

April 23, 2018

Robert Smith
ATC Group Services
46555 Humboldt
Suite 100
Novi, MI 48377

RE: Project: DW Testing - DPS Priest
Pace Project No.: 4610691

Dear Robert Smith:

Enclosed are the analytical results for sample(s) received by the laboratory on April 11, 2018. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC 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,



Gary Wood
gary.wood@pacelabs.com
(616)940-4206
Project Manager

Enclosures

cc: AP c/o Abigail Jardine, ATC Group Services
Michael Hauswirth, ATC Group Services



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: DW Testing - DPS Priest

Pace Project No.: 4610691

Grand Rapids Certification ID's

5560 Corporate Exchange Ct SE, Grand Rapids, MI 49512

Minnesota Department of Health, Certificate #1385941

Arkansas Department of Environmental Quality, Certificate
#17-046-0

Georgia Environmental Protection Division, Stipulation

Illinois Environmental Protection Agency, Certificate

#004325

Michigan Department of Environmental Quality, Laboratory

#0034

New York State Department of Health, Serial #56192 and
56193

North Carolina Division of Water Resources, Certificate
#659

Virginia Department of General Services, Certificate #9028

Wisconsin Department of Natural Resources, Laboratory
#999472650

U.S. Department of Agriculture Permit to Receive Soil,
Permit #P330-17-00278

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: DW Testing - DPS Priest

Pace Project No.: 4610691

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4610691001	1-A-WC-L-FD	Drinking Water	04/05/18 07:30	04/11/18 17:58
4610691002	1-A-WC-L-F	Drinking Water	04/05/18 07:31	04/11/18 17:58
4610691003	1-A-WC-R-FD	Drinking Water	04/05/18 07:32	04/11/18 17:58
4610691004	1-A-WC-R-F	Drinking Water	04/05/18 07:33	04/11/18 17:58
4610691005	1-A-B-3-FD	Drinking Water	04/05/18 07:52	04/11/18 17:58
4610691006	1-A-B-3-F	Drinking Water	04/05/18 07:53	04/11/18 17:58
4610691007	1-A-B-4-FD	Drinking Water	04/05/18 07:50	04/11/18 17:58
4610691008	1-A-B-4-F	Drinking Water	04/05/18 07:51	04/11/18 17:58
4610691009	1-A-KS-1-FD	Drinking Water	04/05/18 07:57	04/11/18 17:58
4610691010	1-A-KS-1-F	Drinking Water	04/05/18 07:58	04/11/18 17:58
4610691011	1-A-B-2-FD	Drinking Water	04/05/18 08:05	04/11/18 17:58
4610691012	1-A-B-2-F	Drinking Water	04/05/18 08:06	04/11/18 17:58
4610691013	2-B-WC-L-FD	Drinking Water	04/05/18 08:32	04/11/18 17:58
4610691014	2-B-WC-L-F	Drinking Water	04/05/18 08:33	04/11/18 17:58
4610691015	2-B-WC-R-FD	Drinking Water	04/05/18 08:30	04/11/18 17:58
4610691016	2-B-WC-R-F	Drinking Water	04/05/18 08:31	04/11/18 17:58
4610691017	2-B-B-1-FD	Drinking Water	04/05/18 08:32	04/11/18 17:58
4610691018	2-B-B-1-F	Drinking Water	04/05/18 08:25	04/11/18 17:58
4610691019	2-B-B-4-FD	Drinking Water	04/05/18 08:26	04/11/18 17:58
4610691020	2-B-B-4-F	Drinking Water	04/05/18 08:27	04/11/18 17:58
4610691021	2-B-B-5-FD	Drinking Water	04/05/18 08:28	04/11/18 17:58
4610691022	2-B-B-5-F	Drinking Water	04/05/18 08:29	04/11/18 17:58

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SAMPLE ANALYTE COUNT

Project: DW Testing - DPS Priest

Pace Project No.: 4610691

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4610691001	1-A-WC-L-FD	EPA 200.8	DWJ	2
4610691002	1-A-WC-L-F	EPA 200.8	DWJ	2
4610691003	1-A-WC-R-FD	EPA 200.8	DWJ	2
4610691004	1-A-WC-R-F	EPA 200.8	DWJ	2
4610691005	1-A-B-3-FD	EPA 200.8	DWJ	2
4610691006	1-A-B-3-F	EPA 200.8	DWJ	2
4610691007	1-A-B-4-FD	EPA 200.8	DWJ	2
4610691008	1-A-B-4-F	EPA 200.8	DWJ	2
4610691009	1-A-KS-1-FD	EPA 200.8	DWJ	2
4610691010	1-A-KS-1-F	EPA 200.8	DWJ	2
4610691011	1-A-B-2-FD	EPA 200.8	DWJ	2
4610691012	1-A-B-2-F	EPA 200.8	DWJ	2
4610691013	2-B-WC-L-FD	EPA 200.8	DWJ	2
4610691014	2-B-WC-L-F	EPA 200.8	DWJ	2
4610691015	2-B-WC-R-FD	EPA 200.8	DWJ	2
4610691016	2-B-WC-R-F	EPA 200.8	DWJ	2
4610691017	2-B-B-1-FD	EPA 200.8	DWJ	2
4610691018	2-B-B-1-F	EPA 200.8	DWJ	2
4610691019	2-B-B-4-FD	EPA 200.8	DWJ	2
4610691020	2-B-B-4-F	EPA 200.8	DWJ	2
4610691021	2-B-B-5-FD	EPA 200.8	DWJ	2
4610691022	2-B-B-5-F	EPA 200.8	DWJ	2

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ANALYTICAL RESULTS

Project: DW Testing - DPS Priest

Pace Project No.: 4610691

Sample: 1-A-WC-L-FD		Lab ID: 4610691001		Collected: 04/05/18 07:30		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	188	ug/L	5.0	1300	5		04/19/18 16:03	7440-50-8	
Lead	3.4	ug/L	1.0	15	1		04/19/18 13:19	7439-92-1	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: DW Testing - DPS Priest

Pace Project No.: 4610691

Sample: 1-A-WC-L-F		Lab ID: 4610691002		Collected: 04/05/18 07:31		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	75.3	ug/L	1.0	1300	1		04/19/18 13:25	7440-50-8	
Lead	3.2	ug/L	1.0	15	1		04/19/18 13:25	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - DPS Priest

Pace Project No.: 4610691

Sample: 1-A-WC-R-FD		Lab ID: 4610691003		Collected: 04/05/18 07:32		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	201	ug/L	5.0	1300	5		04/19/18 16:09	7440-50-8	
Lead	3.9	ug/L	1.0	15	1		04/19/18 13:26	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - DPS Priest

Pace Project No.: 4610691

Sample: 1-A-WC-R-F		Lab ID: 4610691004		Collected: 04/05/18 07:33		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	130	ug/L	5.0	1300	5		04/19/18 16:10	7440-50-8	
Lead	3.9	ug/L	1.0	15	1		04/19/18 13:30	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - DPS Priest

Pace Project No.: 4610691

Sample: 1-A-B-3-FD		Lab ID: 4610691005		Collected: 04/05/18 07:52		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	3.9	ug/L	1.0	1300	1		04/19/18 13:32	7440-50-8	
Lead	4.5	ug/L	1.0	15	1		04/19/18 13:32	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - DPS Priest

Pace Project No.: 4610691

Sample: 1-A-B-3-F		Lab ID: 4610691006		Collected: 04/05/18 07:53		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	1.2	ug/L	1.0	1300	1		04/19/18 13:33	7440-50-8	
Lead	2.1	ug/L	1.0	15	1		04/19/18 13:33	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - DPS Priest

Pace Project No.: 4610691

Sample: 1-A-B-4-FD		Lab ID: 4610691007		Collected: 04/05/18 07:50		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	8.7	ug/L	1.0	1300	1		04/19/18 13:34	7440-50-8	
Lead	5.3	ug/L	1.0	15	1		04/19/18 13:34	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - DPS Priest

Pace Project No.: 4610691

Sample: 1-A-B-4-F		Lab ID: 4610691008		Collected: 04/05/18 07:51		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	2.8	ug/L	1.0	1300	1		04/19/18 13:35	7440-50-8	
Lead	2.2	ug/L	1.0	15	1		04/19/18 13:35	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - DPS Priest

Pace Project No.: 4610691

Sample: 1-A-KS-1-FD		Lab ID: 4610691009		Collected: 04/05/18 07:57		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	372	ug/L	5.0	1300	5		04/19/18 16:11	7440-50-8	
Lead	2.3	ug/L	1.0	15	1		04/19/18 13:37	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - DPS Priest

Pace Project No.: 4610691

Sample: 1-A-KS-1-F		Lab ID: 4610691010		Collected: 04/05/18 07:58		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	213	ug/L	5.0	1300	5		04/19/18 16:13	7440-50-8	
Lead	1.2	ug/L	1.0	15	1		04/19/18 13:38	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - DPS Priest

Pace Project No.: 4610691

Sample: 1-A-B-2-FD		Lab ID: 4610691011		Collected: 04/05/18 08:05		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	4.1	ug/L	1.0	1300	1		04/19/18 13:39	7440-50-8	
Lead	3.7	ug/L	1.0	15	1		04/19/18 13:39	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - DPS Priest

Pace Project No.: 4610691

Sample: 1-A-B-2-F		Lab ID: 4610691012		Collected: 04/05/18 08:06		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	3.1	ug/L	1.0	1300	1		04/19/18 13:41	7440-50-8	
Lead	1.3	ug/L	1.0	15	1		04/19/18 13:41	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - DPS Priest

Pace Project No.: 4610691

Sample: 2-B-WC-L-FD		Lab ID: 4610691013		Collected: 04/05/18 08:32		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	2.2	ug/L	1.0	1300	1		04/19/18 13:42	7440-50-8	
Lead	4.8	ug/L	1.0	15	1		04/19/18 13:42	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - DPS Priest

Pace Project No.: 4610691

Sample: 2-B-WC-L-F		Lab ID: 4610691014		Collected: 04/05/18 08:33		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	8.7	ug/L	1.0	1300	1		04/19/18 13:46	7440-50-8	
Lead	3.7	ug/L	1.0	15	1		04/19/18 13:46	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - DPS Priest

Pace Project No.: 4610691

Sample: 2-B-WC-R-FD		Lab ID: 4610691015		Collected: 04/05/18 08:30		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	12.6	ug/L	1.0	1300	1		04/19/18 13:48	7440-50-8	
Lead	3.5	ug/L	1.0	15	1		04/19/18 13:48	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - DPS Priest

Pace Project No.: 4610691

Sample: 2-B-WC-R-F		Lab ID: 4610691016		Collected: 04/05/18 08:31		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	8.2	ug/L	1.0	1300	1		04/19/18 13:49	7440-50-8	
Lead	4.2	ug/L	1.0	15	1		04/19/18 13:49	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - DPS Priest

Pace Project No.: 4610691

Sample: 2-B-B-1-FD		Lab ID: 4610691017		Collected: 04/05/18 08:32		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	3.7	ug/L	1.0	1300	1		04/19/18 13:50	7440-50-8	
Lead	6.2	ug/L	1.0	15	1		04/19/18 13:50	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - DPS Priest

Pace Project No.: 4610691

Sample: 2-B-B-1-F		Lab ID: 4610691018		Collected: 04/05/18 08:25		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	2.5	ug/L	1.0	1300	1		04/19/18 13:51	7440-50-8	
Lead	5.8	ug/L	1.0	15	1		04/19/18 13:51	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - DPS Priest

Pace Project No.: 4610691

Sample: 2-B-B-4-FD		Lab ID: 4610691019		Collected: 04/05/18 08:26		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	1.1	ug/L	1.0	1300	1		04/19/18 13:53	7440-50-8	
Lead	12.8	ug/L	1.0	15	1		04/19/18 13:53	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - DPS Priest

Pace Project No.: 4610691

Sample: 2-B-B-4-F		Lab ID: 4610691020	Collected: 04/05/18 08:27	Received: 04/11/18 17:58	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	<1.0	ug/L	1.0	1300	1		04/19/18 13:54	7440-50-8	
Lead	10.1	ug/L	1.0	15	1		04/19/18 13:54	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - DPS Priest

Pace Project No.: 4610691

Sample: 2-B-B-5-FD		Lab ID: 4610691021	Collected: 04/05/18 08:28	Received: 04/11/18 17:58	Matrix: Drinking Water				
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	1.4	ug/L	1.0	1300	1		04/19/18 14:09	7440-50-8	
Lead	9.7	ug/L	1.0	15	1		04/19/18 14:09	7439-92-1	

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ANALYTICAL RESULTS

Project: DW Testing - DPS Priest

Pace Project No.: 4610691

Sample: 2-B-B-5-F		Lab ID: 4610691022		Collected: 04/05/18 08:29		Received: 04/11/18 17:58		Matrix: Drinking Water	
Parameters	Results	Units	Report Limit	Reg. Limit	DF	Prepared	Analyzed	CAS No.	Qual
200.8 MET ICPMS Drinking Water		Analytical Method: EPA 200.8							
Copper	1.0	ug/L	1.0	1300	1		04/19/18 14:10	7440-50-8	
Lead	11.0	ug/L	1.0	15	1		04/19/18 14:10	7439-92-1	

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QUALITY CONTROL DATA

Project: DW Testing - DPS Priest

Pace Project No.: 4610691

QC Batch:	20780	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	ICPMS Metals, No Prep
Associated Lab Samples:	4610691001, 4610691002, 4610691003, 4610691004, 4610691005, 4610691006, 4610691007, 4610691008, 4610691009, 4610691010, 4610691011, 4610691012, 4610691013, 4610691014, 4610691015, 4610691016, 4610691017, 4610691018, 4610691019, 4610691020		

METHOD BLANK: 82908

Matrix: Water

Associated Lab Samples: 4610691001, 4610691002, 4610691003, 4610691004, 4610691005, 4610691006, 4610691007, 4610691008, 4610691009, 4610691010, 4610691011, 4610691012, 4610691013, 4610691014, 4610691015, 4610691016, 4610691017, 4610691018, 4610691019, 4610691020

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<1.0	1.0	04/19/18 13:17	
Lead	ug/L	<1.0	1.0	04/19/18 13:17	

LABORATORY CONTROL SAMPLE: 82909

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	20	20.1	100	85-115	
Lead	ug/L	20	19.7	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 82910

82911

Parameter	Units	4610691001 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	188	200	200	339	344	76	78	70-130	1	20	
Lead	ug/L	3.4	20	20	23.8	23.6	102	101	70-130	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 82913

82914

Parameter	Units	4610691020 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	<1.0	20	20	20.5	21.3	98	102	70-130	4	20	
Lead	ug/L	10.1	20	20	30.4	30.1	102	100	70-130	1	20	

Results presented on this page are in the units indicated by the "Units" column except where an alternate unit is presented to the right of the result.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: DW Testing - DPS Priest

Pace Project No.: 4610691

QC Batch:	20781	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	ICPMS Metals, No Prep
Associated Lab Samples:	4610691021, 4610691022		

METHOD BLANK: 82917 Matrix: Water

Associated Lab Samples: 4610691021, 4610691022

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<1.0	1.0	04/19/18 14:06	
Lead	ug/L	<1.0	1.0	04/19/18 14:06	

LABORATORY CONTROL SAMPLE: 82918

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	20	20.1	101	85-115	
Lead	ug/L	20	19.6	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 82920 82921

Parameter	Units	4610692004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	4.2	20	20	23.0	23.9	94	99	70-130	4	20	
Lead	ug/L	<1.0	20	20	19.7	20.7	99	103	70-130	5	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 82922 82923

Parameter	Units	4610692018 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	42.3	20	20	62.3	61.3	100	95	70-130	2	20	
Lead	ug/L	<1.0	20	20	20.7	20.1	104	101	70-130	3	20	

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REPORT OF LABORATORY ANALYSIS

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QUALIFIERS

Project: DW Testing - DPS Priest

Pace Project No.: 4610691

DEFINITIONS

DF - Dilution Factor, if reported, represents the factor applied to the reported data due to dilution of the sample aliquot.

ND - Not Detected at or above adjusted reporting limit.

TNTC - Too Numerous To Count

J - Estimated concentration above the adjusted method detection limit and below the adjusted reporting limit.

MDL - Adjusted Method Detection Limit.

PQL - Practical Quantitation Limit.

RL - Reporting Limit.

S - Surrogate

1,2-Diphenylhydrazine decomposes to and cannot be separated from Azobenzene using Method 8270. The result for each analyte is a combined concentration.

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: DW Testing - DPS Priest

Pace Project No.: 4610691

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4610691001	1-A-WC-L-FD	EPA 200.8	20780		
4610691002	1-A-WC-L-F	EPA 200.8	20780		
4610691003	1-A-WC-R-FD	EPA 200.8	20780		
4610691004	1-A-WC-R-F	EPA 200.8	20780		
4610691005	1-A-B-3-FD	EPA 200.8	20780		
4610691006	1-A-B-3-F	EPA 200.8	20780		
4610691007	1-A-B-4-FD	EPA 200.8	20780		
4610691008	1-A-B-4-F	EPA 200.8	20780		
4610691009	1-A-KS-1-FD	EPA 200.8	20780		
4610691010	1-A-KS-1-F	EPA 200.8	20780		
4610691011	1-A-B-2-FD	EPA 200.8	20780		
4610691012	1-A-B-2-F	EPA 200.8	20780		
4610691013	2-B-WC-L-FD	EPA 200.8	20780		
4610691014	2-B-WC-L-F	EPA 200.8	20780		
4610691015	2-B-WC-R-FD	EPA 200.8	20780		
4610691016	2-B-WC-R-F	EPA 200.8	20780		
4610691017	2-B-B-1-FD	EPA 200.8	20780		
4610691018	2-B-B-1-F	EPA 200.8	20780		
4610691019	2-B-B-4-FD	EPA 200.8	20780		
4610691020	2-B-B-4-F	EPA 200.8	20780		
4610691021	2-B-B-5-FD	EPA 200.8	20781		
4610691022	2-B-B-5-F	EPA 200.8	20781		

REPORT OF LABORATORY ANALYSIS

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OF-CUSTODY / Analytical Request Document

Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

12861#

Section A Required Client Information:		Section C Invoice Information:	
Company: ATC Group Services LLC	Report To: Robert Smith	Attention: Robert Smith	Page: _____ of _____
Address: 45555 Humboldt Drive, Suite 100 Novi, MI 48377	Copy To:	Company Name: ATC Group Services LLC	REGULATORY AGENCY
Email To: robert.smith@atcgs.com	Purchase Order No.:	Address: 45555 Humboldt Drive, Suite 100	
Phone: 248-669-5140 Fax: 248-669-5147	Project Name: Drinking Water Test - DPS Priest	☐ NPDES ☐ GROUND WATER ☒ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER _____	
Requested Due Date/TAT: 10 days	Project Number: 188bs18115	Site Location	
		STATE: MI	

[illegible]

CHAIN-OF-CUSTODY / Analytical Request Document

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

#19322

Section A		Section B		Section C		Section D	
Required Client Information:		Required Project Information:		Invoice Information:		Requested Analysis Filtered (Y/N)	
Company:	ATC Group Services LLC	Report To:	Robert Smith	Attention:	Robert Smith	Company Name:	ATC Group Services LLC
Address:	45555 Humboldt Drive, Suite 100	Copy To:				Address:	45555 Humboldt Drive, Suite 100
	Novi, MI 48377					Pace Quote Reference:	
Email To:	robert.smith@atcgs.com	Purchase Order No.:				Pace Project Manager:	
Phone:	248-669-5140	Project Name:	Drinking Water Test - DPS Priest			Pace Profile #:	
Requested Due Date/TAT:	10 days	Project Number:	188bs18115				

ITEM #	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WI AIR AR OTHER OT TISSUE TS	SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	COLLECTED		SAMPLE TYPE (G=GRAB C=COMP)	MATRIX CODE (see valid codes to left)	DATE	TIME	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS	Temp in °C	Received on (Y/N)	Custody (Y/N)	Sealed Cooler (Y/N)	Samples Intact (Y/N)
			COMPOSITE START	COMPOSITE END/GRAB															
1		2-B-WC-L-FD	DW	G	4/5/18	8:32													
2		2-B-WC-L-F	DW	G	4/5/18	8:33													
3		2-B-WC-R-FD	DW	G	4/5/18	8:30													
4		2-B-WC-R-F	DW	G	4/5/18	8:31													
5		2-B-B-1-FD	DW	G	4/5/18	8:32													
6		2-B-B-1-F	DW	G	4/5/18	8:25													
7		2-B-B-4-FD	DW	G	4/5/18	8:26													
8		2-B-B-4-F	DW	G	4/5/18	8:27													
9		2-B-B-5-FD	DW	G	4/5/18	8:28													
10		2-B-B-5-F	DW	G	4/5/18	8:29													
11																			
12																			

Section E	
SAMPLER NAME AND SIGNATURE	
PRINT Name of SAMPLER: Dominique Greer	DATE Signed (MM/DD/YY): 4/5/18
SIGNATURE of SAMPLER: 	



SAMPLE RECEIVING / LOG-IN CHECKLIST

Client ATC - DRS Priest	Work Order #: 4610691
	New / Add To
Receipt Record Page/Line # (46-45)	Project Chemist
	Sample #s 001-022

Recorded by (initials/date) aw 04/11/18	☒ Cooler ☐ Box ☐ Other	Qty Received 1	☒ IR Gun (#202) ☐ Thermometer Used ☐ Digital Thermometer (#54) ☐ Other (#)	☐ See Additional Cooler Information Form
---	--	--------------------------	--	---

Cooler #	Time	Cooler #	Time	Cooler #	Time	Cooler #	Time	
Pace 280	7323							
Custody Seals: ☒ None ☐ Present / Intact ☐ Present / Not Intact		Custody Seals: ☐ None ☐ Present / Intact ☐ Present / Not Intact		Custody Seals: ☐ None ☐ Present / Intact ☐ Present / Not Intact		Custody Seals: ☐ None ☐ Present / Intact ☐ Present / Not Intact		
Coolant Type: ☐ Loose Ice ☐ Bagged Ice ☐ Blue Ice ☒ None		Coolant Type: ☐ Loose Ice ☐ Bagged Ice ☐ Blue Ice ☐ None		Coolant Type: ☐ Loose Ice ☐ Bagged Ice ☐ Blue Ice ☐ None		Coolant Type: ☐ Loose Ice ☐ Bagged Ice ☐ Blue Ice ☐ None		
Coolant Location: Dispersed / Top / Middle / Bottom		Coolant Location: Dispersed / Top / Middle / Bottom		Coolant Location: Dispersed / Top / Middle / Bottom		Coolant Location: Dispersed / Top / Middle / Bottom		
Temp Blank Present: ☐ Yes ☒ No		Temp Blank Present: ☐ Yes ☐ No		Temp Blank Present: ☐ Yes ☐ No		Temp Blank Present: ☐ Yes ☐ No		
If Present, Temperature Blank Location is: ☐ Representative ☐ Not Representative		If Present, Temperature Blank Location is: ☐ Representative ☐ Not Representative		If Present, Temperature Blank Location is: ☐ Representative ☐ Not Representative		If Present, Temperature Blank Location is: ☐ Representative ☐ Not Representative		
Observed °C	Correction Factor °C	Actual °C	Observed °C	Correction Factor °C	Actual °C	Observed °C	Correction Factor °C	
Temp Blank:			Temp Blank:			Temp Blank:		
Sample 1:			Sample 1:			Sample 1:		
Sample 2:			Sample 2:			Sample 2:		
Sample 3:			Sample 3:			Sample 3:		
3 Sample Average °C: 20.6			3 Sample Average °C:			3 Sample Average °C:		
☐ Cooler ID on COC?			☐ Cooler ID on COC?			☐ Cooler ID on COC?		
☐ VOC Trip Blank received?			☐ VOC Trip Blank received?			☐ VOC Trip Blank received?		

If any shaded areas checked, complete Sample Receiving Non-Conformance and/or Inventory Form

Paperwork Received Yes No ☒ Chain of Custody record(s)? If No, Initiated By _____ ☒ Received for Lab Signed/Date/Time? ☐ Shipping document? ☐ Other _____ COC Information ☒ Pace COC ☐ Other _____ COC ID Numbers: 19321, 19322	Check Sample Preservation N/A Yes No ☐ ☒ ☐ Temperature Blank OR average sample temperature, $\geq 6^{\circ}\text{C}$? ☐ If either is $\geq 6^{\circ}\text{C}$, was thermal preservation required? If "Yes", Project Chemist Approval Initials: _____ If "Yes" Completed Non Con Cooler - Cont Inventory Form? ☐ Completed Sample Preservation Verification Form? ☒ Samples chemically preserved correctly? If "No", added orange tag? ☒ Received pre-preserved VOC soils? ☐ MeOH ☐ Na ₂ SO ₄
--	---

Check COC for Accuracy Yes No ☒ Analysis Requested? ☒ Sample ID matches COC? ☒ Sample Date and Time matches COC? ☒ Container type completed on COC? ☒ All container types indicated are received?	Check for Short Hold-Time Prep/Analyses ☐ Bacteriological ☐ Air Bags ☐ EnCores / Methanol Pre-Preserved ☐ Formaldehyde/Aldehyde ☐ Green-tagged containers ☐ Yellow/White-tagged 1 L Ambers (SV Prep-Lab) AFTER HOURS ONLY: COPIES OF COC TO LAB AREA(S) ☒ NONE RECEIVED ☐ RECEIVED, COCs TO LAB(S)
--	---

Sample Condition Summary N/A Yes No ☒ Broken containers/lids? ☒ Missing or incomplete labels? ☒ Illegible information on labels? ☒ Low volume received? ☒ Inappropriate or non-Pace containers received? ☐ VOC vials / TOX containers have headspace? ☐ Extra sample locations / containers not listed on COC?	Notes ☐ Trip Blank received ☐ Trip Blank not listed on COC Cooler Received (Date/Time) aw 04/11/18 Paperwork Delivered (Date/Time) aw 04/11/18 ≤ 1 Hour Goal Met? Yes / No
---	--

AQUEOUS SAMPLE PRESERVATION VERIFICATION

Client ATC-DPS Priest	Work Order # 4610691
Receipt Log # (46-40)	Completed By (initials/date) aw 04/11/18
Project Manager	

COC ID # 19321						Adjusted by: _____ Date: _____						
Container Type	5 / 23		4		13		⑧		15			
Preservative	NaOH >12		H ₂ SO ₄ <2		H ₂ SO ₄ <2		HNO ₃ <2		HNO ₃ <2			
pH	Received	Adjusted	Received	Adjusted	Received	Adjusted	Received	Adjusted	Received	Adjusted	Received	Adjusted
COC Line #1							✓					
COC Line #2							✓					
COC Line #3							✓					
COC Line #4							✓					
COC Line #5							✓					
COC Line #6							✓					
COC Line #7							✓					
COC Line #8							✓					
COC Line #9							✓					
COC Line #10							✓					
COC Line #11							✓					
COC Line #12							✓					

Comments:

pH Strip
Reagent or Lot #

☒ **HC727135**

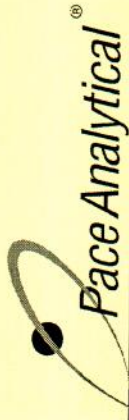
☐ **Other**

Place a check mark in the Received box if pH is acceptable. If pH is not acceptable, document the Received and Adjusted pH values in the appropriate columns (all adjustments must be reviewed by the project manager). Never add more than 2x the default preservation volume (see table below for default volumes). Complete and attach an orange preservation tag to all adjusted samples. A Sample Receiving Non-Conformance Report must be completed if a pH adjustment was required.

COC ID # 19322						Adjusted by: _____ Date: _____						
Container Type	5 / 23		4		13		⑧		15			
Preservative	NaOH >12		H ₂ SO ₄ <2		H ₂ SO ₄ <2		HNO ₃ <2		HNO ₃ <2			
pH	Received	Adjusted	Received	Adjusted	Received	Adjusted	Received	Adjusted	Received	Adjusted	Received	Adjusted
COC Line #1							✓					
COC Line #2							✓					
COC Line #3							✓					
COC Line #4							✓					
COC Line #5							✓					
COC Line #6							✓					
COC Line #7							✓					
COC Line #8							✓					
COC Line #9							* ✓					
COC Line #10							* ✓					
COC Line #11												
COC Line #12												

Comments: *** See Non-Conformance**

Container Size (mL)	Default Preservative Volume (mL)
Container Types 5 / 23	NaOH
250	1.3
Container Type 4	H ₂ SO ₄
125	0.5
250	1.0
500	2.0
1000	4.0
Container Type 13	H ₂ SO ₄
500	2.5
Container Types 6 / 15	HNO ₃
125	0.7
250	1.25
500	2.5
1000	5.0



SAMPLE RECEIVING NON-CONFORMANCE REPORT

Client ATC-DPS Priest (46-40)	Work Order # 464610691
Receipt Log # 46-40	Project Chemist AW 5/11/18
Completed By (initials/date) AW 5/11/18	

List non-conformance issues associated with this work order in the chart below/left. Identify discrepancies between the COC and sample tags in the chart below/right. Add comments as needed.

COC ID #	Line #	Type of Problem										COC				Sample Tag				Line Item Comments		
		Discrepancy	Missing Container	Broken Container	Label Missing / Incomplete	Label Illegible	Low Volume	Inappropriate Container	Headspace	Not Listed on COC	Preservation	Sample Field ID	Date Sampled	Time Sampled	Container Type	Qty	Sample Field ID	Date Sampled	Time Sampled		Container Type	Qty
	19322	8	X									2-B-B-5-F	8:29	8:29			1-B-B-5-FD					Temp = 20.6
		9	X									2-B-B-5-FD	8:28	8:29			1-B-B-5-FD					Dont know which container is which...
		8	X									2-B-B-4-F					1-B-B-4-F					
		7	X									2-B-B-4-FD					1-B-B-4-FD					

General Comments: Most Containers are off a few minutes from what is on Container in Comparison with the COC.	Project Chemist (Initials/date)
--	---------------------------------