

October 31, 2013

Charles Darling
Westfield Water Resources Department
28 Sackett Street
Westfield, MA 01085

RE: Project: UCMR3 Aug.
Pace Project No.: 35105302

Dear Charles Darling:

Enclosed are the analytical results for sample(s) received by the laboratory on August 20, 2013. The results relate only to the samples included in this report. Results reported herein conform to the most current TNI standards and the laboratory's Quality Assurance Manual, where applicable, unless otherwise noted in the body of the report.

If you have any questions concerning this report, please feel free to contact me.

Sincerely,



Jeff Baylor for
Ken Overstreet
ken.overstreet@pacelabs.com
Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: UCMR3 Aug.

Pace Project No.: 35105302

Ormond Beach Certification IDs

8 East Tower Circle, Ormond Beach, FL 32174
Alabama Certification #: 41320
Arizona Certification #: AZ0735
Colorado Certification: FL NELAC Reciprocity
Connecticut Certification #: PH-0216
Delaware Health and Social Services
Florida Certification #: E83079
Georgia Certification #: 955
Guam Certification: FL NELAC Reciprocity
Hawaii Certification: FL NELAC Reciprocity
Illinois Certification #: 200068
Indiana Certification: FL NELAC Reciprocity
Kansas Certification #: E-10383
Kentucky Certification #: 90050
Louisiana Certification #: FL NELAC Reciprocity
Louisiana Environmental Certificate #: 05007
Maine Certification #: FL01264
Maryland Department of the Environment
Massachusetts Certification #: M-FL1264
Michigan Certification #: 9911
Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236
Montana Certification #: Cert 0074
Nevada Certification: FL NELAC Reciprocity
New Hampshire Certification #: 2958
New Jersey Certification #: FL765
New York Certification #: 11608
North Carolina Environmental Certificate #: 667
North Carolina Certification #: 12710
Pennsylvania Certification #: 68-00547
Puerto Rico Certification #: FL01264
South Carolina Department of Health and Environmental Control
Tennessee Certification #: TN02974
Texas Certification: FL NELAC Reciprocity
US Virgin Islands Certification: FL NELAC Reciprocity
Virginia Environmental Certification #: 460165
Washington Certification #: C955
West Virginia Certification #: 9962C
Wisconsin Certification #: 399079670
Wyoming (EPA Region 8): FL NELAC Reciprocity

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: UCMR3 Aug.

Pace Project No.: 35105302

Lab ID	Sample ID	Matrix	Date Collected	Date Received
35105302001	EPTDS from GP Well #1	Drinking Water	08/19/13 10:30	08/20/13 09:15
35105302002	EPTDS from GP Well #1 Blank	Drinking Water	08/19/13 10:30	08/20/13 09:15
35105302003	DSMRT For GP Well #1	Drinking Water	08/19/13 12:00	08/20/13 09:15
35105302004	DSMRT For GP Well #1 Blank	Drinking Water	08/19/13 12:00	08/20/13 09:15
35105302005	EPTDS from GP Well #2	Drinking Water	08/19/13 10:00	08/20/13 09:15
35105302006	EPTDS from GP Well #2 Blank	Drinking Water	08/19/13 10:00	08/20/13 09:15
35105302007	DSMRT for GP Well #2	Drinking Water	08/19/13 10:50	08/20/13 09:15
35105302008	DSMRT for GP Well #2 Blank	Drinking Water	08/19/13 10:50	08/20/13 09:15
35105302009	EPTDS From Well #7	Drinking Water	08/19/13 11:20	08/20/13 09:15
35105302010	EPTDS From Well #7 Blank	Drinking Water	08/19/13 11:20	08/20/13 09:15
35105302011	DSMRT for Well #7	Drinking Water	08/19/13 12:20	08/20/13 09:15
35105302012	DSMRT for Well #7 Blank	Drinking Water	08/19/13 12:20	08/20/13 09:15
35105302013	EPTDS From Shaken GAC WTP	Drinking Water	08/19/13 10:00	08/20/13 09:15
35105302014	EPTDS From Shaken GAC WTP Blan	Drinking Water	08/19/13 10:00	08/20/13 09:15
35105302015	DSMRT From Shaken Road GAC WTP	Drinking Water	08/19/13 09:15	08/20/13 09:15
35105302016	DSMRT From Shaken Road GAC Bla	Drinking Water	08/19/13 09:15	08/20/13 09:15
35105302017	EPTDS From Well #6	Drinking Water	08/19/13 08:30	08/20/13 09:15
35105302018	EPTDS From Well #6 Blank	Drinking Water	08/19/13 08:30	08/20/13 09:15
35105302019	DSMRT for Well #6	Drinking Water	08/19/13 09:15	08/20/13 09:15
35105302020	DSMRT for Well #6 Blank	Drinking Water	08/19/13 09:15	08/20/13 09:15

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SAMPLE ANALYTE COUNT

Project: UCMR3 Aug.
Pace Project No.: 35105302

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
35105302001	EPTDS from GP Well #1	EPA 537	DWL	8	PASI-O
		EPA 200.8	HEA	5	PASI-O
		EPA 522	EAO	2	PASI-O
		EPA 524.3	RWS	10	PASI-O
		EPA 218.7	SOA	1	PASI-O
		EPA 300.1	AIS	2	PASI-O
35105302002	EPTDS from GP Well #1 Blank	EPA 200.8	HEA	5	PASI-O
35105302003	DSMRT For GP Well #1	EPA 200.8	HEA	5	PASI-O
		EPA 218.7	SOA	1	PASI-O
		EPA 300.1	AIS	2	PASI-O
35105302004	DSMRT For GP Well #1 Blank	EPA 200.8	HEA	5	PASI-O
35105302005	EPTDS from GP Well #2	EPA 537	DWL	8	PASI-O
		EPA 200.8	HEA	5	PASI-O
		EPA 522	EAO	2	PASI-O
		EPA 524.3	RWS	10	PASI-O
		EPA 218.7	SOA	1	PASI-O
		EPA 300.1	AIS	2	PASI-O
35105302006	EPTDS from GP Well #2 Blank	EPA 200.8	HEA	5	PASI-O
35105302007	DSMRT for GP Well #2	EPA 200.8	HEA	5	PASI-O
		EPA 218.7	SOA	1	PASI-O
		EPA 300.1	AIS	2	PASI-O
35105302008	DSMRT for GP Well #2 Blank	EPA 200.8	HEA	5	PASI-O
35105302009	EPTDS From Well #7	EPA 537	DWL	8	PASI-O
		EPA 200.8	HEA	5	PASI-O
		EPA 522	EAO	2	PASI-O
		EPA 524.3	RWS	10	PASI-O
		EPA 218.7	SOA	1	PASI-O
		EPA 300.1	AIS	2	PASI-O
35105302010	EPTDS From Well #7 Blank	EPA 537	DWL	8	PASI-O
		EPA 200.8	HEA	5	PASI-O
35105302011	DSMRT for Well #7	EPA 200.8	HEA	5	PASI-O
		EPA 218.7	SOA	1	PASI-O
		EPA 300.1	AIS	2	PASI-O
35105302012	DSMRT for Well #7 Blank	EPA 200.8	HEA	5	PASI-O
35105302013	EPTDS From Shaken GAC WTP	EPA 537	DWL	8	PASI-O
		EPA 200.8	HEA	5	PASI-O
		EPA 522	EAO	2	PASI-O

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SAMPLE ANALYTE COUNT

Project: UCMR3 Aug.

Pace Project No.: 35105302

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
		EPA 524.3	RWS	10	PASI-O
		EPA 218.7	SOA	1	PASI-O
		EPA 300.1	AIS	2	PASI-O
35105302014	EPTDS From Shaken GAC WTP Blan	EPA 200.8	HEA	5	PASI-O
35105302015	DSMRT From Shaken Road GAC WTP	EPA 200.8	HEA	5	PASI-O
		EPA 218.7	SOA	1	PASI-O
		EPA 300.1	AIS	2	PASI-O
35105302016	DSMRT From Shaken Road GAC Bla	EPA 200.8	HEA	5	PASI-O
35105302017	EPTDS From Well #6	EPA 537	DWL	8	PASI-O
		EPA 200.8	HEA	5	PASI-O
		EPA 522	EAO	2	PASI-O
		EPA 524.3	RWS	10	PASI-O
		EPA 218.7	SOA	1	PASI-O
		EPA 300.1	AIS	2	PASI-O
35105302018	EPTDS From Well #6 Blank	EPA 200.8	HEA	5	PASI-O
35105302019	DSMRT for Well #6	EPA 200.8	HEA	5	PASI-O
		EPA 218.7	SOA	1	PASI-O
		EPA 300.1	AIS	2	PASI-O
35105302020	DSMRT for Well #6 Blank	EPA 200.8	HEA	5	PASI-O

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ANALYTICAL RESULTS

Project: UCMR3 Aug.

Pace Project No.: 35105302

Sample: EPTDS from GP Well #1 Lab ID: 35105302001 Collected: 08/19/13 10:30 Received: 08/20/13 09:15 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
537 Perfluorinated Compounds									
Analytical Method: EPA 537 Preparation Method: EPA 537									
Perfluorobutanesulfonic acid	0.030U	ug/L	0.090	0.030	1	08/23/13 08:40	08/23/13 21:15	375-73-5	
Perfluoroheptanoic acid	0.0033U	ug/L	0.010	0.0033	1	08/23/13 08:40	08/23/13 21:15	375-85-9	
Perfluorohexanesulfonic acid	0.010U	ug/L	0.030	0.010	1	08/23/13 08:40	08/23/13 21:15	355-46-4	
Perfluorononanoic acid	0.00067U	ug/L	0.020	0.00067	1	08/23/13 08:40	08/23/13 21:15	375-95-1	
Perfluorooctanesulfonic acid	0.0013U	ug/L	0.040	0.0013	1	08/23/13 08:40	08/23/13 21:15	1763-23-1	
Perfluorooctanoic acid	0.00067U	ug/L	0.020	0.00067	1	08/23/13 08:40	08/23/13 21:15	335-67-1	
Surrogates									
Perfluorohexanoic acid (S)	106 %		70-130		1	08/23/13 08:40	08/23/13 21:15		
Perfluorodecanoic acid (S)	105 %		70-130		1	08/23/13 08:40	08/23/13 21:15		
200.8 MET ICPMS UCMR									
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8									
Chromium	0.78	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 16:18	7440-47-3	
Cobalt	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 16:18	7440-48-4	
Molybdenum	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 16:18	7439-98-7	N2
Strontium	159	ug/L	1.5	0.50	5	08/24/13 08:15	08/27/13 17:06	7440-24-6	D4
Vanadium	0.59	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 16:18	7440-62-2	N2
522 MSS 1,4 Dioxane									
Analytical Method: EPA 522 Preparation Method: EPA 522									
1,4-Dioxane (p-Dioxane)	0.044	ug/L	0.070	0.023	1	09/04/13 17:00	09/05/13 07:20	123-91-1	J(M1)
Surrogates									
1,4-Dioxane-d8 (S)	78 %		70-130		1	09/04/13 17:00	09/05/13 07:20		
524.3 MSV									
Analytical Method: EPA 524.3									
Bromochloromethane	0.020U	ug/L	0.060	0.020	1		09/01/13 06:57	74-97-5	J(M1)
Bromomethane	0.067U	ug/L	0.20	0.067	1		09/01/13 06:57	74-83-9	
1,3-Butadiene	0.033U	ug/L	0.10	0.033	1		09/01/13 06:57	106-99-0	J(M1)
Chlorodifluoromethane	0.027U	ug/L	0.080	0.027	1		09/01/13 06:57	75-45-6	J(M1)
Chloromethane	0.067U	ug/L	0.20	0.067	1		09/01/13 06:57	74-87-3	J(M1)
1,1-Dichloroethane	0.010U	ug/L	0.030	0.010	1		09/01/13 06:57	75-34-3	
1,2,3-Trichloropropane	0.010U	ug/L	0.030	0.010	1		09/01/13 06:57	96-18-4	
Surrogates									
4-Bromofluorobenzene (S)	90 %		70-130		1		09/01/13 06:57	460-00-4	
1,2-Dichlorobenzene-d4 (S)	96 %		70-130		1		09/01/13 06:57	2199-69-1	
Methyl-tert-butyl ether-d3 (S)	103 %		70-130		1		09/01/13 06:57	1634-04-4	
Hexavalent Chromium by IC									
Analytical Method: EPA 218.7									
Chromium, Hexavalent	0.55	ug/L	0.30	0.10	10		08/26/13 18:24	18540-29-9	
300.1 Oxihalide IC Anions 28d									
Analytical Method: EPA 300.1									
Chlorate	10.0U	ug/L	20.0	10.0	4		08/30/13 22:52	7790-93-4	
Surrogates									
Dichloroacetate (S)	94 %		90-115		4		08/30/13 22:52	79-43-6	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: UCMR3 Aug.

Pace Project No.: 35105302

Sample: EPTDS from GP Well #1 **Lab ID:** 35105302002 Collected: 08/19/13 10:30 Received: 08/20/13 09:15 Matrix: Drinking Water
Blank

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS UCMR		Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Chromium	0.085 I	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 15:44	7440-47-3	
Cobalt	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 15:44	7440-48-4	
Molybdenum	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 15:44	7439-98-7	N2
Strontium	0.10U	ug/L	0.30	0.10	1	08/24/13 08:15	08/27/13 15:44	7440-24-6	
Vanadium	0.067U	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 15:44	7440-62-2	N2

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ANALYTICAL RESULTS

Project: UCMR3 Aug.

Pace Project No.: 35105302

Sample: DSMRT For GP Well #1 **Lab ID: 35105302003** Collected: 08/19/13 12:00 Received: 08/20/13 09:15 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS UCMR		Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Chromium	0.82	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 16:27	7440-47-3	
Cobalt	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 16:27	7440-48-4	
Molybdenum	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 16:27	7439-98-7	N2
Strontium	98.0	ug/L	0.30	0.10	1	08/24/13 08:15	08/27/13 16:27	7440-24-6	
Vanadium	0.56	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 16:27	7440-62-2	N2
Hexavalent Chromium by IC		Analytical Method: EPA 218.7							
Chromium, Hexavalent	0.58	ug/L	0.30	0.10	10		08/26/13 18:37	18540-29-9	
300.1 Oxihalide IC Anions 28d		Analytical Method: EPA 300.1							
Chlorate	46.1	ug/L	20.0	10.0	4		08/30/13 23:30	7790-93-4	
Surrogates									
Dichloroacetate (S)	94 %		90-115		4		08/30/13 23:30	79-43-6	

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ANALYTICAL RESULTS

Project: UCMR3 Aug.

Pace Project No.: 35105302

Sample: DSMRT For GP Well #1 **Lab ID:** 35105302004 Collected: 08/19/13 12:00 Received: 08/20/13 09:15 Matrix: Drinking Water
Blank

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS UCMR		Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Chromium	0.079 I	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 15:47	7440-47-3	
Cobalt	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 15:47	7440-48-4	
Molybdenum	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 15:47	7439-98-7	N2
Strontium	0.10U	ug/L	0.30	0.10	1	08/24/13 08:15	08/27/13 15:47	7440-24-6	
Vanadium	0.067U	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 15:47	7440-62-2	N2

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ANALYTICAL RESULTS

Project: UCMR3 Aug.
Pace Project No.: 35105302

Sample: EPTDS from GP Well #2 **Lab ID: 35105302005** Collected: 08/19/13 10:00 Received: 08/20/13 09:15 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
537 Perfluorinated Compounds									
Analytical Method: EPA 537 Preparation Method: EPA 537									
Perfluorobutanesulfonic acid	0.030U	ug/L	0.090	0.030	1	08/23/13 08:40	08/23/13 21:53	375-73-5	
Perfluoroheptanoic acid	0.0033U	ug/L	0.010	0.0033	1	08/23/13 08:40	08/23/13 21:53	375-85-9	
Perfluorohexanesulfonic acid	0.010U	ug/L	0.030	0.010	1	08/23/13 08:40	08/23/13 21:53	355-46-4	
Perfluorononanoic acid	0.00067U	ug/L	0.020	0.00067	1	08/23/13 08:40	08/23/13 21:53	375-95-1	
Perfluorooctanesulfonic acid	0.0013U	ug/L	0.040	0.0013	1	08/23/13 08:40	08/23/13 21:53	1763-23-1	
Perfluorooctanoic acid	0.00067U	ug/L	0.020	0.00067	1	08/23/13 08:40	08/23/13 21:53	335-67-1	
Surrogates									
Perfluorohexanoic acid (S)	104 %		70-130		1	08/23/13 08:40	08/23/13 21:53		
Perfluorodecanoic acid (S)	98 %		70-130		1	08/23/13 08:40	08/23/13 21:53		
200.8 MET ICPMS UCMR									
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8									
Chromium	0.92	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 16:30	7440-47-3	
Cobalt	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 16:30	7440-48-4	
Molybdenum	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 16:30	7439-98-7	N2
Strontium	95.8	ug/L	1.5	0.50	5	08/24/13 08:15	08/27/13 17:15	7440-24-6	D4
Vanadium	0.24	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 16:30	7440-62-2	N2
522 MSS 1,4 Dioxane									
Analytical Method: EPA 522 Preparation Method: EPA 522									
1,4-Dioxane (p-Dioxane)	0.023U	ug/L	0.070	0.023	1	09/04/13 17:00	09/05/13 07:41	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	87 %		70-130		1	09/04/13 17:00	09/05/13 07:41		
524.3 MSV									
Analytical Method: EPA 524.3									
Bromochloromethane	0.020U	ug/L	0.060	0.020	1		09/01/13 10:19	74-97-5	
Bromomethane	0.067U	ug/L	0.20	0.067	1		09/01/13 10:19	74-83-9	
1,3-Butadiene	0.033U	ug/L	0.10	0.033	1		09/01/13 10:19	106-99-0	
Chlorodifluoromethane	0.027U	ug/L	0.080	0.027	1		09/01/13 10:19	75-45-6	
Chloromethane	0.067U	ug/L	0.20	0.067	1		09/01/13 10:19	74-87-3	
1,1-Dichloroethane	0.010U	ug/L	0.030	0.010	1		09/01/13 10:19	75-34-3	
1,2,3-Trichloropropane	0.010U	ug/L	0.030	0.010	1		09/01/13 10:19	96-18-4	
Surrogates									
4-Bromofluorobenzene (S)	87 %		70-130		1		09/01/13 10:19	460-00-4	
1,2-Dichlorobenzene-d4 (S)	90 %		70-130		1		09/01/13 10:19	2199-69-1	
Methyl-tert-butyl ether-d3 (S)	78 %		70-130		1		09/01/13 10:19	1634-04-4	
Hexavalent Chromium by IC									
Analytical Method: EPA 218.7									
Chromium, Hexavalent	0.61	ug/L	0.30	0.10	10		08/26/13 18:50	18540-29-9	
300.1 Oxihalide IC Anions 28d									
Analytical Method: EPA 300.1									
Chlorate	10.0U	ug/L	20.0	10.0	4		08/31/13 00:07	7790-93-4	
Surrogates									
Dichloroacetate (S)	93 %		90-115		4		08/31/13 00:07	79-43-6	

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ANALYTICAL RESULTS

Project: UCMR3 Aug.

Pace Project No.: 35105302

Sample: EPTDS from GP Well #2 **Lab ID:** 35105302006 Collected: 08/19/13 10:00 Received: 08/20/13 09:15 Matrix: Drinking Water
Blank

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS UCMR		Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Chromium	0.10 I	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 15:50	7440-47-3	
Cobalt	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 15:50	7440-48-4	
Molybdenum	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 15:50	7439-98-7	N2
Strontium	0.10U	ug/L	0.30	0.10	1	08/24/13 08:15	08/27/13 15:50	7440-24-6	
Vanadium	0.067U	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 15:50	7440-62-2	N2

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ANALYTICAL RESULTS

Project: UCMR3 Aug.

Pace Project No.: 35105302

Sample: DSMRT for GP Well #2 **Lab ID: 35105302007** Collected: 08/19/13 10:50 Received: 08/20/13 09:15 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS UCMR		Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Chromium	0.63	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 16:33	7440-47-3	
Cobalt	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 16:33	7440-48-4	
Molybdenum	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 16:33	7439-98-7	N2
Strontium	91.2	ug/L	0.30	0.10	1	08/24/13 08:15	08/27/13 16:33	7440-24-6	
Vanadium	0.37	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 16:33	7440-62-2	N2
Hexavalent Chromium by IC		Analytical Method: EPA 218.7							
Chromium, Hexavalent	0.43	ug/L	0.30	0.10	10		08/27/13 09:50	18540-29-9	
300.1 Oxihalide IC Anions 28d		Analytical Method: EPA 300.1							
Chlorate	12.8 I	ug/L	20.0	10.0	4		08/31/13 00:44	7790-93-4	
Surrogates									
Dichloroacetate (S)	94 %		90-115		4		08/31/13 00:44	79-43-6	

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ANALYTICAL RESULTS

Project: UCMR3 Aug.

Pace Project No.: 35105302

Sample: DSMRT for GP Well #2 **Lab ID:** 35105302008 Collected: 08/19/13 10:50 Received: 08/20/13 09:15 Matrix: Drinking Water
Blank

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS UCMR									
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8									
Chromium	0.098 I	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 15:53	7440-47-3	
Cobalt	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 15:53	7440-48-4	
Molybdenum	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 15:53	7439-98-7	N2
Strontium	0.10U	ug/L	0.30	0.10	1	08/24/13 08:15	08/27/13 15:53	7440-24-6	
Vanadium	0.067U	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 15:53	7440-62-2	N2

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ANALYTICAL RESULTS

Project: UCMR3 Aug.

Pace Project No.: 35105302

Sample: EPTDS From Well #7 **Lab ID: 35105302009** Collected: 08/19/13 11:20 Received: 08/20/13 09:15 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
537 Perfluorinated Compounds									
Analytical Method: EPA 537 Preparation Method: EPA 537									
Perfluorobutanesulfonic acid	0.030U	ug/L	0.090	0.030	1	08/23/13 08:40	08/23/13 22:31	375-73-5	
Perfluoroheptanoic acid	0.0033U	ug/L	0.010	0.0033	1	08/23/13 08:40	08/23/13 22:31	375-85-9	
Perfluorohexanesulfonic acid	0.10	ug/L	0.030	0.010	1	08/23/13 08:40	08/23/13 22:31	355-46-4	
Perfluorononanoic acid	0.00067U	ug/L	0.020	0.00067	1	08/23/13 08:40	08/23/13 22:31	375-95-1	
Perfluorooctanesulfonic acid	0.12	ug/L	0.040	0.0013	1	08/23/13 08:40	08/23/13 22:31	1763-23-1	
Perfluorooctanoic acid	0.028	ug/L	0.020	0.00067	1	08/23/13 08:40	08/23/13 22:31	335-67-1	
Surrogates									
Perfluorohexanoic acid (S)	103 %		70-130		1	08/23/13 08:40	08/23/13 22:31		
Perfluorodecanoic acid (S)	104 %		70-130		1	08/23/13 08:40	08/23/13 22:31		
200.8 MET ICPMS UCMR									
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8									
Chromium	0.81	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 16:35	7440-47-3	
Cobalt	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 16:35	7440-48-4	
Molybdenum	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 16:35	7439-98-7	N2
Strontium	97.0	ug/L	0.30	0.10	1	08/24/13 08:15	08/27/13 16:35	7440-24-6	
Vanadium	0.64	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 16:35	7440-62-2	N2
522 MSS 1,4 Dioxane									
Analytical Method: EPA 522 Preparation Method: EPA 522									
1,4-Dioxane (p-Dioxane)	0.023U	ug/L	0.070	0.023	1	09/04/13 17:00	09/05/13 08:02	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	90 %		70-130		1	09/04/13 17:00	09/05/13 08:02		
524.3 MSV									
Analytical Method: EPA 524.3									
Bromochloromethane	0.020U	ug/L	0.060	0.020	1		09/01/13 11:09	74-97-5	
Bromomethane	0.067U	ug/L	0.20	0.067	1		09/01/13 11:09	74-83-9	
1,3-Butadiene	0.033U	ug/L	0.10	0.033	1		09/01/13 11:09	106-99-0	
Chlorodifluoromethane	0.027U	ug/L	0.080	0.027	1		09/01/13 11:09	75-45-6	
Chloromethane	0.067U	ug/L	0.20	0.067	1		09/01/13 11:09	74-87-3	
1,1-Dichloroethane	0.010U	ug/L	0.030	0.010	1		09/01/13 11:09	75-34-3	
1,2,3-Trichloropropane	0.010U	ug/L	0.030	0.010	1		09/01/13 11:09	96-18-4	
Surrogates									
4-Bromofluorobenzene (S)	85 %		70-130		1		09/01/13 11:09	460-00-4	
1,2-Dichlorobenzene-d4 (S)	89 %		70-130		1		09/01/13 11:09	2199-69-1	
Methyl-tert-butyl ether-d3 (S)	96 %		70-130		1		09/01/13 11:09	1634-04-4	
Hexavalent Chromium by IC									
Analytical Method: EPA 218.7									
Chromium, Hexavalent	0.54	ug/L	0.30	0.10	10		08/27/13 10:29	18540-29-9	
300.1 Oxihalide IC Anions 28d									
Analytical Method: EPA 300.1									
Chlorate	10.0U	ug/L	20.0	10.0	4		08/31/13 01:22	7790-93-4	
Surrogates									
Dichloroacetate (S)	95 %		90-115		4		08/31/13 01:22	79-43-6	

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ANALYTICAL RESULTS

Project: UCMR3 Aug.

Pace Project No.: 35105302

Sample: EPTDS From Well #7 Blank **Lab ID: 35105302010** Collected: 08/19/13 11:20 Received: 08/20/13 09:15 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
537 Perfluorinated Compounds		Analytical Method: EPA 537 Preparation Method: EPA 537							
Perfluorobutanesulfonic acid	0.030U	ug/L	0.090	0.030	1	08/27/13 08:30	08/28/13 08:39	375-73-5	
Perfluoroheptanoic acid	0.0033U	ug/L	0.010	0.0033	1	08/27/13 08:30	08/28/13 08:39	375-85-9	
Perfluorohexanesulfonic acid	0.010U	ug/L	0.030	0.010	1	08/27/13 08:30	08/28/13 08:39	355-46-4	
Perfluorononanoic acid	0.00067U	ug/L	0.020	0.00067	1	08/27/13 08:30	08/28/13 08:39	375-95-1	
Perfluorooctanesulfonic acid	0.0013U	ug/L	0.040	0.0013	1	08/27/13 08:30	08/28/13 08:39	1763-23-1	
Perfluorooctanoic acid	0.00067U	ug/L	0.020	0.00067	1	08/27/13 08:30	08/28/13 08:39	335-67-1	
Surrogates									
Perfluorohexanoic acid (S)	100 %		70-130		1	08/27/13 08:30	08/28/13 08:39		
Perfluorodecanoic acid (S)	99 %		70-130		1	08/27/13 08:30	08/28/13 08:39		
200.8 MET ICPMS UCMR		Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Chromium	0.081 I	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 15:56	7440-47-3	
Cobalt	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 15:56	7440-48-4	
Molybdenum	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 15:56	7439-98-7	N2
Strontium	0.10U	ug/L	0.30	0.10	1	08/24/13 08:15	08/27/13 15:56	7440-24-6	
Vanadium	0.067U	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 15:56	7440-62-2	N2

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ANALYTICAL RESULTS

Project: UCMR3 Aug.
Pace Project No.: 35105302

Sample: DSMRT for Well #7 **Lab ID: 35105302011** Collected: 08/19/13 12:20 Received: 08/20/13 09:15 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS UCMR		Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Chromium	1.2	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 16:44	7440-47-3	
Cobalt	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 16:44	7440-48-4	
Molybdenum	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 16:44	7439-98-7	N2
Strontium	99.6	ug/L	1.5	0.50	5	08/24/13 08:15	08/27/13 17:18	7440-24-6	D4
Vanadium	0.62	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 16:44	7440-62-2	N2
Hexavalent Chromium by IC		Analytical Method: EPA 218.7							
Chromium, Hexavalent	1.0	ug/L	0.30	0.10	10		08/27/13 10:42	18540-29-9	
300.1 Oxihalide IC Anions 28d		Analytical Method: EPA 300.1							
Chlorate	72.2	ug/L	20.0	10.0	4		08/31/13 01:59	7790-93-4	
Surrogates									
Dichloroacetate (S)	95	%	90-115		4		08/31/13 01:59	79-43-6	

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ANALYTICAL RESULTS

Project: UCMR3 Aug.
Pace Project No.: 35105302

Sample: DSMRT for Well #7 Blank **Lab ID: 35105302012** Collected: 08/19/13 12:20 Received: 08/20/13 09:15 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS UCMR		Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Chromium	0.089 I	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 15:59	7440-47-3	
Cobalt	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 15:59	7440-48-4	
Molybdenum	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 15:59	7439-98-7	N2
Strontium	0.10U	ug/L	0.30	0.10	1	08/24/13 08:15	08/27/13 15:59	7440-24-6	
Vanadium	0.067U	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 15:59	7440-62-2	N2

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ANALYTICAL RESULTS

Project: UCMR3 Aug.

Pace Project No.: 35105302

Sample: EPTDS From Shaken GAC **Lab ID:** 35105302013 **Collected:** 08/19/13 10:00 **Received:** 08/20/13 09:15 **Matrix:** Drinking Water
WTP

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
537 Perfluorinated Compounds									
Analytical Method: EPA 537 Preparation Method: EPA 537									
Perfluorobutanesulfonic acid	0.030U	ug/L	0.090	0.030	1	08/23/13 08:40	08/23/13 23:09	375-73-5	
Perfluoroheptanoic acid	0.0033U	ug/L	0.010	0.0033	1	08/23/13 08:40	08/23/13 23:09	375-85-9	
Perfluorohexanesulfonic acid	0.010U	ug/L	0.030	0.010	1	08/23/13 08:40	08/23/13 23:09	355-46-4	
Perfluorononanoic acid	0.00067U	ug/L	0.020	0.00067	1	08/23/13 08:40	08/23/13 23:09	375-95-1	
Perfluorooctanesulfonic acid	0.0013U	ug/L	0.040	0.0013	1	08/23/13 08:40	08/23/13 23:09	1763-23-1	
Perfluorooctanoic acid	0.00067U	ug/L	0.020	0.00067	1	08/23/13 08:40	08/23/13 23:09	335-67-1	
Surrogates									
Perfluorohexanoic acid (S)	109 %		70-130		1	08/23/13 08:40	08/23/13 23:09		
Perfluorodecanoic acid (S)	105 %		70-130		1	08/23/13 08:40	08/23/13 23:09		
200.8 MET ICPMS UCMR									
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8									
Chromium	0.55	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 16:47	7440-47-3	
Cobalt	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 16:47	7440-48-4	
Molybdenum	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 16:47	7439-98-7	N2
Strontium	101	ug/L	1.5	0.50	5	08/24/13 08:15	08/27/13 17:26	7440-24-6	D4
Vanadium	0.41	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 16:47	7440-62-2	N2
522 MSS 1,4 Dioxane									
Analytical Method: EPA 522 Preparation Method: EPA 522									
1,4-Dioxane (p-Dioxane)	0.023U	ug/L	0.070	0.023	1	09/04/13 17:00	09/05/13 08:24	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	86 %		70-130		1	09/04/13 17:00	09/05/13 08:24		
524.3 MSV									
Analytical Method: EPA 524.3									
Bromochloromethane	0.020U	ug/L	0.060	0.020	1		09/01/13 12:00	74-97-5	
Bromomethane	0.067U	ug/L	0.20	0.067	1		09/01/13 12:00	74-83-9	
1,3-Butadiene	0.033U	ug/L	0.10	0.033	1		09/01/13 12:00	106-99-0	
Chlorodifluoromethane	0.027U	ug/L	0.080	0.027	1		09/01/13 12:00	75-45-6	
Chloromethane	0.067U	ug/L	0.20	0.067	1		09/01/13 12:00	74-87-3	
1,1-Dichloroethane	0.010U	ug/L	0.030	0.010	1		09/01/13 12:00	75-34-3	
1,2,3-Trichloropropane	0.010U	ug/L	0.030	0.010	1		09/01/13 12:00	96-18-4	
Surrogates									
4-Bromofluorobenzene (S)	87 %		70-130		1		09/01/13 12:00	460-00-4	
1,2-Dichlorobenzene-d4 (S)	87 %		70-130		1		09/01/13 12:00	2199-69-1	
Methyl-tert-butyl ether-d3 (S)	90 %		70-130		1		09/01/13 12:00	1634-04-4	
Hexavalent Chromium by IC									
Analytical Method: EPA 218.7									
Chromium, Hexavalent	0.32	ug/L	0.30	0.10	10		08/27/13 13:05	18540-29-9	
300.1 Oxihalide IC Anions 28d									
Analytical Method: EPA 300.1									
Chlorate	55.0	ug/L	20.0	10.0	4		08/31/13 02:37	7790-93-4	
Surrogates									
Dichloroacetate (S)	95 %		90-115		4		08/31/13 02:37	79-43-6	

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ANALYTICAL RESULTS

Project: UCMR3 Aug.

Pace Project No.: 35105302

Sample: EPTDS From Shaken GAC **Lab ID:** 35105302014 Collected: 08/19/13 10:00 Received: 08/20/13 09:15 Matrix: Drinking Water
WTP Blan

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS UCMR		Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Chromium	1.0	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 16:01	7440-47-3	
Cobalt	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 16:01	7440-48-4	
Molybdenum	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 16:01	7439-98-7	N2
Strontium	0.10U	ug/L	0.30	0.10	1	08/24/13 08:15	08/27/13 16:01	7440-24-6	
Vanadium	0.067U	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 16:01	7440-62-2	N2

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ANALYTICAL RESULTS

Project: UCMR3 Aug.

Pace Project No.: 35105302

Sample: DSMRT From Shaken Road **Lab ID:** 35105302015 **Collected:** 08/19/13 09:15 **Received:** 08/20/13 09:15 **Matrix:** Drinking Water
GAC WTP

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS UCMR		Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Chromium	0.71	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 16:49	7440-47-3	
Cobalt	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 16:49	7440-48-4	
Molybdenum	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 16:49	7439-98-7	N2
Strontium	107	ug/L	1.5	0.50	5	08/24/13 08:15	08/27/13 17:29	7440-24-6	D4
Vanadium	0.30	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 16:49	7440-62-2	N2
Hexavalent Chromium by IC		Analytical Method: EPA 218.7							
Chromium, Hexavalent	0.31	ug/L	0.15	0.050	5		08/27/13 11:08	18540-29-9	
300.1 Oxihalide IC Anions 28d		Analytical Method: EPA 300.1							
Chlorate	55.1	ug/L	20.0	10.0	4		08/31/13 03:14	7790-93-4	
Surrogates									
Dichloroacetate (S)	94 %		90-115		4		08/31/13 03:14	79-43-6	

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ANALYTICAL RESULTS

Project: UCMR3 Aug.

Pace Project No.: 35105302

Sample: DSMRT From Shaken Road **Lab ID:** 35105302016 Collected: 08/19/13 09:15 Received: 08/20/13 09:15 Matrix: Drinking Water
GAC Bla

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS UCMR		Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Chromium	0.20	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 16:10	7440-47-3	
Cobalt	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 16:10	7440-48-4	
Molybdenum	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 16:10	7439-98-7	N2
Strontium	0.10U	ug/L	0.30	0.10	1	08/24/13 08:15	08/27/13 16:10	7440-24-6	
Vanadium	0.067U	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 16:10	7440-62-2	N2

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ANALYTICAL RESULTS

Project: UCMR3 Aug.

Pace Project No.: 35105302

Sample: EPTDS From Well #6 **Lab ID: 35105302017** Collected: 08/19/13 08:30 Received: 08/20/13 09:15 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
537 Perfluorinated Compounds									
Analytical Method: EPA 537 Preparation Method: EPA 537									
Perfluorobutanesulfonic acid	0.030U	ug/L	0.090	0.030	1	08/23/13 08:40	08/23/13 23:47	375-73-5	
Perfluoroheptanoic acid	0.0033U	ug/L	0.010	0.0033	1	08/23/13 08:40	08/23/13 23:47	375-85-9	
Perfluorohexanesulfonic acid	0.010U	ug/L	0.030	0.010	1	08/23/13 08:40	08/23/13 23:47	355-46-4	
Perfluorononanoic acid	0.00067U	ug/L	0.020	0.00067	1	08/23/13 08:40	08/23/13 23:47	375-95-1	
Perfluorooctanesulfonic acid	0.0013U	ug/L	0.040	0.0013	1	08/23/13 08:40	08/23/13 23:47	1763-23-1	
Perfluorooctanoic acid	0.00067U	ug/L	0.020	0.00067	1	08/23/13 08:40	08/23/13 23:47	335-67-1	
Surrogates									
Perfluorohexanoic acid (S)	107 %		70-130		1	08/23/13 08:40	08/23/13 23:47		
Perfluorodecanoic acid (S)	104 %		70-130		1	08/23/13 08:40	08/23/13 23:47		
200.8 MET ICPMS UCMR									
Analytical Method: EPA 200.8 Preparation Method: EPA 200.8									
Chromium	0.64	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 16:52	7440-47-3	
Cobalt	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 16:52	7440-48-4	
Molybdenum	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 16:52	7439-98-7	N2
Strontium	30.8	ug/L	0.30	0.10	1	08/24/13 08:15	08/27/13 16:52	7440-24-6	
Vanadium	0.13 I	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 16:52	7440-62-2	N2
522 MSS 1,4 Dioxane									
Analytical Method: EPA 522 Preparation Method: EPA 522									
1,4-Dioxane (p-Dioxane)	0.023U	ug/L	0.070	0.023	1	09/04/13 17:00	09/05/13 08:45	123-91-1	
Surrogates									
1,4-Dioxane-d8 (S)	84 %		70-130		1	09/04/13 17:00	09/05/13 08:45		
524.3 MSV									
Analytical Method: EPA 524.3									
Bromochloromethane	0.020U	ug/L	0.060	0.020	1		09/01/13 12:50	74-97-5	
Bromomethane	0.067U	ug/L	0.20	0.067	1		09/01/13 12:50	74-83-9	
1,3-Butadiene	0.033U	ug/L	0.10	0.033	1		09/01/13 12:50	106-99-0	
Chlorodifluoromethane	0.027U	ug/L	0.080	0.027	1		09/01/13 12:50	75-45-6	
Chloromethane	0.067U	ug/L	0.20	0.067	1		09/01/13 12:50	74-87-3	
1,1-Dichloroethane	0.010U	ug/L	0.030	0.010	1		09/01/13 12:50	75-34-3	
1,2,3-Trichloropropane	0.010U	ug/L	0.030	0.010	1		09/01/13 12:50	96-18-4	
Surrogates									
4-Bromofluorobenzene (S)	85 %		70-130		1		09/01/13 12:50	460-00-4	
1,2-Dichlorobenzene-d4 (S)	89 %		70-130		1		09/01/13 12:50	2199-69-1	
Methyl-tert-butyl ether-d3 (S)	85 %		70-130		1		09/01/13 12:50	1634-04-4	
Hexavalent Chromium by IC									
Analytical Method: EPA 218.7									
Chromium, Hexavalent	0.36	ug/L	0.15	0.050	5		08/27/13 11:21	18540-29-9	
300.1 Oxihalide IC Anions 28d									
Analytical Method: EPA 300.1									
Chlorate	10.0U	ug/L	20.0	10.0	4		08/31/13 03:51	7790-93-4	
Surrogates									
Dichloroacetate (S)	95 %		90-115		4		08/31/13 03:51	79-43-6	

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ANALYTICAL RESULTS

Project: UCMR3 Aug.

Pace Project No.: 35105302

Sample: EPTDS From Well #6 Blank **Lab ID: 35105302018** Collected: 08/19/13 08:30 Received: 08/20/13 09:15 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS UCMR		Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Chromium	0.076 I	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 16:13	7440-47-3	
Cobalt	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 16:13	7440-48-4	
Molybdenum	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 16:13	7439-98-7	N2
Strontium	0.10U	ug/L	0.30	0.10	1	08/24/13 08:15	08/27/13 16:13	7440-24-6	
Vanadium	0.067U	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 16:13	7440-62-2	N2

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ANALYTICAL RESULTS

Project: UCMR3 Aug.

Pace Project No.: 35105302

Sample: DSMRT for Well #6 **Lab ID: 35105302019** Collected: 08/19/13 09:15 Received: 08/20/13 09:15 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS UCMR		Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Chromium	0.74	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 16:55	7440-47-3	
Cobalt	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 16:55	7440-48-4	
Molybdenum	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 16:55	7439-98-7	N2
Strontium	78.5	ug/L	0.30	0.10	1	08/24/13 08:15	08/27/13 16:55	7440-24-6	
Vanadium	0.097 I	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 16:55	7440-62-2	N2
Hexavalent Chromium by IC		Analytical Method: EPA 218.7							
Chromium, Hexavalent	0.58	ug/L	0.15	0.050	5		08/28/13 12:39	18540-29-9	J(M1)
300.1 Oxihalide IC Anions 28d		Analytical Method: EPA 300.1							
Chlorate	10.0U	ug/L	20.0	10.0	4		08/31/13 05:44	7790-93-4	J(M1)
Surrogates									
Dichloroacetate (S)	94 %		90-115		4		08/31/13 05:44	79-43-6	

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ANALYTICAL RESULTS

Project: UCMR3 Aug.

Pace Project No.: 35105302

Sample: DSMRT for Well #6 Blank Lab ID: 35105302020 Collected: 08/19/13 09:15 Received: 08/20/13 09:15 Matrix: Drinking Water

Parameters	Results	Units	PQL	MDL	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS UCMR		Analytical Method: EPA 200.8 Preparation Method: EPA 200.8							
Chromium	0.078 I	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 16:16	7440-47-3	
Cobalt	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 16:16	7440-48-4	
Molybdenum	0.33U	ug/L	1.0	0.33	1	08/24/13 08:15	08/27/13 16:16	7439-98-7	N2
Strontium	0.10U	ug/L	0.30	0.10	1	08/24/13 08:15	08/27/13 16:16	7440-24-6	
Vanadium	0.067U	ug/L	0.20	0.067	1	08/24/13 08:15	08/27/13 16:16	7440-62-2	N2

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QUALITY CONTROL DATA

Project: UCMR3 Aug.
Pace Project No.: 35105302

QC Batch: MPRP/14715 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: 200.8 MET UCMR Drinking Water
Associated Lab Samples: 35105302001, 35105302002, 35105302003, 35105302004, 35105302005, 35105302006, 35105302007, 35105302008, 35105302009, 35105302010, 35105302011, 35105302012, 35105302013, 35105302014, 35105302015, 35105302016, 35105302017, 35105302018, 35105302019, 35105302020

METHOD BLANK: 703331 Matrix: Water

Associated Lab Samples: 35105302001, 35105302002, 35105302003, 35105302004, 35105302005, 35105302006, 35105302007, 35105302008, 35105302009, 35105302010, 35105302011, 35105302012, 35105302013, 35105302014, 35105302015, 35105302016, 35105302017, 35105302018, 35105302019, 35105302020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium	ug/L	0.067U	0.20	08/27/13 14:25	
Cobalt	ug/L	0.33U	1.0	08/27/13 14:25	
Molybdenum	ug/L	0.33U	1.0	08/27/13 14:25	N2
Strontium	ug/L	0.10U	0.30	08/27/13 14:25	
Vanadium	ug/L	0.067U	0.20	08/27/13 14:25	N2

LABORATORY CONTROL SAMPLE: 703332

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium	ug/L	.2	0.28	142	50-150	
Cobalt	ug/L	1	1.1	108	50-150	
Molybdenum	ug/L	1	1.3	127	50-150	N2
Strontium	ug/L	.3	0.38	127	50-150	
Vanadium	ug/L	.2	0.29	146	50-150	N2

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 703333 703334

Parameter	Units	35105302001		MS		MSD		% Rec	% Rec	% Rec	Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result							
Chromium	ug/L	0.78	50	50	49.1	49.6	97	98	50-105	.8	20			
Cobalt	ug/L	0.33U	50	50	47.8	48.7	96	97	50-150	2	20			
Molybdenum	ug/L	0.33U	50	50	52.6	52.5	105	105	50-150	.2	20	N2		
Strontium	ug/L	159	50	50	212	218	107	119	50-150	3	20	D4		
Vanadium	ug/L	0.59	50	50	50.2	50.4	99	100	50-150	.5	20	N2		

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QUALITY CONTROL DATA

Project: UCMR3 Aug.
Pace Project No.: 35105302

QC Batch: MSV/9518 Analysis Method: EPA 524.3
QC Batch Method: EPA 524.3 Analysis Description: 524.3 MSV UCMR
Associated Lab Samples: 35105302001, 35105302005, 35105302009, 35105302013, 35105302017

METHOD BLANK: 708899 Matrix: Water
Associated Lab Samples: 35105302001, 35105302005, 35105302009, 35105302013, 35105302017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,1-Dichloroethane	ug/L	0.010U	0.030	09/01/13 03:35	
1,2,3-Trichloropropane	ug/L	0.010U	0.030	09/01/13 03:35	
1,3-Butadiene	ug/L	0.033U	0.10	09/01/13 03:35	
Bromochloromethane	ug/L	0.020U	0.060	09/01/13 03:35	
Bromomethane	ug/L	0.067U	0.20	09/01/13 03:35	
Chlorodifluoromethane	ug/L	0.027U	0.080	09/01/13 03:35	
Chloromethane	ug/L	0.067U	0.20	09/01/13 03:35	
1,2-Dichlorobenzene-d4 (S)	%	105	70-130	09/01/13 03:35	
4-Bromofluorobenzene (S)	%	99	70-130	09/01/13 03:35	
Methyl-tert-butyl ether-d3 (S)	%	106	70-130	09/01/13 03:35	

LABORATORY CONTROL SAMPLE: 708900

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,1-Dichloroethane	ug/L	.24	0.25	103	70-130	
1,2,3-Trichloropropane	ug/L	.24	0.22	92	70-130	
1,3-Butadiene	ug/L	.8	0.80	100	70-130	
Bromochloromethane	ug/L	.49	0.52	107	70-130	
Bromomethane	ug/L	1.6	1.8	113	70-130	
Chlorodifluoromethane	ug/L	.64	0.64	100	70-130	
Chloromethane	ug/L	1.6	1.7	106	70-130	
1,2-Dichlorobenzene-d4 (S)	%			100	70-130	
4-Bromofluorobenzene (S)	%			93	70-130	
Methyl-tert-butyl ether-d3 (S)	%			111	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 708901 708902

Parameter	Units	35105302001		MS	MSD	MS		MSD		% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec				
1,1-Dichloroethane	ug/L	0.010U	.033	.033	0.026	0.024	78	71	70-130		30		
1,2,3-Trichloropropane	ug/L	0.010U	.033	.033	0.042	0.024	125	71	70-130		30		
1,3-Butadiene	ug/L	0.033U	.11	.11	0.078	0.062	69	55	70-130		30	J(M1)	
Bromochloromethane	ug/L	0.020U	.069	.069	0.038	0.020U	55	25	70-130		30	J(M1)	
Bromomethane	ug/L	0.067U	.22	.22	0.19	0.16	86	71	70-130		30		
Chlorodifluoromethane	ug/L	0.027U	.09	.09	0.076	0.070	63	56	70-130		30	J(M1)	
Chloromethane	ug/L	0.067U	.22	.22	0.083	0.073	38	33	70-130		30	J(M1)	
1,2-Dichlorobenzene-d4 (S)	%						83	84	70-130				
4-Bromofluorobenzene (S)	%						86	83	70-130				
Methyl-tert-butyl ether-d3 (S)	%						77	74	70-130				

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QUALITY CONTROL DATA

Project: UCMR3 Aug.
Pace Project No.: 35105302

QC Batch: OEXT/14125 Analysis Method: EPA 522
QC Batch Method: EPA 522 Analysis Description: 522 MSS 1,4 Dioxane
Associated Lab Samples: 35105302001, 35105302005, 35105302009, 35105302013, 35105302017

METHOD BLANK: 711005 Matrix: Water
Associated Lab Samples: 35105302001, 35105302005, 35105302009, 35105302013, 35105302017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	0.023U	0.070	09/05/13 06:16	
1,4-Dioxane-d8 (S)	%	79	70-130	09/05/13 06:16	

LABORATORY CONTROL SAMPLE: 711006

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	.04	0.030 I	75	50-150	
1,4-Dioxane-d8 (S)	%			79	70-130	

LABORATORY CONTROL SAMPLE: 711008

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
1,4-Dioxane (p-Dioxane)	ug/L	2	1.6	81	50-150	
1,4-Dioxane-d8 (S)	%			81	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 711317 711318

Parameter	Units	35105302001 Result	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
			Spike Conc.	MS Result	Spike Conc.	MSD Result					
1,4-Dioxane (p-Dioxane)	ug/L	0.044 I	.04	0.058 I	.04	0.052 I	35	20	70-130	20	J(M1)
1,4-Dioxane-d8 (S)	%						81	83	70-130		

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QUALITY CONTROL DATA

Project: UCMR3 Aug.
Pace Project No.: 35105302

QC Batch: OEXT/13975 Analysis Method: EPA 537
QC Batch Method: EPA 537 Analysis Description: 537 Perfluorinated Compounds
Associated Lab Samples: 35105302001, 35105302005, 35105302009, 35105302013, 35105302017

METHOD BLANK: 702344 Matrix: Water
Associated Lab Samples: 35105302001, 35105302005, 35105302009, 35105302013, 35105302017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ug/L	0.030U	0.090	08/23/13 16:49	
Perfluoroheptanoic acid	ug/L	0.0033U	0.010	08/23/13 16:49	
Perfluorohexanesulfonic acid	ug/L	0.010U	0.030	08/23/13 16:49	
Perfluorononanoic acid	ug/L	0.00067U	0.020	08/23/13 16:49	
Perfluorooctanesulfonic acid	ug/L	0.0013U	0.040	08/23/13 16:49	
Perfluorooctanoic acid	ug/L	0.00067U	0.020	08/23/13 16:49	
Perfluorodecanoic acid (S)	%	97	70-130	08/23/13 16:49	
Perfluorohexanoic acid (S)	%	99	70-130	08/23/13 16:49	

LABORATORY CONTROL SAMPLE: 702345

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ug/L	.09	0.11	121	70-130	
Perfluoroheptanoic acid	ug/L	.01	0.011	108	70-130	
Perfluorohexanesulfonic acid	ug/L	.03	0.032	106	70-130	
Perfluorononanoic acid	ug/L	.02	0.023	116	70-130	
Perfluorooctanesulfonic acid	ug/L	.04	0.044	110	70-130	
Perfluorooctanoic acid	ug/L	.02	0.022	111	70-130	
Perfluorodecanoic acid (S)	%			100	70-130	
Perfluorohexanoic acid (S)	%			102	70-130	

LABORATORY CONTROL SAMPLE: 702346

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ug/L	.9	0.91	101	70-130	
Perfluoroheptanoic acid	ug/L	.1	0.10	101	70-130	
Perfluorohexanesulfonic acid	ug/L	.3	0.28	95	70-130	
Perfluorononanoic acid	ug/L	.2	0.20	102	70-130	
Perfluorooctanesulfonic acid	ug/L	.4	0.40	99	70-130	
Perfluorooctanoic acid	ug/L	.2	0.20	99	70-130	
Perfluorodecanoic acid (S)	%			100	70-130	
Perfluorohexanoic acid (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 703282 703283

Parameter	Units	MS		MSD		MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual	
		35104698001 Result	Spike Conc.	Spike Conc.	MS Result							MSD Result
Perfluorobutanesulfonic acid	ug/L	0.030U	.09	.09	0.10	0.10	115	114	70-130	.8	20	

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QUALITY CONTROL DATA

Project: UCMR3 Aug.

Pace Project No.: 35105302

Parameter	Units	703282		703283		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	RPD	Qual
		35104698001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result								
Perfluoroheptanoic acid	ug/L	0.0033 U	.01	.01	0.011	0.011	107	114	70-130	6	20		
Perfluorohexanesulfonic acid	ug/L	0.010U	.03	.03	0.031	0.032	104	108	70-130	3	20		
Perfluorononanoic acid	ug/L	0.00067 U	.02	.02	0.023	0.024	117	120	70-130	3	20		
Perfluorooctanesulfonic acid	ug/L	0.0013 U	.04	.04	0.043	0.044	108	111	70-130	3	20		
Perfluorooctanoic acid	ug/L	0.00067 U	.02	.02	0.022	0.022	110	110	70-130	.3	20		
Perfluorodecanoic acid (S)	%							97	98	70-130			
Perfluorohexanoic acid (S)	%							94	93	70-130			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: UCMR3 Aug.

Pace Project No.: 35105302

QC Batch: OEXT/14017

Analysis Method: EPA 537

QC Batch Method: EPA 537

Analysis Description: 537 Perfluorinated Compounds

Associated Lab Samples: 35105302010

METHOD BLANK: 705168

Matrix: Water

Associated Lab Samples: 35105302010

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Perfluorobutanesulfonic acid	ug/L	0.030U	0.090	08/27/13 17:28	
Perfluoroheptanoic acid	ug/L	0.0033U	0.010	08/27/13 17:28	
Perfluorohexanesulfonic acid	ug/L	0.010U	0.030	08/27/13 17:28	
Perfluorononanoic acid	ug/L	0.00067U	0.020	08/27/13 17:28	
Perfluorooctanesulfonic acid	ug/L	0.0013U	0.040	08/27/13 17:28	
Perfluorooctanoic acid	ug/L	0.00067U	0.020	08/27/13 17:28	
Perfluorodecanoic acid (S)	%	98	70-130	08/27/13 17:28	
Perfluorohexanoic acid (S)	%	98	70-130	08/27/13 17:28	

LABORATORY CONTROL SAMPLE: 705169

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ug/L	.09	0.11	125	70-130	
Perfluoroheptanoic acid	ug/L	.01	0.011	113	70-130	
Perfluorohexanesulfonic acid	ug/L	.03	0.033	112	70-130	
Perfluorononanoic acid	ug/L	.02	0.025	124	70-130	
Perfluorooctanesulfonic acid	ug/L	.04	0.043	108	70-130	
Perfluorooctanoic acid	ug/L	.02	0.023	114	70-130	
Perfluorodecanoic acid (S)	%			100	70-130	
Perfluorohexanoic acid (S)	%			100	70-130	

LABORATORY CONTROL SAMPLE: 705170

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Perfluorobutanesulfonic acid	ug/L	.36	0.40	111	70-130	
Perfluoroheptanoic acid	ug/L	.04	0.041	102	70-130	
Perfluorohexanesulfonic acid	ug/L	.12	0.12	102	70-130	
Perfluorononanoic acid	ug/L	.08	0.086	107	70-130	
Perfluorooctanesulfonic acid	ug/L	.16	0.16	99	70-130	
Perfluorooctanoic acid	ug/L	.08	0.082	102	70-130	
Perfluorodecanoic acid (S)	%			98	70-130	
Perfluorohexanoic acid (S)	%			101	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 705636

705637

Parameter	Units	35105482001		MS		MSD		% Rec	% Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec						
Perfluorobutanesulfonic acid	ug/L	0.030U	.36	.36	0.40	0.40	112	112	70-130	.3	20		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: UCMR3 Aug.

Pace Project No.: 35105302

Parameter	Units	705636		705637		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	Max RPD	Qual
		35105482001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result							
Perfluoroheptanoic acid	ug/L	0.0033 U	.04	.04	0.041	0.041	103	102	70-130	1	20	
Perfluorohexanesulfonic acid	ug/L	0.010U	.12	.12	0.12	0.12	99	100	70-130	.5	20	
Perfluorononanoic acid	ug/L	0.00067 U	.08	.08	0.088	0.087	110	109	70-130	1	20	
Perfluorooctanesulfonic acid	ug/L	0.0013 U	.16	.16	0.16	0.16	99	100	70-130	.3	20	
Perfluorooctanoic acid	ug/L	0.00067 U	.08	.08	0.084	0.081	105	101	70-130	4	20	
Perfluorodecanoic acid (S)	%						105	101	70-130			
Perfluorohexanoic acid (S)	%						104	100	70-130			

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: UCMR3 Aug.
Pace Project No.: 35105302

QC Batch: WETA/28884 Analysis Method: EPA 218.7
QC Batch Method: EPA 218.7 Analysis Description: Chromium, Hexavalent UCMR IC
Associated Lab Samples: 35105302001, 35105302003, 35105302005, 35105302007, 35105302009, 35105302011, 35105302013, 35105302015, 35105302017

METHOD BLANK: 703276 Matrix: Water
Associated Lab Samples: 35105302001, 35105302003, 35105302005, 35105302007, 35105302009, 35105302011, 35105302013, 35105302015, 35105302017

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	ug/L	0.010U	0.030	08/26/13 16:01	

LABORATORY CONTROL SAMPLE: 703277

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	ug/L	.075	0.072	96	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 703278 703279

Parameter	Units	35104865003 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Chromium, Hexavalent	ug/L	0.21	.05	.05	0.26	0.26	106	104	85-115	.3	20

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 703280 703281

Parameter	Units	35105302007 Result	MS	MSD	MS	MSD	MS	MSD	% Rec	Max	Qual
			Spike Conc.	Spike Conc.	Result	Result	% Rec	% Rec	Limits	RPD	
Chromium, Hexavalent	ug/L	0.43	.75	.75	1.2	1.2	103	105	85-115	1	20

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: UCMR3 Aug.

Pace Project No.: 35105302

QC Batch: WETA/29008

Analysis Method: EPA 218.7

QC Batch Method: EPA 218.7

Analysis Description: Chromium, Hexavalent UCMR IC

Associated Lab Samples: 35105302019

METHOD BLANK: 706677

Matrix: Water

Associated Lab Samples: 35105302019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chromium, Hexavalent	ug/L	0.010U	0.030	08/28/13 12:00	

LABORATORY CONTROL SAMPLE: 706678

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chromium, Hexavalent	ug/L	.075	0.074	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 706679

706680

Parameter	Units	35105302019		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.										
Chromium, Hexavalent	ug/L	0.58	.12	.12	0.72	0.72	116	119	85-115	.4	20	J(M1)	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 706681

706682

Parameter	Units	35105412003		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.										
Chromium, Hexavalent	ug/L	0.17	.38	.38	0.54	0.55	99	102	85-115	2	20		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: UCMR3 Aug.
Pace Project No.: 35105302

QC Batch: WETA/29117 Analysis Method: EPA 300.1
QC Batch Method: EPA 300.1 Analysis Description: 300.1 UCMR Oxihalides IC Anions
Associated Lab Samples: 35105302001, 35105302003, 35105302005, 35105302007, 35105302009, 35105302011, 35105302013, 35105302015, 35105302017, 35105302019

METHOD BLANK: 709552 Matrix: Water
Associated Lab Samples: 35105302001, 35105302003, 35105302005, 35105302007, 35105302009, 35105302011, 35105302013, 35105302015, 35105302017, 35105302019

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Chlorate	ug/L	2.5U	5.0	08/30/13 19:46	
Dichloroacetate (S)	%	95	90-115	08/30/13 19:46	

LABORATORY CONTROL SAMPLE: 709553

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Chlorate	ug/L	40	39.7	99	85-115	
Dichloroacetate (S)	%			101	90-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 709554 709555

Parameter	Units	35104916001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chlorate	ug/L	10.0U	160	160	151	150	94	94	85-115	.3	20	
Dichloroacetate (S)	%						94	94	90-115			

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 709556 709557

Parameter	Units	35105302019 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Chlorate	ug/L	10.0U	160	160	228	229	139	139	85-115	.08	20	J(M1)
Dichloroacetate (S)	%						94	94	90-115			

REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: UCMR3 Aug.

Pace Project No.: 35105302

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to changes in sample preparation, dilution of the sample aliquot, or moisture content.

ND - Not Detected at or above adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PRL - Pace Reporting Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine (8270 listed analyte) decomposes to Azobenzene.

Consistent with EPA guidelines, unrounded data are displayed and have been used to calculate % recovery and RPD values.

LCS(D) - Laboratory Control Sample (Duplicate)

MS(D) - Matrix Spike (Duplicate)

DUP - Sample Duplicate

RPD - Relative Percent Difference

NC - Not Calculable.

SG - Silica Gel - Clean-Up

U - Indicates the compound was analyzed for, but not detected.

N-Nitrosodiphenylamine decomposes and cannot be separated from Diphenylamine using Method 8270. The result reported for each analyte is a combined concentration.

Pace Analytical is TNI accredited. Contact your Pace PM for the current list of accredited analytes.

TNI - The NELAC Institute.

LABORATORIES

PASI-O Pace Analytical Services - Ormond Beach

ANALYTE QUALIFIERS

I The reported value is between the laboratory method detection limit and the laboratory practical quantitation limit.

D4 Sample was diluted due to the presence of high levels of target analytes.

J(M1) Estimated Value. Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

N2 The lab does not hold TNI accreditation for this parameter.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: UCMR3 Aug.
Pace Project No.: 35105302

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35105302001	EPTDS from GP Well #1	EPA 537	OEXT/13975	EPA 537	GCSV/9352
35105302005	EPTDS from GP Well #2	EPA 537	OEXT/13975	EPA 537	GCSV/9352
35105302009	EPTDS From Well #7	EPA 537	OEXT/13975	EPA 537	GCSV/9352
35105302010	EPTDS From Well #7 Blank	EPA 537	OEXT/14017	EPA 537	GCSV/9364
35105302013	EPTDS From Shaken GAC WTP	EPA 537	OEXT/13975	EPA 537	GCSV/9352
35105302017	EPTDS From Well #6	EPA 537	OEXT/13975	EPA 537	GCSV/9352
35105302001	EPTDS from GP Well #1	EPA 200.8	MPRP/14715	EPA 200.8	ICPM/5886
35105302002	EPTDS from GP Well #1 Blank	EPA 200.8	MPRP/14715	EPA 200.8	ICPM/5886
35105302003	DSMRT For GP Well #1	EPA 200.8	MPRP/14715	EPA 200.8	ICPM/5886
35105302004	DSMRT For GP Well #1 Blank	EPA 200.8	MPRP/14715	EPA 200.8	ICPM/5886
35105302005	EPTDS from GP Well #2	EPA 200.8	MPRP/14715	EPA 200.8	ICPM/5886
35105302006	EPTDS from GP Well #2 Blank	EPA 200.8	MPRP/14715	EPA 200.8	ICPM/5886
35105302007	DSMRT for GP Well #2	EPA 200.8	MPRP/14715	EPA 200.8	ICPM/5886
35105302008	DSMRT for GP Well #2 Blank	EPA 200.8	MPRP/14715	EPA 200.8	ICPM/5886
35105302009	EPTDS From Well #7	EPA 200.8	MPRP/14715	EPA 200.8	ICPM/5886
35105302010	EPTDS From Well #7 Blank	EPA 200.8	MPRP/14715	EPA 200.8	ICPM/5886
35105302011	DSMRT for Well #7	EPA 200.8	MPRP/14715	EPA 200.8	ICPM/5886
35105302012	DSMRT for Well #7 Blank	EPA 200.8	MPRP/14715	EPA 200.8	ICPM/5886
35105302013	EPTDS From Shaken GAC WTP	EPA 200.8	MPRP/14715	EPA 200.8	ICPM/5886
35105302014	EPTDS From Shaken GAC WTP Blan	EPA 200.8	MPRP/14715	EPA 200.8	ICPM/5886
35105302015	DSMRT From Shaken Road GAC WTP	EPA 200.8	MPRP/14715	EPA 200.8	ICPM/5886
35105302016	DSMRT From Shaken Road GAC Bla	EPA 200.8	MPRP/14715	EPA 200.8	ICPM/5886
35105302017	EPTDS From Well #6	EPA 200.8	MPRP/14715	EPA 200.8	ICPM/5886
35105302018	EPTDS From Well #6 Blank	EPA 200.8	MPRP/14715	EPA 200.8	ICPM/5886
35105302019	DSMRT for Well #6	EPA 200.8	MPRP/14715	EPA 200.8	ICPM/5886
35105302020	DSMRT for Well #6 Blank	EPA 200.8	MPRP/14715	EPA 200.8	ICPM/5886
35105302001	EPTDS from GP Well #1	EPA 522	OEXT/14125	EPA 522	MSSV/5177
35105302005	EPTDS from GP Well #2	EPA 522	OEXT/14125	EPA 522	MSSV/5177
35105302009	EPTDS From Well #7	EPA 522	OEXT/14125	EPA 522	MSSV/5177
35105302013	EPTDS From Shaken GAC WTP	EPA 522	OEXT/14125	EPA 522	MSSV/5177
35105302017	EPTDS From Well #6	EPA 522	OEXT/14125	EPA 522	MSSV/5177
35105302001	EPTDS from GP Well #1	EPA 524.3	MSV/9518		
35105302005	EPTDS from GP Well #2	EPA 524.3	MSV/9518		
35105302009	EPTDS From Well #7	EPA 524.3	MSV/9518		
35105302013	EPTDS From Shaken GAC WTP	EPA 524.3	MSV/9518		
35105302017	EPTDS From Well #6	EPA 524.3	MSV/9518		
35105302001	EPTDS from GP Well #1	EPA 218.7	WETA/28884		
35105302003	DSMRT For GP Well #1	EPA 218.7	WETA/28884		
35105302005	EPTDS from GP Well #2	EPA 218.7	WETA/28884		
35105302007	DSMRT for GP Well #2	EPA 218.7	WETA/28884		
35105302009	EPTDS From Well #7	EPA 218.7	WETA/28884		
35105302011	DSMRT for Well #7	EPA 218.7	WETA/28884		
35105302013	EPTDS From Shaken GAC WTP	EPA 218.7	WETA/28884		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: UCMR3 Aug.

Pace Project No.: 35105302

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
35105302015	DSMRT From Shaken Road GAC WTP	EPA 218.7	WETA/28884		
35105302017	EPTDS From Well #6	EPA 218.7	WETA/28884		
35105302019	DSMRT for Well #6	EPA 218.7	WETA/29008		
35105302001	EPTDS from GP Well #1	EPA 300.1	WETA/29117		
35105302003	DSMRT For GP Well #1	EPA 300.1	WETA/29117		
35105302005	EPTDS from GP Well #2	EPA 300.1	WETA/29117		
35105302007	DSMRT for GP Well #2	EPA 300.1	WETA/29117		
35105302009	EPTDS From Well #7	EPA 300.1	WETA/29117		
35105302011	DSMRT for Well #7	EPA 300.1	WETA/29117		
35105302013	EPTDS From Shaken GAC WTP	EPA 300.1	WETA/29117		
35105302015	DSMRT From Shaken Road GAC WTP	EPA 300.1	WETA/29117		
35105302017	EPTDS From Well #6	EPA 300.1	WETA/29117		
35105302019	DSMRT for Well #6	EPA 300.1	WETA/29117		

REPORT OF LABORATORY ANALYSIS

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CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



Page: **1694231** of

Section A Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company Name: Westfield Water Resources	Report To: C. Darling	Company Name: Rebe McLaughlin	Attention: Rebe McLaughlin	REGULATORY AGENCY NPDES <input type="checkbox"/> GROUND WATER <input checked="" type="checkbox"/> DRINKING WATER	
Address: 28 Sackett St. Westfield, MA 01085	Copy To: Rebe McLaughlin	Address: Rebe McLaughlin	Address: Rebe McLaughlin	UST <input type="checkbox"/> RCRA <input type="checkbox"/> OTHER <input type="checkbox"/>	
Phone: 413-572-6270	Project Name: City of Westfield	Reference: Purchase Order No.: UCMR3	Reference: Pace Project Manager:	Site Location STATE: <u>MA</u>	
Requested Due Date/TAT: Standard	Project Number: Aug				

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives	Analysis Test ↑ Y/N ↑	Requested Analysis Filtered (Y/N)		Pace Project No./ Lab I.D.
			COMPOSITE START	COMPOSITE END/GRAB						DATE	TIME	
1	Well #1 Matrix Spike	DW	DATE	TIME	DWG		1	Unpreserved	X			
2		WT	08/13	1045			1	H ₂ SO ₄	X	522.1		
3		WW					1	HCl	X	537		
4		P					2	NaOH	X	543		
5		SL						HNO ₃				
6		Oil						H ₂ O ₂				
7		Wipe						Na ₂ S ₂ O ₃				
8		Air						Other				
9		Tissue										
10		Other										
11												
12												

ADDITIONAL COMMENTS SAMPLING KIT-EMPTY		RELINQUISHED BY / AFFILIATION JSP	DATE 7/26/13	TIME 1600	ACCEPTED BY / AFFILIATION JSP	DATE 8/26/13	TIME 1104	Temp in °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
SAMPLER NAME AND SIGNATURE		PRINT Name of SAMPLER:		SIGNATURE of SAMPLER:		DATE Signed (MM/DD/YYYY)					

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



Section A Required Client Information:

Company: Westfield Water Resources
 Address: Sackett St.
Westfield, MA 01085
 Email To: C. Darling @ cityofwestfield.org
 Phone: 413-572-6270 Fax: 413-564-3153
 Requested Due Date/TAT: Standard

Section B Required Project Information:

Report To: C. Darling
 Copy To: Pete McLaughlin
A. McLaughlin @ cityofwestfield.org
 Purchase Order No.:
 Project Name: UCMR3
 Project Number: Aug

Section C Invoice Information:

Attention:
 Company Name:
 Address:
 Pace Quote Reference:
 Pace Project Manager:
 Pace Profile #:

Page: 1694231 of

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER
 UST RCRA OTHER

Site Location
 STATE: MA

ITEM #	Section D Required Client Information		Section B Required Project Information		Section C Invoice Information		Matrix Codes MATRIX / CODE DW Drinking Water WT Waste Water WW Waste Water Product P Soil/Solid OL Oil WP Wipe AR Air TS Tissue OT Other	MATRIX CODE (see valid codes to left)	SAMPLE TYPE (G=GRAB C=COMP)	COLLECTED		# OF CONTAINERS	Unpreserved H ₂ SO ₄ HNO ₃ HCl NaOH Na ₂ S ₂ O ₃ Methanol Other	Analysis Test Y/N	Requested Analysis Filtered (Y/N)	Pace Project No./ Lab I.D.	
	Sample ID (A-Z, 0-9 / /)	Sample IDs MUST BE UNIQUE	COMPOSITE START	COMPOSITE END/GRAB	DATE	TIME				DATE	TIME						DATE
1	EPTDS from well #7							DW	G		8/13/13	1120	1				
2																	
3																	
4																	
5																	
6																	
7	DSMBT for well #7							DW	G		8/13/13	1220	2				
8																	
9																	
10																	
11																	
12																	

ACCEPTED BY / AFFILIATION: [Signature]
 DATE: 8/13/13 TIME: 1600
 RELINQUISHED BY / AFFILIATION: [Signature]
 DATE: 7/26/13 TIME: 1600
 SAMPLE CONDITIONS: Temp in C
Received on
Ice (Y/N)
Custody
Sealed Cooler (Y/N)
Samples Intact (Y/N)

ORIGINAL

*Important Note: By signing this form you are accepting Pace's NET 30 day payment terms and agreeing to late charges of 1.5% per month for any invoices not paid within 30 days.



Sample Condition Upon Receipt Form (SCUR)

Table Number: _____

Client Name: Westfield Project # 35105302

Courier: Fed Ex UPS USPS Client Commercial Pace

Other _____

Tracking # 8030 0137 1086 / 1075 / 1064

Custody Seal on Cooler/Box Present: yes no Seals intact: yes no

Date and Initials of person examining contents: 8/20/13 JH

Packing Material: Bubble Wrap Bubble Bags None Other _____

Thermometer Used T166 Type of Ice: Wet Blue None
Cooler Temperature °C 7.7 (Visual) 0.0 (Correction Factor) 7.7 (Actual)

(Temp should be above freezing to 6°C). If below 0°C, then was sample frozen?

Yes No

Receipt of samples satisfactory:
#1 6.8 Yes No
#2 4.1 Yes No
#3 4.1 Yes No

Rush TAT requested on COC: _____

If yes, then all conditions below were met:	If no, then mark box & describe issue (use comments area if necessary):
Chain of Custody Present	<input type="checkbox"/>
Chain of Custody Filled Out	<input type="checkbox"/>
Relinquished Signature & Sampler Name COC	<input type="checkbox"/>
Samples Arrived within Hold Time	<input type="checkbox"/>
Sufficient Volume	<input type="checkbox"/>
Correct Containers Used	<input type="checkbox"/>
Containers Intact	<input type="checkbox"/>
Sample Labels match COC (sample IDs & date/time of collection)	<input type="checkbox"/>
	No Labels: <input type="checkbox"/> No Time/Date on Labels: <input type="checkbox"/>
All containers needing preservation are found to be in compliance with EPA recommendation.	<input type="checkbox"/>
No Headspace in VOA Vials (>6mm):	<input type="checkbox"/>

Client Notification/ Resolution:

Person Contacted: _____ Date/Time: _____

Comments/ Resolution (use back for additional comments):

Sample Sites not needed, samples were disposed of. JHO

Project Manager Review: _____

JHO

Date: _____

Finished Product Information Only	
F.P. Sample ID: _____	Size & Qty of Bottles Received _____ x 5 Gal _____ x 2.5 Gal _____ x 1 Gal _____ x 1 Liter _____ x 500 mL _____ x 250 mL _____ x Other: _____
Production Code: _____	
Date/Time Opened: _____	
Number of Unopened Bottles Remaining: _____	
Extra Sample in Shed: Yes No	