Massachusetts	M-CA006	Wyoming	8TMS-L
Michigan	9906	EPA Region 5	Certified
Los Angeles County Sanitation Districts	10264		

* NELAP/TNI Recognized Accreditation Bodies

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Refer to Certificate and scope of accreditation (AT 1807) found at: <http://www.eatonanalytical.com>

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
1,4-Dioxane	EPA 522	x	x	
2,3,7,8-TCDD	Modified EPA 1613B	x	x	
Acrylamide	In House Method	x	x	
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H (18th)		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x	x	
Asbestos	EPA 100.2	x		
Bicarbonate Alkalinity as HCO3	SM 2330B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method	x	x	
Carbamates	EPA 531.2	x	x	
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x	x	
COD	EPA 410.4 / SM 5220D			x
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x	x	
Chlorinated Acids	EPA 555	x	x	
Chlorine Dioxide	SM 4500-CLO2 D	x	x	
Chlorine -Total/Free/ Combined Residual	SM 4500-CI G	x	x	x
Conductivity	EPA 120.1			x
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x	x	
Cyanide, Amenable	SM 4500-CN G	x		x
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method	x	x	
Diquat and Paraquat	EPA 549.2	x	x	
DBP/HAA	SM 6251B	x	x	
Dissolved Oxygen	SM 4500-O G		x	x
E. Coli (MTF/EC+MUG)		x		
E. Coli	CFR 141.21(f)(6)(i)		x	x
E. Coli	SM 9223			x
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x	x	
E. Coli (Enumeration)	SM 9223B	x	x	
EDB/DCBP	EPA 504.1	x		
EDB/DCBP and DBP	EPA 551.1	x	x	
EDTA and NTA	In House Method	x	x	
Endothall	EPA 548.1	x	x	
Enterococci	SM 9230B	x		x
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221 C, E (MTF/EC)			x
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x	x	
Fecal Coliform with Chlorine Present	SM 9221E			x
Fecal Streptococci	SM 9230B	x		x
Fluoride	SM 4500-F C	x	x	x
Glyphosate	EPA 547	x	x	
Gross Alpha/Beta	EPA 900.0	x	x	x
HAAs/ Dalapon	EPA 552.3	x	x	
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method	x	x	
Heterotrophic Bacteria	SM 9215 B	x	x	
Hexavalent Chromium	EPA 218.6	x	x	x
Hexavalent Chromium	EPA 218.7	x	x	
Hexavalent Chromium	SM 3500-Cr B or C (20th)			x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
Hormones	EPA 539	x	x	
Hydroxide as OH Calc.	SM 2330B	x	x	
Kjeldahl Nitrogen	EPA 351.2			x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA	x	x	
NDMA	EPA 521	x	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x	x	
Ortho Phosphate	EPA 365.1	x	x	
Ortho Phosphate and Total Phosphorous	EPA 365.1/SM 4500-P E			x
Ortho Phosphorous	SM 4500P E	x	x	
Oxyhalides Disinfection Byproducts	EPA 317.0	x	x	
Perchlorate	EPA 331.0	x	x	
Perchlorate	EPA 314.0	x	x	
Perfluorinated Alkyl Acids	EPA 537	x	x	
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method	x	x	
Pseudomonas	IDEXX Pseudalert	x	x	
Radium-226	RA-226 GA	x	x	
Radium-228	RA-228 GA	x	x	
Radon-222	SM 7500RN	x	x	
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D			x
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4			x
Semi-VOC	EPA 525.2	x	x	
Semi-VOC	EPA 625	x	x	x
Silica	SM 4500-Si D	x	x	x
Silica	SM 4500-SiO2 C	x		x
Sulfide	SM 4500-S ⁻ D			x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x	x	
Total Coliform	SM 9221 A, B	x	x	
Total Coliform (Enumeration)	SM 9221 A, B, C	x	x	
Total Coliform / E. coli	Colisure	x	x	
Total Coliform	SM 9221B			x
Total Coliform with Chlorine Present	SM 9221B			x
Total Coliform / E.coli	SM 9223	x	x	
TOC	SM 5310C		x	x
TOC/DOC	SM 5310C	x	x	
TOX	SM 5320B			x
Total Phenols	EPA 420.1			x
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P F			x
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x		x
Uranium by ICP/MS	EPA 200.8	x	x	
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x	x	
VOC	EPA 624	x	x	x
VOC	EPA SW 846 8260	x	x	
VOC	In House Method	x	x	
Yeast and Mold	SM 9610	x	x	

Acknowledgement of Samples Received

Addr: **Tidewater, Inc.**
 Environmental Restoration and Infrastructure
 4800 Oak Grove Drive
 M/S 180-801
 Pasadena91109
 Attn: David Conner
 Phone: 619-726-7311

Client ID: JPL-CA
 Folder #: 478951
 Project: TIDEWATER
 Sample Group: 2014 ANNUAL - NASA Monitoring Wells
 Project Manager: David S Tripp
 Phone: (626) 386-1158
 PO #: 1213-000-05

The following samples were received from you on **April 28, 2014**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample Date
201404280267	MW-17-4	04/28/2014 0740
	@DIOXANE @NDMA_SPE	

Test Description

- @DIOXANE -- 1,4-Dioxane
- @NDMA_SPE -- Nitrosamines by GCMS

Note: Sampler Please return this paper with your samples

Kit #: 89296

Created By: ADT

Deliver By: 04/17/2014

STG: Bottle Orders

Ice Type: W

Client ID: JPL-CA

Project Code: TIDEWATER Bottle Orders

Group Name: 2014 ANNUAL - NASA Monitoring Wells

PO#/JOB#: 1213-000-05

Ship Sample Kits to
Jet Propulsion Laboratory
20735 Belshaw Avenue
Carson, CA 90746

Attn: Robert Sunjara
Phone: 310-885-4455 x 115

Send Report to
Tidewater, Inc.
Environmental Restoration and
Infrastructure
4800 Oak Grove Drive
Pasadena, 91109

Attn: David Conner
Phone: 619-726-7311
Fax: 614-458-6641

Billing Address
Tidewater, Inc.
Environmental Restoration and
Infrastructure
4800 Oak Grove Drive
Pasadena, 91109

Attn: David Conner
Phone: 619-726-7311
Fax: 614-458-6641

# of Samples	Tests	Bottles - Qty for each sample, type & preservative if ai	UN DOT #
7	@2378-TCDD_Dioxin	2 1L amber glass D1613_NO_PRESERVATIVE	
7	@8330EDD EMAX	2 1L amber glass 1ml thio (8%)	
7	@ANIONS48, Fluoride	1 125ml poly no preservative	
12	@DIOXANE	3 125ml amber glass 6.25 Sulfitte +125 mg Bisulfite	
7	@ML521_SPE8	3 500ml amber glass 40-50 mg Na Thiosulfate	
5	@NDMA_SPE	3 500ml amber glass 40-50 mg Na Thiosulfate	
7	@PCBS	4 40ml amber glass vial 1drop thio (8%)	
7	@TCP-524	3 40ml amber glass vial TCP - 4drops of 1:1 HCL	UN1789
7	@TPH-DRO_LLI	1 4 oz glass, wide-mouth jar Diesel_no pres	
7	@TPH-GRO_LLI	1 4 oz glass, wide-mouth jar TPH Gas_no pres	
7	@VOASDWA	3 40ml amber glass vial 4drops 6N HCL (36%)	UN1789
7	@VOA-TBA	4 40ml amber glass vial TBA_4 drops 1:1 HCL	UN1789
7	Chlorate by IC	1 60mL poly 0.6mL 1% EDA solution	
7	Hexavalent Chromium (Dissolved)	1 125ml poly 1.25 ml NH4SO4/NH4OH buffer	

Comments

LABEL OUTSIDE OF COOLER WITH SITE NAME. INCLUDE WET ICE INSTRUCTIONS.

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Hits
Report: 478951

Tidewater, Inc.
David Conner
Environmental Restoration and Infrastructure
4800 Oak Grove Drive
M/S 180-801
Pasadena, 91109

Samples Received on:
04/28/2014

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
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750 Royal Oaks Drive, Suite 100
 Monrovia, California 91016-3629
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Laboratory Data
 Report: 478951

Tidewater, Inc.
 David Conner
 Environmental Restoration and Infrastructure
 4800 Oak Grove Drive
 M/S 180-801
 Pasadena, 91109

Samples Received on:
 04/28/2014

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
MW-17-4 (201404280267)						Sampled on 04/28/2014 0740		
EPA 522 - 1,4-Dioxane								
4/29/2014	05/06/2014	3:16 767586	(EPA 522)	1,4-Dioxane	ND	ug/L	1	1
4/29/2014	05/06/2014	3:16 767586	(EPA 522)	Dioxane-d8	81	%		1
EPA 521 - Nitrosamines by GCMS								
5/2/2014	05/07/2014	05:40 767462	(EPA 521)	N-Nitroso-dimethylamine (NDMA)	ND	ng/L	2	1
5/2/2014	05/07/2014	05:40 767462	(EPA 521)	NDMA-D6	88	%		1

Rounding on totals after summation.
 (c) - indicates calculated results

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David Conner
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Tidewater, Inc.

QC Ref # 767462 - Nitrosamines by GCMS

201404280267 MW-17-4

Analysis Date: 05/07/2014

Analyzed by: KDT

QC Ref # 767586 - 1,4-Dioxane

201404280267 MW-17-4

Analysis Date: 05/06/2014

Analyzed by: CRW

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
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Tidewater, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 767462 - Nitrosamines by GCMS by EPA 521						Analysis Date: 05/06/2014			
LCS3	NDMA-D6 (S)			96.9	%	97	(70-130)		
MBLK	NDMA-D6 (S)			72.2	%	72	(70-130)		
MRL_CHK	NDMA-D6 (S)			84.9	%	85	(70-130)		
MS2_201404290641	NDMA-D6 (S)			90.2	%	90	(70-130)		
MSD2_201404290641	NDMA-D6 (S)			76.6	%	77	(70-130)		
LCS3	N-Nitroso dimethylamine (NDMA)		80	61.9	ng/L	77	(70-130)		
MBLK	N-Nitroso dimethylamine (NDMA)			<2	ng/L				
MRL_CHK	N-Nitroso dimethylamine (NDMA)		2.0	1.54	ng/L	77	(50-150)		
MS2_201404290641	N-Nitroso dimethylamine (NDMA)	ND	40	67.5	ng/L	<u>169</u>	(70-130)		
MSD2_201404290641	N-Nitroso dimethylamine (NDMA)	ND	40	30.0	ng/l	75	(70-130)	30	<u>77</u>
QC Ref# 767552 - 1,4-Dioxane by EPA 522						Analysis Date: 05/02/2014			
LCS1	Dioxane		20	16.0	ug/L	80	(70-130)		
LCS2	Dioxane		20	17.0	ug/L	85	(70-130)	20	6.1
MBLK	Dioxane			<1	ug/L				
MRLLW	Dioxane		0.07	0.0540	ug/L	77	(50-150)		
MS1_201404230735	Dioxane	ND	0.07	0.0520	ug/L	74	(50-150)		
MSD1_201404230735	Dioxane	ND	0.07	0.0460	ug/L	66	(50-150)	20	12
LCS1	Dioxane-d8 (S)			79.8	%	80	(70-130)		
LCS2	Dioxane-d8 (S)			84.4	%	84	(70-130)		
MBLK	Dioxane-d8 (S)			81.7	%	82	(70-130)		
MRLLW	Dioxane-d8 (S)			80.7	%	81	(70-130)		
MS1_201404230735	Dioxane-d8 (S)			81.0	%	81	(70-130)		
MSD1_201404230735	Dioxane-d8 (S)			83.3	%	83	(70-130)		

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

750 Royal Oaks Drive, Suite 100
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1 800 566 LABS (1 800 566 5227)

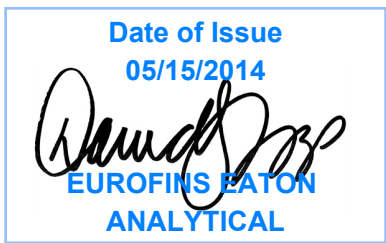


AT-1807

Laboratory Report

for

Tidewater, Inc.
Environmental Restoration and Infrastructure
4800 Oak Grove Drive
M/S 180-801
Pasadena, 91109
Attention: David Conner



DST: David S Tripp
Project Manager

Report: 479398
Project: TIDEWATER
Group: 2014 ANNUAL - NASA
PO#: Monitoring Wells

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.

* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.

* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.

* Test results relate only to the sample(s) tested.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Mississippi	Certified
Alaska	CA00006	Montana	Cert 0035
Arizona	AZ0778	Nebraska	Certified
Arkansas	Certified	Nevada	CA00006-2012-1
California-Monrovia-ELAP	2813	New Hampshire *	2959
California-Colton- ELAP	2812	New Jersey *	CA 008
California-Folsom- ELAP	2820	New Mexico	Certified
Colorado	Certified	New York *	11320
Connecticut	PH-0107	North Carolina	06701
Delaware	CA 006	North Dakota	R-009
Florida *	E871024	Oregon (Primary AB) *	ORELAP 4034
Georgia	947	Pennsylvania *	68-565
Guam	13-004r	Rhode Island	LAO00326
Hawaii	Certified	South Carolina	87016
Idaho	Certified	South Dakota	Certified
Illinois *	200033	Tennessee	TN02839
Indiana	C-CA-01	Texas *	T104704230-14-6
Kansas *	E-10268	Utah *	CA000062014-6
Kentucky	90107	Vermont	VT0114
Louisiana *	LA140009	Virginia *	00210
Maine	CA0006	Washington	C838
Maryland	224	West Virginia	9943 C
Commonwealth of Northern Marianas Is.	MP0004	Wisconsin	998316660
Massachusetts	M-CA006	Wyoming	8TMS-L
Michigan	9906	EPA Region 5	Certified
Los Angeles County Sanitation Districts	10264		

* NELAP/TNI Recognized Accreditation Bodies

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ACLASS.
Refer to Certificate and scope of accreditation (AT 1807) found at: <http://www.eatonanalytical.com>

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
1,4-Dioxane	EPA 522	x	x	
2,3,7,8-TCDD	Modified EPA 1613B	x	x	
Acrylamide	In House Method	x	x	
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H (18th)		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x	x	
Asbestos	EPA 100.2	x		
Bicarbonate Alkalinity as HCO3	SM 2330B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method	x	x	
Carbamates	EPA 531.2	x	x	
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x	x	
COD	EPA 410.4 / SM 5220D			x
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x	x	
Chlorinated Acids	EPA 555	x	x	
Chlorine Dioxide	SM 4500-CLO2 D	x	x	
Chlorine -Total/Free/ Combined Residual	SM 4500-CI G	x	x	x
Conductivity	EPA 120.1			x
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x	x	
Cyanide, Amenable	SM 4500-CN G	x		x
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method	x	x	
Diquat and Paraquat	EPA 549.2	x	x	
DBP/HAA	SM 6251B	x	x	
Dissolved Oxygen	SM 4500-O G		x	x
E. Coli (MTF/EC+MUG)		x		
E. Coli	CFR 141.21(f)(6)(i)		x	x
E. Coli	SM 9223			x
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x	x	
E. Coli (Enumeration)	SM 9223B	x	x	
EDB/DCBP	EPA 504.1	x		
EDB/DCBP and DBP	EPA 551.1	x	x	
EDTA and NTA	In House Method	x	x	
Endothall	EPA 548.1	x	x	
Enterococci	SM 9230B	x		x
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221 C, E (MTF/EC)			x
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x	x	
Fecal Coliform with Chlorine Present	SM 9221E			x
Fecal Streptococci	SM 9230B	x		x
Fluoride	SM 4500-F C	x	x	x
Glyphosate	EPA 547	x	x	
Gross Alpha/Beta	EPA 900.0	x	x	x
HAAs/ Dalapon	EPA 552.3	x	x	
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method	x	x	
Heterotrophic Bacteria	SM 9215 B	x	x	
Hexavalent Chromium	EPA 218.6	x	x	x
Hexavalent Chromium	EPA 218.7	x	x	
Hexavalent Chromium	SM 3500-Cr B or C (20th)			x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
Hormones	EPA 539	x	x	
Hydroxide as OH Calc.	SM 2330B	x	x	
Kjeldahl Nitrogen	EPA 351.2			x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA	x	x	
NDMA	EPA 521	x	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x	x	
Ortho Phosphate	EPA 365.1	x	x	
Ortho Phosphate and Total Phosphorous	EPA 365.1/SM 4500-P E			x
Ortho Phosphorous	SM 4500P E	x	x	
Oxyhalides Disinfection Byproducts	EPA 317.0	x	x	
Perchlorate	EPA 331.0	x	x	
Perchlorate	EPA 314.0	x	x	
Perfluorinated Alkyl Acids	EPA 537	x	x	
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method	x	x	
Pseudomonas	IDEXX Pseudalert	x	x	
Radium-226	RA-226 GA	x	x	
Radium-228	RA-228 GA	x	x	
Radon-222	SM 7500RN	x	x	
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D			x
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4			x
Semi-VOC	EPA 525.2	x	x	
Semi-VOC	EPA 625	x	x	x
Silica	SM 4500-Si D	x	x	x
Silica	SM 4500-SiO2 C	x		x
Sulfide	SM 4500-S ⁻ D			x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x	x	
Total Coliform	SM 9221 A, B	x	x	
Total Coliform (Enumeration)	SM 9221 A, B, C	x	x	
Total Coliform / E. coli	Colisure	x	x	
Total Coliform	SM 9221B			x
Total Coliform with Chlorine Present	SM 9221B			x
Total Coliform / E.coli	SM 9223	x	x	
TOC	SM 5310C		x	x
TOC/DOC	SM 5310C	x	x	
TOX	SM 5320B			x
Total Phenols	EPA 420.1			x
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P F			x
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x		x
Uranium by ICP/MS	EPA 200.8	x	x	
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x	x	
VOC	EPA 624	x	x	x
VOC	EPA SW 846 8260	x	x	
VOC	In House Method	x	x	
Yeast and Mold	SM 9610	x	x	

Acknowledgement of Samples Received

Addr: Tidewater, Inc.
 Environmental Restoration and Infrastructure
 4800 Oak Grove Drive
 M/S 180-801
 Pasadena91109
 Attn: David Conner
 Phone: 619-726-7311

Client ID: JPL-CA
 Folder #: 479398
 Project: TIDEWATER
 Sample Group: 2014 ANNUAL - NASA Monitoring Wells
 Project Manager: David S Tripp
 Phone: (626) 386-1158
 PO #: 1213-000-05

The following samples were received from you on **April 30, 2014**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample Date
201405010029	MW-4-1	04/30/2014 1320
@DIOXANE @NDMA_SPE		

Test Description

- @DIOXANE -- 1,4-Dioxane
- @NDMA_SPE -- Nitrosamines by GCMS

Note: Sampler Please return this paper with your samples

Kit #: 89296
Created By: ADT
Deliver By: 04/17/2014
STG: Bottle Orders
Ice Type: W

Client ID: JPL-CA
Project Code: TIDEWATER Bottle Orders
Group Name: 2014 ANNUAL - NASA Monitoring Wells
PO#/JOB#: 1213-000-05

Ship Sample Kits to
Jet Propulsion Laboratory
20735 Belshaw Avenue
Carson, CA 90746

Attn: Robert Sunjara
Phone: 310-885-4455 x 115

Send Report to
Tidewater, Inc.
Environmental Restoration and
Infrastructure
4800 Oak Grove Drive
Pasadena, 91109

Attn: David Conner
Phone: 619-726-7311
Fax: 614-458-6641

Billing Address
Tidewater, Inc.
Environmental Restoration and
Infrastructure
4800 Oak Grove Drive
Pasadena, 91109

Attn: David Conner
Phone: 619-726-7311
Fax: 614-458-6641

# of Samples	Tests	Bottles - Qty for each sample, type & preservative if applicable	UN DOT #
7	@2378-TCDD_Dioxin	2 1L amber glass D1613_NO_PRESERVATIVE	
7	@8330EDD EMAX	2 1L amber glass 1ml thio (8%)	
7	@ANIONS48, Fluoride	1 125ml poly no preservative	
12	@DIOXANE ✓	3 125ml amber glass 6.25 Sulfite +125 mg Bisulfite	
7	@ML521_SPE8	3 500ml amber glass 40-50 mg Na Thiosulfate	
5	@NDMA_SPE ✓	3 500ml amber glass 40-50 mg Na Thiosulfate	
7	@PCBS	4 40ml amber glass vial 1drop thio (8%)	
7	@TCP-524	3 40ml amber glass vial TCP - 4drops of 1:1 HCL	UN1789
7	@TPH-DRO_LLI	1 4 oz glass, wide-mouth jar Diesel_no pres	
7	@TPH-GRO_LLI	1 4 oz glass, wide-mouth jar TPH Gas_no pres	
7	@VOASDWA	3 40ml amber glass vial 4drops 6N HCL (36%)	UN1789
7	@VOA-TBA	4 40ml amber glass vial TBA_4 drops 1:1 HCL	UN1789
7	Chlorate by IC	1 60mL poly 0.6mL 1% EDA solution	
7	Hexavalent Chromium (Dissolved)	1 125ml poly 1.25 ml NH4SO4/NH4OH buffer	

Comments

LABEL OUTSIDE OF COOLER WITH SITE NAME. INCLUDE WET ICE INSTRUCTIONS.

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Laboratory Hits
Report: 479398

Tidewater, Inc.
David Conner
Environmental Restoration and Infrastructure
4800 Oak Grove Drive
M/S 180-801
Pasadena, 91109

Samples Received on:
04/30/2014

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
----------	---------	-----------	--------	-------------	-------	-----

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 Fax: (626) 386-1101
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Laboratory Data
Report: 479398

Tidewater, Inc.
 David Conner
 Environmental Restoration and Infrastructure
 4800 Oak Grove Drive
 M/S 180-801
 Pasadena, 91109

Samples Received on:
 04/30/2014

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
<u>MW-4-1 (201405010029)</u>						Sampled on 04/30/2014 1320		
EPA 522 - 1,4-Dioxane								
5/5/2014	05/08/2014	19:26	768651 (EPA 522)	1,4-Dioxane	ND	ug/L	1	1
5/5/2014	05/08/2014	19:26	768651 (EPA 522)	Dioxane-d8	102	%		1
EPA 521 - Nitrosamines by GCMS								
5/6/2014	05/11/2014	12:51	768817 (EPA 521)	N-Nitroso-dimethylamine (NDMA)	ND	ng/L	2	1
5/6/2014	05/11/2014	12:51	768817 (EPA 521)	NDMA-D6	84	%		1

Rounding on totals after summation.
 (c) - indicates calculated results

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David Conner
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4800 Oak Grove Drive
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Pasadena, 91109

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1 800 566 LABS (1 800 566 5227)

Tidewater, Inc.

QC Ref # 768651 - 1,4-Dioxane

201405010029 MW-4-1

Analysis Date: 05/08/2014

Analyzed by: CRW

QC Ref # 768817 - Nitrosamines by GCMS

201405010029 MW-4-1

Analysis Date: 05/11/2014

Analyzed by: KDT

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Monrovia, California 91016-3629
Tel: (626) 386-1100
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Tidewater, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 768651 - 1,4-Dioxane by EPA 522						Analysis Date: 05/08/2014			
LCS1	Dioxane		20	19.3	ug/L	96	(70-130)		
LCS2	Dioxane		20	19.8	ug/L	99	(70-130)	20	2.6
MBLK	Dioxane			<1	ug/L				
MRLLW	Dioxane		0.07	0.0780	ug/L	111	(50-150)		
MS_201404290641	Dioxane	ND	20	20.3	ug/L	102	(70-130)		
MSD_201404290641	Dioxane	ND	20	20.6	ug/L	103	(30-130)	20	1.5
LCS1	Dioxane-d8 (S)			98.7	%	99	(70-130)		
LCS2	Dioxane-d8 (S)			97.0	%	97	(70-130)		
MBLK	Dioxane-d8 (S)			96.6	%	97	(70-130)		
MRLLW	Dioxane-d8 (S)			96.6	%	97	(70-130)		
MS_201404290641	Dioxane-d8 (S)			101	%	101	(70-130)		
MSD_201404290641	Dioxane-d8 (S)			101	%	101	(70-130)		
QC Ref# 768817 - Nitrosamines by GCMS by EPA 521						Analysis Date: 05/10/2014			
MBLK	NDMA-D6 (S)			73.2	%	73	(70-130)		
MRL_CHK	NDMA-D6 (S)			77.9	%	78	(70-130)		
MBLK	N-Nitroso dimethylamine (NDMA)			<2	ng/L				
MRL_CHK	N-Nitroso dimethylamine (NDMA)		2.0	1.77	ng/L	88	(50-150)		
QC Ref# 769352 - Nitrosamines by GCMS by EPA 521						Analysis Date: 05/10/2014			
LCS3	NDMA-D6 (S)			91.8	%	92	(70-130)		
MS2_201405010745	NDMA-D6 (S)			78.6	%	79	(70-130)		
MSD2_201405010745	NDMA-D6 (S)			77.1	%	77	(70-130)		
LCS3	N-Nitroso dimethylamine (NDMA)		80	65.5	ng/L	82	(70-130)		
MS2_201405010745	N-Nitroso dimethylamine (NDMA)	ND	40	32.7	ng/L	82	(70-130)		
MSD2_201405010745	N-Nitroso dimethylamine (NDMA)	ND	40	31.3	ng/l	78	(70-130)	30	4.4

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

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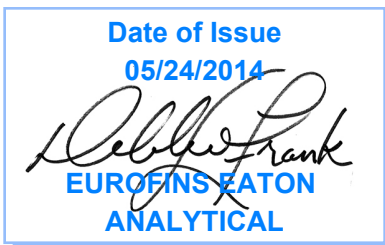


AT-1807

Laboratory Report

for

Tidewater, Inc.
Environmental Restoration and Infrastructure
4800 Oak Grove Drive
M/S 180-801
Pasadena, 91109
Attention: David Conner



DST: David S Tripp
Project Manager

Report: 479634
Project: TIDEWATER
Group: 2014 ANNUAL - NASA
PO#: Monitoring Wells

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.

* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.

* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.

* Test results relate only to the sample(s) tested.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Mississippi	Certified
Alaska	CA00006	Montana	Cert 0035
Arizona	AZ0778	Nebraska	Certified
Arkansas	Certified	Nevada	CA00006-2012-1
California-Monrovia-ELAP	2813	New Hampshire *	2959
California-Colton- ELAP	2812	New Jersey *	CA 008
California-Folsom- ELAP	2820	New Mexico	Certified
Colorado	Certified	New York *	11320
Connecticut	PH-0107	North Carolina	06701
Delaware	CA 006	North Dakota	R-009
Florida *	E871024	Oregon (Primary AB) *	ORELAP 4034
Georgia	947	Pennsylvania *	68-565
Guam	13-004r	Rhode Island	LAO00326
Hawaii	Certified	South Carolina	87016
Idaho	Certified	South Dakota	Certified
Illinois *	200033	Tennessee	TN02839
Indiana	C-CA-01	Texas *	T104704230-14-6
Kansas *	E-10268	Utah *	CA000062014-6
Kentucky	90107	Vermont	VT0114
Louisiana *	LA140009	Virginia *	00210
Maine	CA0006	Washington	C838
Maryland	224	West Virginia	9943 C
Commonwealth of Northern Marianas Is.	MP0004	Wisconsin	998316660
Massachusetts	M-CA006	Wyoming	8TMS-L
Michigan	9906	EPA Region 5	Certified
Los Angeles County Sanitation Districts	10264		

* NELAP/TNI Recognized Accreditation Bodies

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ACLASS.
Refer to Certificate and scope of accreditation (AT 1807) found at: <http://www.eatonanalytical.com>

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
1,4-Dioxane	EPA 522	x	x	
2,3,7,8-TCDD	Modified EPA 1613B	x	x	
Acrylamide	In House Method	x	x	
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H (18th)		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x	x	
Asbestos	EPA 100.2	x		
Bicarbonate Alkalinity as HCO3	SM 2330B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method	x	x	
Carbamates	EPA 531.2	x	x	
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x	x	
COD	EPA 410.4 / SM 5220D			x
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x	x	
Chlorinated Acids	EPA 555	x	x	
Chlorine Dioxide	SM 4500-CLO2 D	x	x	
Chlorine -Total/Free/ Combined Residual	SM 4500-CI G	x	x	x
Conductivity	EPA 120.1			x
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x	x	
Cyanide, Amenable	SM 4500-CN G	x		x
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method	x	x	
Diquat and Paraquat	EPA 549.2	x	x	
DBP/HAA	SM 6251B	x	x	
Dissolved Oxygen	SM 4500-O G		x	x
E. Coli (MTF/EC+MUG)		x		
E. Coli	CFR 141.21(f)(6)(i)		x	x
E. Coli	SM 9223			x
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x	x	
E. Coli (Enumeration)	SM 9223B	x	x	
EDB/DCBP	EPA 504.1	x		
EDB/DCBP and DBP	EPA 551.1	x	x	
EDTA and NTA	In House Method	x	x	
Endothall	EPA 548.1	x	x	
Enterococci	SM 9230B	x		x
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221 C, E (MTF/EC)			x
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x	x	
Fecal Coliform with Chlorine Present	SM 9221E			x
Fecal Streptococci	SM 9230B	x		x
Fluoride	SM 4500-F C	x	x	x
Glyphosate	EPA 547	x	x	
Gross Alpha/Beta	EPA 900.0	x	x	x
HAAs/ Dalapon	EPA 552.3	x	x	
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method	x	x	
Heterotrophic Bacteria	SM 9215 B	x	x	
Hexavalent Chromium	EPA 218.6	x	x	x
Hexavalent Chromium	EPA 218.7	x	x	
Hexavalent Chromium	SM 3500-Cr B or C (20th)			x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
Hormones	EPA 539	x	x	
Hydroxide as OH Calc.	SM 2330B	x	x	
Kjeldahl Nitrogen	EPA 351.2			x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA	x	x	
NDMA	EPA 521	x	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x	x	
Ortho Phosphate	EPA 365.1	x	x	
Ortho Phosphate and Total Phosphorous	EPA 365.1/SM 4500-P E			x
Ortho Phosphorous	SM 4500P E	x	x	
Oxyhalides Disinfection Byproducts	EPA 317.0	x	x	
Perchlorate	EPA 331.0	x	x	
Perchlorate	EPA 314.0	x	x	
Perfluorinated Alkyl Acids	EPA 537	x	x	
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method	x	x	
Pseudomonas	IDEXX Pseudalert	x	x	
Radium-226	RA-226 GA	x	x	
Radium-228	RA-228 GA	x	x	
Radon-222	SM 7500RN	x	x	
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D			x
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4			x
Semi-VOC	EPA 525.2	x	x	
Semi-VOC	EPA 625	x	x	x
Silica	SM 4500-Si D	x	x	x
Silica	SM 4500-SiO2 C	x		x
Sulfide	SM 4500-S ⁻ D			x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x	x	
Total Coliform	SM 9221 A, B	x	x	
Total Coliform (Enumeration)	SM 9221 A, B, C	x	x	
Total Coliform / E. coli	Colisure	x	x	
Total Coliform	SM 9221B			x
Total Coliform with Chlorine Present	SM 9221B			x
Total Coliform / E.coli	SM 9223	x	x	
TOC	SM 5310C		x	x
TOC/DOC	SM 5310C	x	x	
TOX	SM 5320B			x
Total Phenols	EPA 420.1			x
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P F			x
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x		x
Uranium by ICP/MS	EPA 200.8	x	x	
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x	x	
VOC	EPA 624	x	x	x
VOC	EPA SW 846 8260	x	x	
VOC	In House Method	x	x	
Yeast and Mold	SM 9610	x	x	

Acknowledgement of Samples Received

Addr: **Tidewater, Inc.**
 Environmental Restoration and Infrastructure
 4800 Oak Grove Drive
 M/S 180-801
 Pasadena91109
 Attn: David Conner
 Phone: 619-726-7311

Client ID: JPL-CA
 Folder #: 479634
 Project: TIDEWATER
 Sample Group: 2014 ANNUAL - NASA Monitoring Wells
 Project Manager: David S Tripp
 Phone: (626) 386-1158
 PO #: 1213-000-05

The following samples were received from you on **May 01, 2014**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample Date
201405010736	MW-16	05/01/2014 1055
	@DIOXANE @NDMA_SPE	

Test Description

@DIOXANE -- 1,4-Dioxane
 @NDMA_SPE -- Nitrosamines by GCMS

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Tidewater, Inc.
David Conner
Environmental Restoration and Infrastructure
4800 Oak Grove Drive
M/S 180-801
Pasadena, 91109

Samples Received on:
05/01/2014

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
----------	---------	-----------	--------	-------------	-------	-----

750 Royal Oaks Drive, Suite 100
 Monrovia, California 91016-3629
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Laboratory Data
 Report: 479634

Tidewater, Inc.
 David Conner
 Environmental Restoration and Infrastructure
 4800 Oak Grove Drive
 M/S 180-801
 Pasadena, 91109

Samples Received on:
 05/01/2014

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
MW-16 (201405010736)						Sampled on 05/01/2014 1055		
EPA 522 - 1,4-Dioxane								
5/5/2014	05/08/2014	21:26	768651 (EPA 522)	1,4-Dioxane	ND	ug/L	1	1
5/5/2014	05/08/2014	21:26	768651 (EPA 522)	Dioxane-d8	102	%		1
EPA 521 - Nitrosamines by GCMS								
5/9/2014	05/16/2014	00:38	770286 (EPA 521)	N-Nitroso-dimethylamine (NDMA)	ND (s6)	ng/L	2	1
5/9/2014	05/16/2014	00:38	770286 (EPA 521)	NDMA-D6	57	%		1

Rounding on totals after summation.
 (c) - indicates calculated results

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Tidewater, Inc.
David Conner
Environmental Restoration and Infrastructure
4800 Oak Grove Drive
M/S 180-801
Pasadena, 91109

Folder Comments

(521-NDMA)

S6 - Low surrogate result. ND data may be low biased at 2 ng/L. Surrogate does appear to trend low for this site per 2013 report from alternate lab for this site, ALS#K1304120, surrogate recovery 72%, on the low end. Client cannot re-sample. Per David Connor, report the qualified data for review with the regulator, 052014. DEB 052014

Flags Legend:

S6 - Surrogate recovery was below laboratory and method acceptance limits. Re-extraction and/or reanalysis confirms low recovery caused by matrix effect.

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Tidewater, Inc.

QC Ref # 768651 - 1,4-Dioxane

201405010736 MW-16

Analysis Date: 05/08/2014

Analyzed by: CRW

QC Ref # 770286 - Nitrosamines by GCMS

201405010736 MW-16

201405010736 MW-16

Analysis Date: 05/16/2014

Analyzed by: KDT

Analyzed by: KDT

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Tidewater, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 768651 - 1,4-Dioxane by EPA 522						Analysis Date: 05/08/2014			
LCS1	Dioxane		20	19.3	ug/L	96	(70-130)		
LCS2	Dioxane		20	19.8	ug/L	99	(70-130)	20	2.6
MBLK	Dioxane			<1	ug/L				
MRLLW	Dioxane		0.07	0.0780	ug/L	111	(50-150)		
MS_201404290641	Dioxane	ND	20	20.3	ug/L	102	(70-130)		
MSD_201404290641	Dioxane	ND	20	20.6	ug/L	103	(30-130)	20	1.5
LCS1	Dioxane-d8 (S)			98.7	%	99	(70-130)		
LCS2	Dioxane-d8 (S)			97.0	%	97	(70-130)		
MBLK	Dioxane-d8 (S)			96.6	%	97	(70-130)		
MRLLW	Dioxane-d8 (S)			96.6	%	97	(70-130)		
MS_201404290641	Dioxane-d8 (S)			101	%	101	(70-130)		
MSD_201404290641	Dioxane-d8 (S)			101	%	101	(70-130)		
QC Ref# 770286 - Nitrosamines by GCMS by EPA 521						Analysis Date: 05/15/2014			
LCS3	NDMA-D6 (S)			93.9	%	94	(70-130)		
MBLK	NDMA-D6 (S)			86.6	%	87	(70-130)		
MRL_CHK	NDMA-D6 (S)			82.2	%	82	(70-130)		
MS2_201405010737	NDMA-D6 (S)			87.2	%	87	(70-130)		
MSD2_201405010737	NDMA-D6 (S)			75.3	%	75	(70-130)		
LCS3	N-Nitroso dimethylamine (NDMA)		80	61.3	ng/L	77	(70-130)		
MBLK	N-Nitroso dimethylamine (NDMA)			<2	ng/L				
MRL_CHK	N-Nitroso dimethylamine (NDMA)		2.0	1.05	ng/L	52	(50-150)		
MS2_201405010737	N-Nitroso dimethylamine (NDMA)	ND	40	32.9	ng/L	82	(70-130)		
MSD2_201405010737	N-Nitroso dimethylamine (NDMA)	ND	40	31.4	ng/l	78	(70-130)	30	4.7

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.

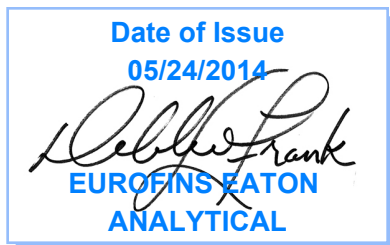
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Laboratory Report

for

Tidewater, Inc.
Environmental Restoration and Infrastructure
4800 Oak Grove Drive
M/S 180-801
Pasadena, 91109
Attention: David Conner



DST: David S Tripp
Project Manager

Report: 479635
Project: TIDEWATER
Group: 2014 ANNUAL - NASA
PO#: Monitoring Wells

* Accredited in accordance with TNI 2009 and ISO/IEC 17025:2005.

* Laboratory certifies that the test results meet all **TNI 2009 and ISO/IEC 17025:2005** requirements unless noted under the individual analysis.

* Following the cover page are State Certification List, ISO 17025 Accredited Method List, Acknowledgement of Samples Received, Comments, Hits Report, Data Report, QC Summary, QC Report and Regulatory Forms, as applicable.

* Test results relate only to the sample(s) tested.

STATE CERTIFICATION LIST

State	Certification Number	State	Certification Number
Alabama	41060	Mississippi	Certified
Alaska	CA00006	Montana	Cert 0035
Arizona	AZ0778	Nebraska	Certified
Arkansas	Certified	Nevada	CA00006-2012-1
California-Monrovia-ELAP	2813	New Hampshire *	2959
California-Colton- ELAP	2812	New Jersey *	CA 008
California-Folsom- ELAP	2820	New Mexico	Certified
Colorado	Certified	New York *	11320
Connecticut	PH-0107	North Carolina	06701
Delaware	CA 006	North Dakota	R-009
Florida *	E871024	Oregon (Primary AB) *	ORELAP 4034
Georgia	947	Pennsylvania *	68-565
Guam	13-004r	Rhode Island	LAO00326
Hawaii	Certified	South Carolina	87016
Idaho	Certified	South Dakota	Certified
Illinois *	200033	Tennessee	TN02839
Indiana	C-CA-01	Texas *	T104704230-14-6
Kansas *	E-10268	Utah *	CA000062014-6
Kentucky	90107	Vermont	VT0114
Louisiana *	LA140009	Virginia *	00210
Maine	CA0006	Washington	C838
Maryland	224	West Virginia	9943 C
Commonwealth of Northern Marianas Is.	MP0004	Wisconsin	998316660
Massachusetts	M-CA006	Wyoming	8TMS-L
Michigan	9906	EPA Region 5	Certified
Los Angeles County Sanitation Districts	10264		

* NELAP/TNI Recognized Accreditation Bodies

The tests listed below are accredited and meet the requirements of ISO 17025 as verified by the ANSI-ASQ National Accreditation Board/ACLASS.
Refer to Certificate and scope of accreditation (AT 1807) found at: <http://www.eatonanalytical.com>

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
1,4-Dioxane	EPA 522	x	x	
2,3,7,8-TCDD	Modified EPA 1613B	x	x	
Acrylamide	In House Method	x	x	
Alkalinity	SM 2320B	x	x	x
Ammonia	EPA 350.1		x	x
Ammonia	SM 4500-NH3 H (18th)		x	x
Anions and DBPs by IC	EPA 300.0	x	x	x
Anions and DBPs by IC	EPA 300.1	x	x	
Asbestos	EPA 100.2	x		
Bicarbonate Alkalinity as HCO3	SM 2330B	x	x	x
BOD / CBOD	SM 5210B		x	x
Bromate	In House Method	x	x	
Carbamates	EPA 531.2	x	x	
Carbonate as CO3	SM 2330B	x	x	x
Carbonyls	EPA 556	x	x	
COD	EPA 410.4 / SM 5220D			x
Chloramines	SM 4500-CL G	x	x	x
Chlorinated Acids	EPA 515.4	x	x	
Chlorinated Acids	EPA 555	x	x	
Chlorine Dioxide	SM 4500-CLO2 D	x	x	
Chlorine -Total/Free/ Combined Residual	SM 4500-CI G	x	x	x
Conductivity	EPA 120.1			x
Conductivity	SM 2510B	x	x	x
Corrosivity (Langelier Index)	SM 2330B	x	x	
Cyanide, Amenable	SM 4500-CN G	x		x
Cyanide, Free	SM 4500CN F	x	x	x
Cyanide, Total	EPA 335.4	x	x	x
Cyanogen Chloride (screen)	In House Method	x	x	
Diquat and Paraquat	EPA 549.2	x	x	
DBP/HAA	SM 6251B	x	x	
Dissolved Oxygen	SM 4500-O G		x	x
E. Coli (MTF/EC+MUG)		x		
E. Coli	CFR 141.21(f)(6)(i)		x	x
E. Coli	SM 9223			x
E. Coli (Enumeration)	SM 9221B.1/ SM 9221F	x	x	
E. Coli (Enumeration)	SM 9223B	x	x	
EDB/DCBP	EPA 504.1	x		
EDB/DCBP and DBP	EPA 551.1	x	x	
EDTA and NTA	In House Method	x	x	
Endothall	EPA 548.1	x	x	
Enterococci	SM 9230B	x		x
Fecal Coliform	SM 9221 E (MTF/EC)	x		
Fecal Coliform	SM 9221 C, E (MTF/EC)			x
Fecal Coliform (Enumeration)	SM 9221E (MTF/EC)	x	x	
Fecal Coliform with Chlorine Present	SM 9221E			x
Fecal Streptococci	SM 9230B	x		x
Fluoride	SM 4500-F C	x	x	x
Glyphosate	EPA 547	x	x	
Gross Alpha/Beta	EPA 900.0	x	x	x
HAAs/ Dalapon	EPA 552.3	x	x	
Hardness	SM 2340B	x	x	x
Heterotrophic Bacteria	In House Method	x	x	
Heterotrophic Bacteria	SM 9215 B	x	x	
Hexavalent Chromium	EPA 218.6	x	x	x
Hexavalent Chromium	EPA 218.7	x	x	
Hexavalent Chromium	SM 3500-Cr B or C (20th)			x

SPECIFIC TESTS	METHOD OR TECHNIQUE USED	Drinking Water	Food & Beverage	Waste Water
Hormones	EPA 539	x	x	
Hydroxide as OH Calc.	SM 2330B	x	x	
Kjeldahl Nitrogen	EPA 351.2			x
Mercury	EPA 245.1	x	x	x
Metals	EPA 200.7 / 200.8	x	x	x
Microcystin LR	ELISA	x	x	
NDMA	EPA 521	x	x	
Nitrate/Nitrite Nitrogen	EPA 353.2	x	x	x
OCL, Pesticides/PCB	EPA 505	x	x	
Ortho Phosphate	EPA 365.1	x	x	
Ortho Phosphate and Total Phosphorous	EPA 365.1/SM 4500-P E			x
Ortho Phosphorous	SM 4500P E	x	x	
Oxyhalides Disinfection Byproducts	EPA 317.0	x	x	
Perchlorate	EPA 331.0	x	x	
Perchlorate	EPA 314.0	x	x	
Perfluorinated Alkyl Acids	EPA 537	x	x	
pH	EPA 150.1	x		
pH	SM 4500-H+B	x	x	x
Phenylurea Pesticides/ Herbicides	In House Method	x	x	
Pseudomonas	IDEXX Pseudalert	x	x	
Radium-226	RA-226 GA	x	x	
Radium-228	RA-228 GA	x	x	
Radon-222	SM 7500RN	x	x	
Residue, Filterable	SM 2540C	x	x	x
Residue, Non-filterable	SM 2540D			x
Residue, Total	SM 2540B		x	x
Residue, Volatile	EPA 160.4			x
Semi-VOC	EPA 525.2	x	x	
Semi-VOC	EPA 625	x	x	x
Silica	SM 4500-Si D	x	x	x
Silica	SM 4500-SiO2 C	x		x
Sulfide	SM 4500-S ⁻ D			x
Surfactants	SM 5540C	x	x	x
Taste and Odor Analytes	SM 6040E	x	x	
Total Coliform	SM 9221 A, B	x	x	
Total Coliform (Enumeration)	SM 9221 A, B, C	x	x	
Total Coliform / E. coli	Colisure	x	x	
Total Coliform	SM 9221B			x
Total Coliform with Chlorine Present	SM 9221B			x
Total Coliform / E.coli	SM 9223	x	x	
TOC	SM 5310C		x	x
TOC/DOC	SM 5310C	x	x	
TOX	SM 5320B			x
Total Phenols	EPA 420.1			x
Total Phenols	EPA 420.4	x	x	x
Total Phosphorous	SM 4500 P F			x
Turbidity	EPA 180.1	x	x	x
Turbidity	SM 2130B	x		x
Uranium by ICP/MS	EPA 200.8	x	x	
UV 254	SM 5910B	x		
VOC	EPA 524.2/EPA 524.3	x	x	
VOC	EPA 624	x	x	x
VOC	EPA SW 846 8260	x	x	
VOC	In House Method	x	x	
Yeast and Mold	SM 9610	x	x	

Acknowledgement of Samples Received

Addr: **Tidewater, Inc.**
 Environmental Restoration and Infrastructure
 4800 Oak Grove Drive
 M/S 180-801
 Pasadena91109
 Attn: David Conner
 Phone: 619-726-7311

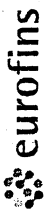
Client ID: JPL-CA
 Folder #: 479635
 Project: TIDEWATER
 Sample Group: 2014 ANNUAL - NASA Monitoring Wells
 Project Manager: David S Tripp
 Phone: (626) 386-1158
 PO #: 1213-000-05

The following samples were received from you on **May 01, 2014**. They have been scheduled for the tests listed below each sample. If this information is incorrect, please contact your service representative. Thank you for using Eurofins Eaton Analytical.

Sample #	Sample ID	Sample Date
201405010737	MW-13	05/01/2014 0812
	@DIOXANE @NDMA_SPE	

Test Description

@DIOXANE -- 1,4-Dioxane
 @NDMA_SPE -- Nitrosamines by GCMS



Eaton Analytical
formerly MWH Laboratories

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
(626) 386-1100 FAX (626) 386-1101

Kit Order for Jet Propulsion Laboratory

David S Tripp is your Eurofins Eaton Analytical Project Manager

Note: Sampler Please return this paper with your samples

Kit #: 89296
Created By: ADT
Deliver By: 04/17/2014
STG: Bottle Orders
Ice Type: W

Client ID: JPL-CA
Project Code: TIDEWATER Bottle Orders
Group Name: 2014 ANNUAL - NASA Monitoring Wells
PO#/JOB#: 1213-000-05

Ship Sample Kits to
Jet Propulsion Laboratory
20735 Belshaw Avenue
Carson, CA 90746

Attn: Robert Sunjara
Phone: 310-885-4455 x 115

Send Report to
Tidewater, Inc.
Environmental Restoration and
Infrastructure
4800 Oak Grove Drive
Pasadena, 91109

Attn: David Conner
Phone: 619-726-7311
Fax: 614-458-6641

Billing Address
Tidewater, Inc.
Environmental Restoration and
Infrastructure
4800 Oak Grove Drive
Pasadena, 91109

Attn: David Conner
Phone: 619-726-7311
Fax: 614-458-6641

# of Samples Tests	Bottles - Qty for each sample, type & preservative if a	UN DOT #
7	@2378-TCDD_Dioxin 2 1L amber glass D1613_NO_PRESERVATIVE	
7	@8330EDD EMAX 2 1L amber glass 1ml thio (8%)	
7	@ANIONS48, Fluoride 1 125ml poly no preservative	
12	@DIOXANE 3 125ml amber glass 6.25 Sulfite +125 mg Bisulfite	
7	@ML521_SPE8 3 500ml amber glass 40-50 mg Na Thiosulfate	
5	@NDMA_SPE 3 500ml amber glass 40-50 mg Na Thiosulfate	
7	@PCBS 4 40ml amber glass vial 1drop thio (8%)	UN1789
7	@TCP-524 3 40ml amber glass vial TCP - 4drops of 1:1 HCL	
7	@TPH-DRO_LLI 1 4 oz glass, wide-mouth jar Diesel_no pres	
7	@TPH-GRO_LLI 1 4 oz glass, wide-mouth jar TPH Gas_no pres	
7	@VOASDWA 3 40ml amber glass vial 4drops 6N HCL (36%)	UN1789
7	@VOA-TBA 4 40ml amber glass vial TBA_4 drops 1:1 HCL	UN1789
7	Chlorate by IC 1 60mL poly 0.6mL 1% EDA solution	
7	Hexavalent Chromium (Dissolved) 1 125ml poly 1.25 ml NH4SO4/NH4OH buffer	

Comments

LABEL OUTSIDE OF COOLER WITH SITE NAME. INCLUDE WET ICE INSTRUCTIONS.

Code Status Date Shipped Via Tracking # # of Containers Prepared By

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Tidewater, Inc.
David Conner
Environmental Restoration and Infrastructure
4800 Oak Grove Drive
M/S 180-801
Pasadena, 91109

Samples Received on:
05/01/2014

Analyzed	Analyte	Sample ID	Result	Federal MCL	Units	MRL
05/08/2014 21:50	1,4-Dioxane	<u>MW-13</u>	1.0		ug/L	1

750 Royal Oaks Drive, Suite 100
 Monrovia, California 91016-3629
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 Fax: (626) 386-1101
 1 800 566 LABS (1 800 566 5227)

**Laboratory Data
 Report: 479635**

Tidewater, Inc.
 David Conner
 Environmental Restoration and Infrastructure
 4800 Oak Grove Drive
 M/S 180-801
 Pasadena, 91109

Samples Received on:
 05/01/2014

Prepared	Analyzed	QC Ref #	Method	Analyte	Result	Units	MRL	Dilution
MW-13 (201405010737)						Sampled on 05/01/2014 0812		
EPA 522 - 1,4-Dioxane								
5/5/2014	05/08/2014	21:50 768651	(EPA 522)	1,4-Dioxane	1.0	ug/L	1	1
5/5/2014	05/08/2014	21:50 768651	(EPA 522)	Dioxane-d8	103	%		1
EPA 521 - Nitrosamines by GCMS								
5/9/2014	05/16/2014	01:34 770286	(EPA 521)	N-Nitroso-dimethylamine (NDMA)	ND	ng/L	2	1
5/9/2014	05/16/2014	01:34 770286	(EPA 521)	NDMA-D6	88	%		1

Rounding on totals after summation.
 (c) - indicates calculated results

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Tidewater, Inc.

QC Ref # 768651 - 1,4-Dioxane

201405010737 MW-13

Analysis Date: 05/08/2014

Analyzed by: CRW

QC Ref # 770286 - Nitrosamines by GCMS

201405010737 MW-13

Analysis Date: 05/16/2014

Analyzed by: KDT

750 Royal Oaks Drive, Suite 100
Monrovia, California 91016-3629
Tel: (626) 386-1100
Fax: (626) 386-1101
1 800 566 LABS (1 800 566 5227)

Tidewater, Inc.

QC Type	Analyte	Native	Spiked	Recovered	Units	Yield (%)	Limits (%)	RPDLimit (%)	RPD%
QC Ref# 768651 - 1,4-Dioxane by EPA 522						Analysis Date: 05/08/2014			
LCS1	Dioxane		20	19.3	ug/L	96	(70-130)		
LCS2	Dioxane		20	19.8	ug/L	99	(70-130)	20	2.6
MBLK	Dioxane			<1	ug/L				
MRLLW	Dioxane		0.07	0.0780	ug/L	111	(50-150)		
MS_201404290641	Dioxane	ND	20	20.3	ug/L	102	(70-130)		
MSD_201404290641	Dioxane	ND	20	20.6	ug/L	103	(30-130)	20	1.5
LCS1	Dioxane-d8 (S)			98.7	%	99	(70-130)		
LCS2	Dioxane-d8 (S)			97.0	%	97	(70-130)		
MBLK	Dioxane-d8 (S)			96.6	%	97	(70-130)		
MRLLW	Dioxane-d8 (S)			96.6	%	97	(70-130)		
MS_201404290641	Dioxane-d8 (S)			101	%	101	(70-130)		
MSD_201404290641	Dioxane-d8 (S)			101	%	101	(70-130)		
QC Ref# 770286 - Nitrosamines by GCMS by EPA 521						Analysis Date: 05/15/2014			
LCS3	NDMA-D6 (S)			93.9	%	94	(70-130)		
MBLK	NDMA-D6 (S)			86.6	%	87	(70-130)		
MRL_CHK	NDMA-D6 (S)			82.2	%	82	(70-130)		
MS2_201405010737	NDMA-D6 (S)			87.2	%	87	(70-130)		
MSD2_201405010737	NDMA-D6 (S)			75.3	%	75	(70-130)		
LCS3	N-Nitroso dimethylamine (NDMA)		80	61.3	ng/L	77	(70-130)		
MBLK	N-Nitroso dimethylamine (NDMA)			<2	ng/L				
MRL_CHK	N-Nitroso dimethylamine (NDMA)		2.0	1.05	ng/L	52	(50-150)		
MS2_201405010737	N-Nitroso dimethylamine (NDMA)	ND	40	32.9	ng/L	82	(70-130)		
MSD2_201405010737	N-Nitroso dimethylamine (NDMA)	ND	40	31.4	ng/l	78	(70-130)	30	4.7

Spike recovery is already corrected for native results.

Spikes which exceed Limits and Method Blanks with positive results are highlighted by Underlining.

Criteria for MS and Dup are advisory only, batch control is based on LCS. Criteria for duplicates are advisory only, unless otherwise specified in the method.

RPD not calculated for LCS2 when different a concentration than LCS1 is used.

RPD not calculated for Duplicates when the result is not five times the MRL (Minimum Reporting Level).

(S) - Indicates surrogate compound.

(I) - Indicates internal standard compound.