



April 26, 2018

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

RE: Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

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

Composition

(616)940-4206 Project Manager

Enclosures

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







CERTIFICATIONS

Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

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



SAMPLE SUMMARY

Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4610697001	1-106-B	Drinking Water	04/05/18 16:55	04/11/18 17:58
4610697002	1-116-CF	Drinking Water	04/05/18 16:45	04/11/18 17:58
4610697003	2-C-B-2	Drinking Water	04/05/18 17:10	04/11/18 17:58
4610697004	1-114-CF-1	Drinking Water	04/05/18 16:32	04/11/18 17:58
4610697005	1-121-KS-1	Drinking Water	04/05/18 17:04	04/11/18 17:58
4610697006	1-111-CF-1	Drinking Water	04/05/18 16:42	04/11/18 17:58
4610697007	1-A-B-3	Drinking Water	04/05/18 16:38	04/11/18 17:58
4610697008	1-B-B-3	Drinking Water	04/05/18 16:53	04/11/18 17:58
4610697009	1-A-B-1	Drinking Water	04/05/18 16:31	04/11/18 17:58
4610697010	1-113-CF-1	Drinking Water	04/05/18 16:41	04/11/18 17:58
4610697011	1-A-B-4	Drinking Water	04/05/18 16:39	04/11/18 17:58
4610697012	1-121-KS-3	Drinking Water	04/05/18 17:04	04/11/18 17:58
4610697013	1-B-B-1	Drinking Water	04/05/18 16:58	04/11/18 17:58
4610697014	1-110-CF-1	Drinking Water	04/05/18 16:49	04/11/18 17:58
4610697015	2-C-B-1	Drinking Water	04/05/18 17:10	04/11/18 17:58
4610697016	1-105-CF-1	Drinking Water	04/05/18 17:00	04/11/18 17:58
4610697017	1-108-CF	Drinking Water	04/05/18 16:53	04/11/18 17:58
4610697018	1-120-CF-1	Drinking Water	04/05/18 16:40	04/11/18 17:58
4610697019	1-101-CF-1	Drinking Water	04/05/18 17:00	04/11/18 17:58
4610697020	1-121-KS-2	Drinking Water	04/05/18 17:05	04/11/18 17:58
4610697021	2-D-B-2	Drinking Water	04/05/18 17:15	04/11/18 17:58
4610697022	2-D-B-1	Drinking Water	04/05/18 17:13	04/11/18 17:58
4610697023	1-100-B	Drinking Water	04/05/18 17:02	04/11/18 17:58
4610697024	1-110-B	Drinking Water	04/05/18 16:48	04/11/18 17:58
4610697025	1-110-CF-2	Drinking Water	04/05/18 16:50	04/11/18 17:58
4610697026	1-117A-OF	Drinking Water	04/05/18 16:32	04/11/18 17:58
4610697027	2-C-B-3	Drinking Water	04/05/18 17:07	04/11/18 17:58
4610697028	2-C-B-4	Drinking Water	04/05/18 17:08	04/11/18 17:58



SAMPLE ANALYTE COUNT

Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

E10697002	Lab ID	Sample ID	Method	Analysts	Analytes Reported
610697003 2-C-B-2 EPA 200.8 DWJ 2 610697004 1-114-CF-1 EPA 200.8 DWJ 2 610697005 1-121-KS-1 EPA 200.8 DWJ 2 610697006 1-111-CF-1 EPA 200.8 DWJ 2 610697007 1-AB-3 EPA 200.8 DWJ 2 610697008 1-B-B-3 EPA 200.8 DWJ 2 610697009 1-AB-1 EPA 200.8 DWJ 2 610697010 1-113-CF-1 EPA 200.8 DWJ 2 610697011 1-AB-4 EPA 200.8 DWJ 2 610697012 1-121-KS-3 EPA 200.8 DWJ 2 610697013 1-B-B-1 EPA 200.8 DWJ 2 610697015 2-C-B-1 EPA 200.8 DWJ 2 610697017 1-108-CF EPA 200.8 DWJ 2 610697018 1-120-CF-1 EPA 200.8 DWJ 2 610697021 2-D-B-2 EPA 200.8	4610697001	1-106-B	EPA 200.8	DWJ	2
610697004 1-114-CF-1 EPA 200.8 DWJ 2 610697005 1-121-KS-1 EPA 200.8 DWJ 2 610697006 1-111-CF-1 EPA 200.8 DWJ 2 610697007 1-A-B-3 EPA 200.8 DWJ 2 610697009 1-B-B-3 EPA 200.8 DWJ 2 610697010 1-13-CF-1 EPA 200.8 DWJ 2 610697011 1-A-B-4 EPA 200.8 DWJ 2 610697012 1-12-KS-3 EPA 200.8 DWJ 2 610697013 1-B-B-1 EPA 200.8 DWJ 2 610697014 1-110-CF-1 EPA 200.8 DWJ 2 610697015 2-C-B-1 EPA 200.8 DWJ 2 610697017 1-108-CF EPA 200.8 DWJ 2 610697018 1-120-CF-1 EPA 200.8 DWJ 2 610697019 1-101-CF-1 EPA 200.8 DWJ 2 610697021 2-D-B-2 EPA 200.8	4610697002	1-116-CF	EPA 200.8	DWJ	2
610697005 1-121-KS-1 EPA 200.8 DWJ 2 610697006 1-111-CF-1 EPA 200.8 DWJ 2 610697007 1-AB-3 EPA 200.8 DWJ 2 610697008 1-BB-3 EPA 200.8 DWJ 2 610697009 1-AB-1 EPA 200.8 DWJ 2 610697010 1-113-CF-1 EPA 200.8 DWJ 2 610697011 1-AB-4 EPA 200.8 DWJ 2 610697012 1-121-KS-3 EPA 200.8 DWJ 2 610697013 1-BB-1 EPA 200.8 DWJ 2 610697014 1-110-CF-1 EPA 200.8 DWJ 2 610697015 2-C-B-1 EPA 200.8 DWJ 2 610697016 1-105-CF-1 EPA 200.8 DWJ 2 610697017 1-108-CF EPA 200.8 DWJ 2 610697018 1-120-CF-1 EPA 200.8 DWJ 2 610697021 2-D-B-2 EPA 200.8 DWJ 2 610697022 2-D-B-1 EPA 200.8 DWJ </td <td>4610697003</td> <td>2-C-B-2</td> <td>EPA 200.8</td> <td>DWJ</td> <td>2</td>	4610697003	2-C-B-2	EPA 200.8	DWJ	2
610697006 1-111-CF-1 EPA 200.8 DWJ 2 610697007 1-A-B-3 EPA 200.8 DWJ 2 610697008 1-B-B-3 EPA 200.8 DWJ 2 610697019 1-A-B-1 EPA 200.8 DWJ 2 610697011 1-A-B-4 EPA 200.8 DWJ 2 610697012 1-121-KS-3 EPA 200.8 DWJ 2 610697013 1-B-B-1 EPA 200.8 DWJ 2 610697014 1-110-CF-1 EPA 200.8 DWJ 2 610697015 2-C-B-1 EPA 200.8 DWJ 2 610697016 1-105-CF-1 EPA 200.8 DWJ 2 610697017 1-108-CF EPA 200.8 DWJ 2 610697018 1-120-CF-1 EPA 200.8 DWJ 2 610697019 1-101-CF-1 EPA 200.8 DWJ 2 610697020 1-121-KS-2 EPA 200.8 DWJ 2 610697021 2-D-B-2 EPA 200.8	4610697004	1-114-CF-1	EPA 200.8	DWJ	2
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610697008 1-B-B-3 EPA 200.8 DWJ 2 610697009 1-A-B-1 EPA 200.8 DWJ 2 610697010 1-113-CF-1 EPA 200.8 DWJ 2 610697011 1-A-B-4 EPA 200.8 DWJ 2 610697012 1-121-KS-3 EPA 200.8 DWJ 2 610697013 1-B-B-1 EPA 200.8 DWJ 2 610697014 1-110-CF-1 EPA 200.8 DWJ 2 610697015 2-C-B-1 EPA 200.8 DWJ 2 610697016 1-105-CF-1 EPA 200.8 DWJ 2 610697017 1-108-CF EPA 200.8 DWJ 2 610697018 1-120-CF-1 EPA 200.8 DWJ 2 610697020 1-121-KS-2 EPA 200.8 DWJ 2 610697021 2-D-B-2 EPA 200.8 DWJ 2 610697022 2-D-B-1 EPA 200.8 DWJ 2 610697023 1-100-B EPA 200.8 DWJ 2 610697024 1-110-B EPA 200.8 DWJ	4610697006	1-111-CF-1	EPA 200.8	DWJ	2
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610697014 1-110-CF-1 EPA 200.8 DWJ 2 610697015 2-C-B-1 EPA 200.8 DWJ 2 610697016 1-105-CF-1 EPA 200.8 DWJ 2 610697017 1-108-CF EPA 200.8 DWJ 2 610697018 1-120-CF-1 EPA 200.8 DWJ 2 610697019 1-101-CF-1 EPA 200.8 DWJ 2 610697020 1-121-KS-2 EPA 200.8 DWJ 2 610697021 2-D-B-2 EPA 200.8 DWJ 2 610697022 2-D-B-1 EPA 200.8 DWJ 2 610697023 1-100-B EPA 200.8 DWJ 2 610697024 1-110-B EPA 200.8 DWJ 2 610697025 1-110-CF-2 EPA 200.8 DWJ 2 610697026 1-117A-OF EPA 200.8 DWJ 2 610697027 2-C-B-3 EPA 200.8 DWJ 2	4610697012	1-121-KS-3	EPA 200.8	DWJ	2
610697015 2-C-B-1 EPA 200.8 DWJ 2 610697016 1-105-CF-1 EPA 200.8 DWJ 2 610697017 1-108-CF EPA 200.8 DWJ 2 610697018 1-120-CF-1 EPA 200.8 DWJ 2 610697019 1-101-CF-1 EPA 200.8 DWJ 2 610697020 1-121-KS-2 EPA 200.8 DWJ 2 610697021 2-D-B-2 EPA 200.8 DWJ 2 610697022 2-D-B-1 EPA 200.8 DWJ 2 610697023 1-100-B EPA 200.8 DWJ 2 610697024 1-110-B EPA 200.8 DWJ 2 610697025 1-110-CF-2 EPA 200.8 DWJ 2 610697026 1-117A-OF EPA 200.8 DWJ 2 610697027 2-C-B-3 EPA 200.8 DWJ 2	4610697013	1-B-B-1	EPA 200.8	DWJ	2
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610697018 1-120-CF-1 EPA 200.8 DWJ 2 610697019 1-101-CF-1 EPA 200.8 DWJ 2 610697020 1-121-KS-2 EPA 200.8 DWJ 2 610697021 2-D-B-2 EPA 200.8 DWJ 2 610697022 2-D-B-1 EPA 200.8 DWJ 2 610697023 1-100-B EPA 200.8 DWJ 2 610697024 1-110-B EPA 200.8 DWJ 2 610697025 1-110-CF-2 EPA 200.8 DWJ 2 610697026 1-117A-OF EPA 200.8 DWJ 2 610697027 2-C-B-3 EPA 200.8 DWJ 2	4610697016	1-105-CF-1	EPA 200.8	DWJ	2
610697019 1-101-CF-1 EPA 200.8 DWJ 2 610697020 1-121-KS-2 EPA 200.8 DWJ 2 610697021 2-D-B-2 EPA 200.8 DWJ 2 610697022 2-D-B-1 EPA 200.8 DWJ 2 610697023 1-100-B EPA 200.8 DWJ 2 610697024 1-110-B EPA 200.8 DWJ 2 610697025 1-110-CF-2 EPA 200.8 DWJ 2 610697026 1-117A-OF EPA 200.8 DWJ 2 610697027 2-C-B-3 EPA 200.8 DWJ 2	4610697017	1-108-CF	EPA 200.8	DWJ	2
610697020 1-121-KS-2 EPA 200.8 DWJ 2 610697021 2-D-B-2 EPA 200.8 DWJ 2 610697022 2-D-B-1 EPA 200.8 DWJ 2 610697023 1-100-B EPA 200.8 DWJ 2 610697024 1-110-B EPA 200.8 DWJ 2 610697025 1-110-CF-2 EPA 200.8 DWJ 2 610697026 1-117A-OF EPA 200.8 DWJ 2 610697027 2-C-B-3 EPA 200.8 DWJ 2	4610697018	1-120-CF-1	EPA 200.8	DWJ	2
610697021 2-D-B-2 EPA 200.8 DWJ 2 610697022 2-D-B-1 EPA 200.8 DWJ 2 610697023 1-100-B EPA 200.8 DWJ 2 610697024 1-110-B EPA 200.8 DWJ 2 610697025 1-110-CF-2 EPA 200.8 DWJ 2 610697026 1-117A-OF EPA 200.8 DWJ 2 610697027 2-C-B-3 EPA 200.8 DWJ 2	4610697019	1-101-CF-1	EPA 200.8	DWJ	2
610697022 2-D-B-1 EPA 200.8 DWJ 2 610697023 1-100-B EPA 200.8 DWJ 2 610697024 1-110-B EPA 200.8 DWJ 2 610697025 1-110-CF-2 EPA 200.8 DWJ 2 610697026 1-117A-OF EPA 200.8 DWJ 2 610697027 2-C-B-3 EPA 200.8 DWJ 2	4610697020	1-121-KS-2	EPA 200.8	DWJ	2
610697023 1-100-B EPA 200.8 DWJ 2 610697024 1-110-B EPA 200.8 DWJ 2 610697025 1-110-CF-2 EPA 200.8 DWJ 2 610697026 1-117A-OF EPA 200.8 DWJ 2 610697027 2-C-B-3 EPA 200.8 DWJ 2	4610697021	2-D-B-2	EPA 200.8	DWJ	2
610697024 1-110-B EPA 200.8 DWJ 2 610697025 1-110-CF-2 EPA 200.8 DWJ 2 610697026 1-117A-OF EPA 200.8 DWJ 2 610697027 2-C-B-3 EPA 200.8 DWJ 2	4610697022	2-D-B-1	EPA 200.8	DWJ	2
610697025 1-110-CF-2 EPA 200.8 DWJ 2 610697026 1-117A-OF EPA 200.8 DWJ 2 610697027 2-C-B-3 EPA 200.8 DWJ 2	4610697023	1-100-B	EPA 200.8	DWJ	2
610697026 1-117A-OF EPA 200.8 DWJ 2 610697027 2-C-B-3 EPA 200.8 DWJ 2	4610697024	1-110-B	EPA 200.8	DWJ	2
610697027 2-C-B-3 EPA 200.8 DWJ 2	4610697025	1-110-CF-2	EPA 200.8	DWJ	2
	4610697026	1-117A-OF	EPA 200.8	DWJ	2
610697028 2-C-B-4 EPA 200.8 DSC 2	4610697027	2-C-B-3	EPA 200.8	DWJ	2
	610697028	2-C-B-4	EPA 200.8	DSC	2



Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-106-B	Lab ID: 4610697001		Collected: 04/05/18 16:55			Received: 04	/11/18 17:58 M	atrix: 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	1530	ug/L	25.0	1300	25		04/25/18 14:35	7440-50-8	
Lead	9.8	ug/L	1.0	15	1		04/25/18 12:32	7439-92-1	



Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-116-CF	1-116-CF Lab ID: 4610697002			Collected: 04/05/18 16:45			/11/18 17:58 Ma	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 Lead	410 9.5	ug/L ug/L	5.0 1.0	1300 15	5 1		04/25/18 14:37 04/25/18 12:33		



Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 2-C-B-2	Lab ID: 4610697003		Collected: 04/05/18 17:10			Received: 04	/11/18 17:58 Ma	1/18 17:58 Matrix: Drinking Wa	
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	92.0	ug/L	5.0	1300	5		04/25/18 14:38	7440-50-8	
Lead	1.7	ug/L	1.0	15	1		04/25/18 12:35	7439-92-1	



Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-114-CF-1	mple: 1-114-CF-1 Lab ID: 4610697004			d: 04/05/18	3 16:32	Received: 04	/11/18 17:58 Ma	atrix: Drinking \	Nater
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 Lead	934 98.7	ug/L ug/L	10.0 1.0	1300 15	10 1		04/25/18 14:44 04/25/18 12:40		



Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-121-KS-1	Lab ID:	Lab ID: 4610697005		Collected: 04/05/18 17:04			/11/18 17:58 Ma	atrix: Drinking \	Vater
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 Lead	959 14.7	ug/L ug/L	10.0 1.0	1300 15	10 1		04/25/18 14:48 04/25/18 12:42		



Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-111-CF-1	Lab ID: 4610697006		Collecte	d: 04/05/18	3 16:42	Received: 04	/11/18 17:58 Ma	atrix: 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 Lead	1400 74.6	ug/L ug/L	25.0 1.0	1300 15	25 1		04/25/18 14:50 04/25/18 12:43		



Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-A-B-3	ample: 1-A-B-3 Lab ID: 4610697007			Collected: 04/05/18 16:38			/11/18 17:58 Ma	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 Lead	117 1.9	ug/L ug/L	5.0 1.0	1300 15	5 1		04/25/18 14:51 04/25/18 12:48		



Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-B-B-3	mple: 1-B-B-3 Lab ID: 4610697008			Collected: 04/05/18 16:53			/11/18 17:58 Ma	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 Lead	251 33.4	ug/L ug/L	5.0 1.0	1300 15	5 1		04/25/18 14:53 04/25/18 12:52		



Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-A-B-1	Sample: 1-A-B-1 Lab ID: 4610697009			Collected: 04/05/18 16:31			/11/18 17:58 Ma	trix: Drinking \	Vater
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 Lead	54.8 2.8	ug/L ug/L	1.0 1.0	1300 15	1 1		04/25/18 12:54 04/25/18 12:54		



Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-113-CF-1	Lab ID: 4610697010		Collecte	d: 04/05/18	3 16:41	Received: 04	/11/18 17:58 Ma	atrix: 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 Lead	524 5.4	ug/L ug/L	10.0 1.0	1300 15	10 1		04/25/18 14:54 04/25/18 12:55		



Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Jnits	Report Limit	Reg. Limit	DF	Prepared	Analyzad	0404	
				Fiepaieu	Analyzed	CAS No.	Qual
hod: EPA 2	200.8						
J	1.0	1300	1				
	ug/L ug/L	ug/L 1.0 ug/L 1.0			3	3	



Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-121-KS-3	Lab ID:	4610697012	Collecte	d: 04/05/18	3 17:04	Received: 04	/11/18 17:58 Ma	atrix: 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 Lead	571 4.8	ug/L ug/L	10.0 1.0	1300 15	10 1		04/25/18 14:56 04/25/18 12:58		



Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-B-B-1	Lab ID:	4610697013	Collecte	d: 04/05/18	3 16:58	Received: 04	/11/18 17:58 Ma	atrix: Drinking \	Nater
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 Lead	150 3.4	ug/L ug/L	5.0 1.0	1300 15	5 1		04/25/18 14:57 04/25/18 12:59		



Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-110-CF-1	Lab ID:	4610697014	Collected	d: 04/05/18	3 16:49	Received: 04	/11/18 17:58 Ma	atrix: 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 Lead	1010 45.8	ug/L ug/L	25.0 1.0	1300 15	25 1		04/25/18 15:35 04/25/18 13:01		



Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 2-C-B-1	Lab ID:	4610697015	Collecte	d: 04/05/18	3 17:10	Received: 04	/11/18 17:58 Ma	atrix: Drinking \	Vater
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	89.1	ug/L	1.0	1300	1		04/25/18 13:14	7440-50-8	
Lead	1.2	ug/L	1.0	15	1		04/25/18 13:14	7439-92-1	



Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-105-CF-1	Lab ID:	4610697016	Collecte	d: 04/05/18	3 17:00	Received: 04	/11/18 17:58 Ma	atrix: Drinking \	Vater
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 Lead	636 27.4	ug/L ug/L	10.0 1.0	1300 15	10 1		04/25/18 15:07 04/25/18 13:16		



Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-108-CF	Lab ID:	4610697017	Collecte	d: 04/05/18	3 16:53	Received: 04	/11/18 17:58 Ma	atrix: Drinking \	Vater
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 Lead	794 103	ug/L ug/L	10.0 10.0	1300 15	10 10		04/25/18 15:09 04/25/18 15:09		



Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-120-CF-1	Lab ID:	4610697018	Collected	d: 04/05/18	3 16:40	Received: 04/	11/18 17:58 Ma	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 Lead	590 38.1	ug/L ug/L	10.0 1.0	1300 15	10 1		04/25/18 15:12 04/25/18 13:18		



Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-101-CF-1	Lab ID:	4610697019	Collecte	d: 04/05/18	3 17:00	Received: 04	/11/18 17:58 Ma	atrix: Drinking \	Nater
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	247	ug/L	5.0	1300	5		04/25/18 15:14	7440-50-8	
Lead	10.3	ug/L	1.0	15	1		04/25/18 13:20	7439-92-1	



Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-121-KS-2	Lab ID:	4610697020	Collecte	d: 04/05/18	3 17:05	Received: 04	/11/18 17:58 Ma	atrix: Drinking \	Vater
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 Lead	535 9.6	ug/L ug/L	10.0 1.0	1300 15	10 1		04/25/18 15:15 04/25/18 13:21		



Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 2-D-B-2	Lab ID:	4610697021	Collecte	d: 04/05/18	3 17:15	Received: 04	/11/18 17:58 Ma	atrix: Drinking \	Vater
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	310	ug/L	5.0	1300	5		04/25/18 15:16	7440-50-8	
Lead	1.6	ug/L	1.0	15	1		04/25/18 13:23	7439-92-1	



Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 2-D-B-1	Lab ID:	4610697022	Collecte	d: 04/05/18	3 17:13	Received: 04	/11/18 17:58 Ma	atrix: 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 Lead	392 2.4	ug/L ug/L	5.0 1.0	1300 15	5		04/25/18 15:18 04/25/18 13:27		



Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-100-B	Lab ID:	4610697023	Collected: 04/05/18 17:02			Received: 04	/11/18 17:58 Ma	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 Lead	438 35.8	ug/L ug/L	10.0 1.0	1300 15	10 1		04/25/18 15:19 04/25/18 13:29			



Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-110-B	Lab ID:	4610697024	Collected: 04/05/18 16:48			Received: 04	/11/18 17:58 Ma	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 Lead	501 <1.0	ug/L ug/L	10.0 1.0	1300 15	10 1		04/25/18 15:29 04/25/18 13:34			



Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-110-CF-2	Lab ID:	4610697025	Collected: 04/05/18 16:50			Received: 04/	/11/18 17:58 Ma	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 Lead	348 2.1	ug/L ug/L	5.0 1.0	1300 15	5 1		04/25/18 15:30 04/25/18 13:36			



Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 1-117A-OF	Lab ID:	4610697026	Collected: 04/05/18 16:32			Received: 04	/11/18 17:58 Ma	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 Lead	956 4.5	ug/L ug/L	10.0 1.0	1300 15	10 1		04/25/18 15:32 04/25/18 13:37			



Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 2-C-B-3	Lab ID:	4610697027	Collected: 04/05/18 17:07			Received: 04	/11/18 17:58 Ma	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 Lead	103 1.6	ug/L ug/L	5.0 1.0	1300 15	5 1		04/25/18 15:33 04/25/18 13:39			



Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Sample: 2-C-B-4	Lab ID:	4610697028	Collected: 04/05/18 17:08			Received: 04	/11/18 17:58 Ma	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 Lead	151 3.4	ug/L ug/L	5.0 1.0	1300 15	5 1		04/16/18 13:02 04/16/18 09:31			



QUALITY CONTROL DATA

Project: Drinking Water Testing - Bow

Pace Project No.:

4610697

QC Batch:

20423

QC Batch Method:

Copper

Copper

Lead

Lead

EPA 200.8

Analysis Method:

EPA 200.8

Analysis Description:

ICPMS Metals, No Prep

Qualifiers

Associated Lab Samples: 4610697028

METHOD BLANK: 81496

Date: 04/26/2018 01:40 PM

Matrix: Water

Associated Lab Samples: 4610697028

Parameter

Blank

Reporting

Result <1.0

Units

ug/L

ug/L

Limit Analyzed 1.0 04/16/18 09:12

1.0 04/16/18 09:12

LABORATORY CONTROL SAMPLE: 81497

> Spike LCS LCS % Rec Parameter Units Conc. Result % Rec Limits Qualifiers ug/L 20 20.6 103 85-115 ug/L 20 20.2 101 85-115

<1.0

MATRIX SPIKE & MATRIX SPIK	(E DUPLIC	CATE: 81498			81499							
		4040500004	MS	MSD	MC	MCD	MC	MCD	0/ Daa		Mari	
		4610560001	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Copper	ug/L	0.0033 mg/L	20	20	22.3	23.7	95	102	70-130	6	20	
Lead	ug/L	<0.0010 mg/L	20	20	19.5	21.4	97	107	70-130	9	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.



QUALITY CONTROL DATA

Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

QC Batch: 21233 Analysis Method: EPA 200.8

QC Batch Method: EPA 200.8 Analysis Description: ICPMS Metals, No Prep

Associated Lab Samples: 4610697001, 4610697002, 4610697003, 4610697004, 4610697005, 4610697006, 4610697007

METHOD BLANK: 84616 Matrix: Water

Associated Lab Samples: 4610697001, 4610697002, 4610697003, 4610697004, 4610697005, 4610697006, 4610697007

Blank Reporting
Parameter Units Result Limit

 Parameter
 Units
 Result
 Limit
 Analyzed
 Qualifiers

 Copper
 ug/L
 <1.0</td>
 1.0
 04/25/18 11:59

 Lead
 ug/L
 <1.0</td>
 1.0
 04/25/18 11:59

LABORATORY CONTROL SAMPLE: 84617

Date: 04/26/2018 01:40 PM

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L		20.5	103	85-115	
Lead	ug/L	20	21.0	105	85-115	

MATRIX SPIKE & MATRIX SPIK	(E DUPLIC	CATE: 84618			84619							
			MS	MSD								
		4610696019	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Copper	ug/L	533	200	200	756	749	111	108	70-130	1	20	
Lead	ug/L	52.5	20	20	73.4	73.0	104	102	70-130	1	20	

MATRIX SPIKE & MATRIX SPIK	E DUPLIC	CATE: 84621			84622							
			MS	MSD								
		4610697003	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Parameter	Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Copper	ug/L	92.0	100	100	204	198	112	106	70-130	3	20	
Lead	ug/L	1.7	20	20	22.6	22.2	105	103	70-130	2	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.



QUALITY CONTROL DATA

Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Date: 04/26/2018 01:40 PM

QC Batch: 21234 Analysis Method: EPA 200.8

QC Batch Method: EPA 200.8 Analysis Description: ICPMS Metals, No Prep

Associated Lab Samples: 4610697008, 4610697009, 4610697010, 4610697011, 4610697012, 4610697013, 4610697014, 4610697015,

4610697016, 4610697017, 4610697018, 4610697019, 4610697020, 4610697021, 4610697022, 4610697023,

4610697024, 4610697025, 4610697026, 4610697027

METHOD BLANK: 84624 Matrix: Water

Associated Lab Samples: 4610697008, 4610697009, 4610697010, 4610697011, 4610697012, 4610697013, 4610697014, 4610697015,

4610697016, 4610697017, 4610697018, 4610697019, 4610697020, 4610697021, 4610697022, 4610697023,

4610697024, 4610697025, 4610697026, 4610697027

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<1.0	1.0	04/25/18 12:49	
Lead	ug/L	<1.0	1.0	04/25/18 12:49	

LABORATORY CO	NTROL SAMPLE: 84	4625										
			Spike	LCS	;	LCS	% Red	;				
Paran	neter	Units	Conc.	Resu	lt	% Rec	Limits	Qι	ıalifiers			
Copper		ug/L	20		21.7	109	85	 5-115				
Lead		ug/L	20		20.0	100	85	5-115				
MATRIX SPIKE & M	MATRIX SPIKE DUPLIC	CATE: 84626			84627							
			MS	MSD								
		4610697014	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramete	er Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Copper	ug/L	1010	500	500	1540	1570	106	112	70-130	2	20	
Lead	ug/L	45.8	20	20	65.3	66.7	98	104	70-130	2	20	
MATRIX SPIKE & M	MATRIX SPIKE DUPLIC	CATE: 84629			84630							
			MS	MSD								
		4610697023	Spike	Spike	MS	MSD	MS	MSD	% Rec		Max	
Paramete	er Units	Result	Conc.	Conc.	Result	Result	% Rec	% Rec	Limits	RPD	RPD	Qual
Copper	ug/L	438	200	200	643	637	102	99	70-130	1	20	
Lead	ug/L	35.8	20	20	55.7	55.5	100	99	70-130	0	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.



QUALIFIERS

Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

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.

Date: 04/26/2018 01:40 PM



QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Drinking Water Testing - Bow

Pace Project No.: 4610697

Date: 04/26/2018 01:40 PM

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4610697001	1-106-B	EPA 200.8	21233		
4610697002	1-116-CF	EPA 200.8	21233		
4610697003	2-C-B-2	EPA 200.8	21233		
4610697004	1-114-CF-1	EPA 200.8	21233		
4610697005	1-121-KS-1	EPA 200.8	21233		
4610697006	1-111-CF-1	EPA 200.8	21233		
4610697007	1-A-B-3	EPA 200.8	21233		
4610697008	1-B-B-3	EPA 200.8	21234		
4610697009	1-A-B-1	EPA 200.8	21234		
4610697010	1-113-CF-1	EPA 200.8	21234		
4610697011	1-A-B-4	EPA 200.8	21234		
4610697012	1-121-KS-3	EPA 200.8	21234		
4610697013	1-B-B-1	EPA 200.8	21234		
4610697014	1-110-CF-1	EPA 200.8	21234		
4610697015	2-C-B-1	EPA 200.8	21234		
4610697016	1-105-CF-1	EPA 200.8	21234		
4610697017	1-108-CF	EPA 200.8	21234		
4610697018	1-120-CF-1	EPA 200.8	21234		
4610697019	1-101-CF-1	EPA 200.8	21234		
4610697020	1-121-KS-2	EPA 200.8	21234		
4610697021	2-D-B-2	EPA 200.8	21234		
4610697022	2-D-B-1	EPA 200.8	21234		
4610697023	1-100-B	EPA 200.8	21234		
4610697024	1-110-B	EPA 200.8	21234		
4610697025	1-110-CF-2	EPA 200.8	21234		
4610697026	1-117A-OF	EPA 200.8	21234		
4610697027	2-C-B-3	EPA 200.8	21234		
4610697028	2-C-B-4	EPA 200.8	20423		

#19329

-OF-CUSTODY / Analytical Request Document Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.

WO#:4610697

Pace Analytical"

Pace Project No./ Lab I.D. DRINKING WATER OTHER 1005 200 -007 500 SOS 507 1 3 I GROUND WATER Residual Chlorine (Y/N) Page: REGULATORY AGENCY Ξ RCRA Requested Analysis Filtered (Y/N) STATE: Site Location NPDES UST no 80 Analysis Test TN/A Other Methanol Preservatives Na2S2O3 NaOH HCI nvoice Information 4NO3 Company Name: Manager. Pace Profile #: OS2H Section C Pace Quote Reference: Pace Project Address: Unpreserved # OF CONTAINERS SAMPLE TEMP AT COLLECTION TIME COMPOSITE Bow Elementary-Middle School COLLECTED DATE 4:32pm TIME 4:55pm 4:45pm 5:10pm 5:04pm 4:42pm 4:53pm 4:38pm COMPOSITE Project Number. 188bs18112 DATE 4/5/18 4/5/18 4/5/18 4/5/18 4/5/18 4/5/18 4/5/18 4/5/18 Report To: Rob Smith (G=GRAB C=COMP) SAMPLE TYPE C O O O O O Ö O urchase Order No. (see valid codes to left) MO MO DW MO MO NO NO DW MATRIX CODE roject Name: Copy To: Valid Matrix Codes DW WWW WWW SEL OOL OOL OOL OOT TS DRINKING WATER D
WATER V
WASTE WATER V
PRODUCT P
SOIL/SOLID S AIR OTHER TISSUE OIL 46555 Humboldt Dr. Ste 100, Robert.Smith@ATCGS.com 1-114-CF-1 1-121-KS-1 1-111-CF-1 1-116-CF 1-B-B-3 2-C-B-2 1-A-B-3 (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE 10 Days ATC Group Services SAMPLE ID Novi Mi. 48377 Required Client Information hone: 1 248 669 5140 Required Client Information: Requested Due Date/TAT: Section D Company: Address: Email To: # MHLI 2 3 4 2 9

DATE Signed (MM/DD/YY): invoices not paid within 30 day PRINT Name of SAMPLER: Craig Demshuk 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 Jargary SIGNATURE of SAMPLER:

SAMPLER NAME AND SIGNATURE

Page 38 of 44

F-ALL-Q-020rev.08, 12-Oct-2007

(N/A)

(N/A) Sealed Cooler Custody

(V/V) eol

Received on

J. ui dwaT

4/6/18

SAMPLE CONDITIONS

死 TIME

X/1/K

DATE

ACCEPTED BY / AFFILIATION

TIME 30

DATE

RELINQUISHED BY / AFFILIATION

5:04pm

4/5/18

MO

1-121-KS-3

ADDITIONAL COMMENTS

1-A-B-4

4:39pm

4/5/18

O O

MO

4:31pm 4:41pm

4/5/18

0

DW

4/5/18

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Pace Analytical" WOH 4 (6) (0) 97

CHAIN-OF-CUSTODY / Analytical Request Document

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

#19330

Pace Project No./ Lab I.D. DRINKING WATER SAMPLE CONDITIONS 3 OTHER 9101 -013 401 40 810 30 V101 610 200--023 2 120-18-ch GROUND WATER Residual Chlorine (Y/N) Page: REGULATORY AGENCY Ξ RCRA Requested Analysis Filtered (Y/N) TIME JUK 1305 D STATE: Site Location I NPDES DATE UST П ACCEPTED BY / AFFILIATION × × × × no × B TN/A thasiysis Test Other Methanol Preservatives Na₂S₂O₃ NaOH HCI nvoice Information: EONH Company Name: Pace Quote Reference: Pace Project Manager: Pace Profile #: 42SO4 Section C Uppreserved TIME Address: 365 # OF CONTAINERS SAMPLE TEMP AT COLLECTION 8/11/18 DATE TIME COMPOSITE END/GRAB Bow Elementary-Middle School COLLECTED DATE RELINQUISHED BY / AFFILIATION 4:40pm 5:00pm 5:02pm 4:58pm 4:49pm 5:10pm 4:53pm 5:00pm 5:05pm 5:13pm TIME 5:15pm 4:48pm COMPOSITE Project Number: 188bs18112 4/5/18 4/5/18 4/5/18 4/5/18 DATE 4/5/18 4/5/18 4/5/18 4/5/18 4/5/18 4/5/18 4/5/18 4/5/18 Required Project Information: Report To: Rob Smith O O O O O O O O O DW (G=GRAB C=COMP) SAMPLE TYPE O O urchase Order No.: NO. DW MO MO MO DW M MO MO DW MO Project Name: MATRIX CODE Section B Copy To: Valid Matrix Codes
MATRIX CODE
DRINKING WATER
WATER WEW
PRODUCT
PRODUCT
SOLLSOUD
SU S AR AR OIL WIPE AIR OTHER TISSUE 46555 Humboldt Dr. Ste 100, Robert.Smith@ATCGS.com 1-120-CF-1 1-101-CF-1 1-121-KS-2 1-110-CF-1 1-105-CF-1 1-100-B 1-108-CF 2-D-B-2 2-C-B-1 2-D-B-1 1-110-B 1-B-B-1 ADDITIONAL COMMENTS (A-Z, 0-9 / ,-) Sample IDs MUST BE UNIQUE 10 Days ATC Group Services Fax: SAMPLE ID Novi Mi. 48377 Required Client Information 1 248 669 5140 equired Client Information: equested Due Date/TAT: Section D mail To: ddress: hone: 10 2 9 7 80 6 = 12

F-ALL-Q-020rev.08, 12-Oct-2007

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.

(N/A)

Samples Intact

Custody Sealed Cooler (Y/N)

Ice (Y/N)

Received on

Temp in °C

4/6/18

DATE Signed (MM/DD/YY):

PRINT Name of SAMPLER: Craig Demshuk

SIGNATURE of SAMPLER:

Page 39 of 44

SAMPLER NAME AND SIGNATURE

1758

84/11/18

HOM HOMES

DRINKING WATER #19331 OTHER of ~ GROUND WATER REGULATORY AGENCY Page: Ξ L RCRA STATE: NPDES Site Location CHAIN-OF-CUSTODY / Analytical Request Document TSU C The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately. Invoice Information: Attention: Company Name: Pace Quote
Reference:
Pace Project
Manager:
Pace Profile #: Section C Address: Project Name: Bow Elementary-Middle School Project Number: 188bs18112 Section B
Required Project Information:
Report To: Rob Smith Purchase Order No.: Copy To: 46555 Humboldt Dr. Ste 100, Robert.Smith@ATCGS.com 10 Days ATC Group Services Pace Analytical " Fax Novi Mi. 48377 hone: 1 248 669 5140 Section A sequired Client Information: Requested Due Date/TAT: ddress: ompany: mail To;

Required Client Information (WINDER MARK ACROSS) SAMPLE ID (WINDER DATE TIME DATE TIM	Kequested Analysis Filtered (X/N)
WASTER SCHOOL STATE OF A WIPE A SOME COLLECTION	↑ N/A
ARTERIAN AND THE TIME TO THE T	
-2 DW G 4/5/18 4:30pm 1 T E Z DW G 4/5/18 5:08pm 1 T E Z DW G 4/5/18 5:08pm 1 T E Z B DW G 4/5/18 5:08pm 1 T E Z RELINQUISHED BY / AFFILLATION DATE TIME	c _{Os} Os ethanol ther A nalysis Test §
DW G 4/5/18 4:32pm 1 1	Cr bE 0
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PRINT Name of SAMPLER: Crain Deventor	od on (V) oolet (i)
SIGNATURE of SAMPLER:	DATE Signed Temp Custo Cust

F-ALL-Q-020rev.08, 12-Oct-2007

*Importaint Note: By signing this form you are accepting Pacer's NET 30 day payment terms and agreeing to late charges of 1,5% per month for any invoices not paid within 30 bays.

50	SAMPLE RECEIVIN	G / LOG-IN CHECKI	IST
Pace Analyti	ical Plant ATC - BOI		Nork Order #: 4610697
	Receipt Record Page/Line #	Project Chemist	Sample #s
Recorded by (initials/date)	Cooler Qty Rec	ceived R Gun (#20	001 000
aw 04/12/18	an Other	Thermometer Used Digital Ther Other (#	
Cooler # Time	Cooler # Time	Cooler # Time	Cooler # Time
Custody Seals:	Custody Seals:		
None	None	Custody Seals: None	Custody Seals:
Present / Intact	□ Present / Intact	☐ Present / Intact	│ │ │ None │ │ │ Present / Intact
☐ Present / Not Intact Coolant Type:	Present / Not Intact	☐ Present / Not Intact	Present / Not Intact
☐ Loose Ice	Coolant Type: Loose Ice	Coolant Type:	Coolant Type:
☐ Bagged Ice	☐ Bagged Ice	Loose Ice Bagged Ice	Loose Ice
☐ Blue Ice ✓ None	☐ Blue Ice	☐ Blue Ice	☐ Bagged Ice ☐ Blue Ice
Coolant Location:	Coolant Location:	None	None
Dispersed / Top / Middle / Bottom	Dispersed / Top / Middle / Bottor	Coolant Location:	Coolant Location;
Temp Blank Present: ☐ Yes Ø No	Temp Blank Present: ☐ Yes ☐ No	Temp Blank Present: Q Ves Q N	
If Present, Temperature Blank Location is: Representative Not Representative	If Present, Temperature Blank Location is	If Present, Temperature Blank Location	
Representative Not Representative Observed Correction	Representative Not Representative	Representative Not Representa	
°C Factor °C Actual °C	Observed Correction °C Factor °C Actual °C	Observed Correction Factor °C Actual °	Observed On the
Sample 1: 71	Temp Blank:	Temp Blank;	Temp Blank:
01.5 0 01.5	Sample 1:	Sample 1;	Sample 1:
Sample 2: 21,6 6 21,6	Sample 2:	Sample 2:	Sample 2:
Sample 3: 71,5 0 21,5	Sample 3:	Sample 3:	Sample 3:
3 Sample Average °C: 74.5	3 Sample Average °C:	3 Sample Average °C:	3 Sample Average °C:
☐ VOC Trip Blank received?	□ Cooler ID on COC?□ VOC Trip Blank received?	Cooler ID on COC?	☐ Cooler ID on COC?
		□ VOC Trip Blank received? Receiving Non-Conformance and	VOC Trip Blank received?
Paperwork Received	one one on piete Sample		/or Inventory Form
Yes No		Check Sample Preservation	
☐ Chain of Custody record(s)?		,	Blank OR average sample temperature, ≥6° C?
Received for Lab Signed/Dat Shipping document?	te/Time?	☐ ☐ ☐ If either is ≥6°	C, was thermal preservation required?
Other		If "Yes", Pro	ject Chemist Approval Initials:
COC Information		If "Yes" Con Completed Sar	pleted Non Con Cooler - Cont Inventory Form?
Pace COC Dother		□ □ Samples chem	nple Preservation Verification Form?
COC ID Numbers:		If "No", added	
19279 19220	10.55		reserved VOC soils?
19329, 19330, Check COC for Accuracy	19331	✓ □ MeOH	☐ Na ₂ SO ₄
res No		Check for Short Hold-Time Prep/	Analyses
☐ Analysis Requested?		☐ Bacteriological ☐ Air Bags	
Sample ID matches COC?		☐ EnCores / Methanol Pre-Preserved	AFTER HOURS ONLY: COPIES OF COC TO LAB AREA(S)
Sample Date and Time match Container type completed on 0		☐ Formaldehyde/Aldehyde	NONE RECEIVED
	SOURCE CONTRACTOR CONT	☐ Green-tagged containers	RECEIVED, COCs TO LAB(S)
All container types indicated a sample Condition Summary		☐ Yellow/White-tagged 1 L ambers (SV	Prep-Lab)
/A Yes No		Notes	
☐ ☐ Broken containers/li	ids?		
Missing or incomple	ete labels?		
Illegible information	on labels?		
Low volume receive	57-58-	☐ Trip Blank received ☐ Trip I	Blank not listed on COC
/ Proprieto el titoli	n-Pace containers received?		Delivered (Date/Time) ≤1 Hour Goal Met?
	ntainers have headspace? ns / containers not listed on COC?	An Mola Min	NUIDIR Yes / No
		mo offells and	Page 41 of 44
Sample Receiving Log In Forms Device	THE RESERVE AND THE SECOND SEC		1 490 71 01 44

Receipt Log # Completed By (in the letter)							PRESERVATION VERIFICATIO Work Order # 4/e/0697 Project Manager					
COC ID#					1091	12/18	an					
	19329	(1/3)			Adjusted I	by:					pH Strip gent or Lot #	
Container Type			Date:							Ø	HC727135	
Preservative		H ₂ SO ₄ <2	13 H ₂ SO ₄ <2	HNO	6)	HNO ₃	5				Other	
	Received Adjusted	Received Adjusted	Received Adjuste		7/4	Received		Received	Adjusted			
COC Line #1				/						Place a c	heck mark in t	
COC Line #2											box if pH is e. If pH is not	
COC Line #3										acceptabl	e, document t	
COC Line #4				V						Received pH values	and Adjusted	
COC Line #5				/						appropria	te columns (al	
COC Line #6				/							nts must be	
COC Line #7				/						reviewed by the project manager). Never add		
COC Line #8				/							2x the default on volume (se	
COC Line #9				/						table below	w for default	
COC Line #10				-						volumes). attach an	Complete and	
COC Line #11										preservation	on tag to all	
COC Line #12										adjusted samples. A		
comments:										Conformar must be co	impleted if a	
Comments:	102212	(212)			Adimeter					Conformar	nce Report empleted if a	
	19330 (2/3)		- 1	Adjusted by:					Conformar must be co pH adjustn required.	nce Report Impleted if a Inent was Default	
OC ID #	5 / 23	4	13	ų	Qate:					Conformar must be co pH adjustn required.	nce Report ompleted if a nent was	
OC ID # Container Type Preservative	5 / 23 NaOH >12	4 H ₂ SO ₄ <2	H ₂ SO ₄ <2	HNO ₃ <	Date:	15 HNO ₃ <	2			Conformar must be co pH adjustn required.	Default Preservative Volume (mL)	
OC ID # Container Type Preservative pH	5 / 23 NaOH >12	4 H ₂ SO ₄ <2		HNO ₃ <	Date:	15	2	Received A	Adjusted	Conformar must be co pH adjustn required.	Default Preservative	
OC ID # Container Type Preservative	5 / 23 NaOH >12	4 H ₂ SO ₄ <2	H ₂ SO ₄ <2	HNO ₃ <	Date:	15 HNO ₃ <	2	Received A	Adjusted	Conformar must be copH adjustn required. Container Size (mL) Container Types 5 / 23	Default Preservative Volume (mL)	
OC ID # Container Type Preservative pH COC Line #1 COC Line #2	5 / 23 NaOH >12	4 H ₂ SO ₄ <2	H ₂ SO ₄ <2	HNO ₃ <	Date:	15 HNO ₃ <	2	Received A	Adjusted	Container Types 5 / 23	Default Preservative Volume (mL)	
OC ID # Container Type Preservative pH COC Line #1 COC Line #2 COC Line #3	5 / 23 NaOH >12	4 H ₂ SO ₄ <2	H ₂ SO ₄ <2	(6. HNO ₃ <	Date:	15 HNO ₃ <	2	Received A	Adjusted	Conformar must be copH adjustn required. Container Size (mL) Container Types 5 / 23 250 Container	Default Preservative Volume (mL)	
OC ID # Container Type Preservative pH COC Line #1 COC Line #2 COC Line #3 COC Line #4	5 / 23 NaOH >12	4 H ₂ SO ₄ <2	H ₂ SO ₄ <2	(6. HNO ₃ <	Date:	15 HNO ₃ <	2	Received A	Adjusted	Container Types 4 Container Type 4	Default Preservative Volume (mL)	
OC ID # Container Type Preservative pH COC Line #1 COC Line #2 COC Line #3 COC Line #4 COC Line #5	5 / 23 NaOH >12	4 H ₂ SO ₄ <2	H ₂ SO ₄ <2	Received	Date:	15 HNO ₃ <	2	Received A	Adjusted	Conformar must be copH adjustn required. Container Size (mL) Container Types 5 / 23 250 Container Type 4 125	Default Preservative Volume (mL) NaOH 1.3 H ₂ SO ₄ 0.5	
OC ID # Container Type Preservative pH COC Line #1 COC Line #2 COC Line #3 COC Line #4 COC Line #5 COC Line #6	5 / 23 NaOH >12	4 H ₂ SO ₄ <2	H ₂ SO ₄ <2	Received	Date:	15 HNO ₃ <	2	Received A	Adjusted	Conformar must be copH adjustn required. Container Size (mL) Container Types 5 / 23 250 Container Type 4 125 250	Default Preservative Volume (mL) NaOH 1.3 H ₂ SO ₄ 0.5	
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OC ID # Container Type Preservative pH COC Line #1	5 / 23 NaOH >12	4 H ₂ SO ₄ <2	H ₂ SO ₄ <2	Received	Date:	15 HNO ₃ <	2	Received A	Adjusted	Conformar must be copH adjustn required. Container Size (mL) Container Types 5 / 23 250 Container Type 4 125 250 500 1000 Container Type 13 500	Default Preservative Volume (mL) NaOH 1.3 H ₂ SO ₄ 0.5 1.0 2.0 4.0 H ₂ SO ₄ 2.5 HNO ₃	
OC ID # Container Type Preservative pH COC Line #1 COC Line #2 COC Line #3 COC Line #4 COC Line #6 COC Line #7 COC Line #8 COC Line #9 COC Line #9 COC Line #10	5 / 23 NaOH >12	4 H ₂ SO ₄ <2	H ₂ SO ₄ <2	Received / / / / / / / / / / / / / / / / / /	Date:	15 HNO ₃ <	2	Received A	Adjusted	Conformar must be copH adjustn required. Container Size (mL) Container Types 5 / 23 250 Container Type 4 125 250 500 1000 Container Type 13 500 Container Type 13	Default Preservative Volume (mL) NaOH 1.3 H ₂ SO ₄ 0.5 1.0 2.0 4.0 H ₂ SO ₄ 2.5 HNO ₃ 0.7	
OC ID # Container Type Preservative pH 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 #8	5 / 23 NaOH >12	4 H ₂ SO ₄ <2	H ₂ SO ₄ <2	Received	Date:	15 HNO ₃ <	2	Received A	Adjusted	Conformar must be copH adjustn required. Container Size (mL) Container Types 5 / 23 250 Container Type 4 125 250 500 1000 Container Type 13 500 Container Type 6 / 15 125	Default Preservative Volume (mL) NaOH 1.3 H ₂ SO ₄ 0.5 1.0 2.0 4.0 H ₂ SO ₄ 2.5 HNO ₃	

Ølient Ø	ace A	1 - P	OW								Work Orde		1069	ATION Z
Receipt Log #	(4	17-11				Complete	d By (initials/o	date) 4 [2	18 ~		Project Ma	nager / C	ecour	7
COC ID#		,				V	000	1	18 an	<i>.</i>			11	oH Strip
	10	1331	3	5)				Adjusted	by:					ent or Lot#
Container Typ	•	/ 23						Pate:					Ø	HC727135
Preservativ		CONTRACTOR OF THE PROPERTY OF	H ₂ SO	4	H ₂ SC	13 D ₄ <2	HNO	6	LINIC	15 D ₃ < 2				Other
p	H Received	Adjusted		d Adjusted				Adjusted		d Adjuste	Received	Adjusted		
COC Line #1							V					,	Place a ch	neck mark in t
COC Line #2							/						Received box if pH is acceptable. If pH is acceptable, document	
COC Line #3							/							
COC Line #4													Received pH values	and Adjusted
COC Line #5													appropriat	e columns (al
COC Line #6														ts must be by the project
COC Line #7													manager).	Never add 2x the defaul
COC Line #8													preservation	on volume (se
COC Line #9								-						v for default Complete an
COC Line #10													attach an d	orange
COC Line #11														on tag to all
													adjusted samples. A	
COC Line #12													Sample Re Conforman must be co pH adjustm	eceiving Non- ice Report impleted if a
comments:								Adiment					Sample Re Conforman must be co	eceiving Non- ice Report impleted if a nent was
comments:								Adjusted b	y:				Sample Re Conforman must be co pH adjustm required.	eceiving Non- ice Report impleted if a ient was
Comments:	5/:	23	4	4		13		Date:		15			Sample Re Conforman must be co pH adjustm required.	ceiving Non- ice Report impleted if a ient was Default Preservative
OC ID # Container Type Preservative	NaOH :	>12	H ₂ SO ₄		H ₂ SO ₄	<2	HNO ₃	Date:	HNO ₃				Sample Re Conforman must be co pH adjustm required.	ceiving Non- ice Report impleted if a nent was Default Preservative Volume (mL)
OC ID # Container Type Preservative pH		>12	H ₂ SO ₄ Received		H ₂ SO ₄		HNO ₃	Date:	HNO ₃	<2	Received	Adjusted	Sample Reconforman must be copH adjustm required. Container Size (mL) Container Types 5 / 23	ceiving Non- ice Report impleted if a ient was Default Preservative
OC ID # Container Type Preservative pH COC Line #1	NaOH :	>12			H ₂ SO ₄	<2	HNO ₃	Date:	HNO ₃	<2	Received	Adjusted	Sample Reconforman must be copH adjustmrequired. Container Size (mL) Container Types 5 / 23	ceiving Non- ice Report impleted if a nent was Default Preservative Volume (mL)
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omments: OC ID # Container Type Preservative pH COC Line #1 COC Line #2 COC Line #3 COC Line #4	NaOH :	>12			H ₂ SO ₄	<2	HNO ₃	Date:	HNO ₃	<2	Received	Adjusted	Sample Reconforman must be copH adjustmed. Container Size (mL) Container Types 5 / 23 250 Container Type 4	Default Preservative Volume (mL) NaOH 1.3 H ₂ SO ₄
ontainer Type Preservative pH COC Line #1 COC Line #2 COC Line #3 COC Line #4 COC Line #5	NaOH :	>12			H ₂ SO ₄	<2	HNO ₃	Date:	HNO ₃	<2	Received	Adjusted	Sample Reconforman must be coph adjustmed. Container Size (mL) Container Types 5 / 23 250 Container Type 4 125	Default Preservative Volume (mL) NaOH 1.3 H ₂ SO ₄ 0.5
omments: OC ID # ontainer Type Preservative pH COC Line #1 COC Line #2 COC Line #3 COC Line #4 COC Line #5 COC Line #5	NaOH :	>12			H ₂ SO ₄	<2	HNO ₃	Date:	HNO ₃	<2	Received	Adjusted	Sample Rec Conforman must be cop H adjustm required. Container Size (mL) Container Types 5 / 23 250 Container Type 4 125 250 500 1000	Default Preservative Volume (mL) NaOH 1.3 H ₂ SO ₄ 0.5 1.0
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omments: OC ID # ontainer Type Preservative pH 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 #8	NaOH :	>12			H ₂ SO ₄	<2	HNO ₃	Date:	HNO ₃	<2	Received	Adjusted	Sample Rec Conforman must be cop H adjustm required. Container Size (mL) Container Types 5 / 23 250 Container Type 4 125 250 500 1000 Container Type 13	Default Preservative Volume (mL) NaOH 1.3 H ₂ SO ₄ 0.5 1.0 2.0 4.0 H ₂ SO ₄
omments: OC ID # Ontainer Type Preservative pH 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 #8 COC Line #8 COC Line #8 COC Line #9 OC Line #10	NaOH :	>12			H ₂ SO ₄	<2	HNO ₃	Date:	HNO ₃	<2	Received	Adjusted	Sample Rec Conforman must be cop H adjustm required. Container Size (mL) Container Types 5 / 23 250 Container Type 4 125 250 500 1000 Container Type 13 500 Container Type 13	Default Preservative Volume (mL) NaOH 1.3 H ₂ SO ₄ 0.5 1.0 2.0 4.0 H ₂ SO ₄ 2.5
omments: OC ID # Ontainer Type Preservative pH COC Line #1 COC Line #2 COC Line #4 COC Line #5 COC Line #6 COC Line #7 COC Line #8 COC Line #8 COC Line #8 COC Line #9 OC Line #10 OC Line #11	NaOH :	>12			H ₂ SO ₄	<2	HNO ₃	Date:	HNO ₃	<2	Received	Adjusted	Sample Rec Conforman must be cop H adjustm required. Container Size (mL) Container Types 5 / 23 250 Container Type 4 125 250 500 1000 Container Type 13 500 Container Types 6 / 15	Default Preservative Volume (mL) NaOH 1.3 H ₂ SO ₄ 0.5 1.0 2.0 4.0 H ₂ SO ₄ 2.5 HNO ₃
OC ID # Container Type Preservative	NaOH :	>12			H ₂ SO ₄	<2	HNO ₃	Date:	HNO ₃	<2	Received	Adjusted	Sample Rec Conforman must be cop H adjustm required. Container Size (mL) Container Types 5 / 23 250 Container Type 4 125 250 500 1000 Container Type 13 500 Container Type 6 / 15 125	Default Preservative Volume (mL) NaOH 1.3 H ₂ SO ₄ 0.5 1.0 2.0 4.0 H ₂ SO ₄ 2.5 HNO ₃ 0.7

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SAMPLE RECEIVING NON-CONFORMANCE REPORT

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.

Line Item Comments g Container Type Time Sample Tag Date Sampled Sample Field ID Qty Container Type Sampled Time Date Sampled COC Sample Field ID Preservation Not Listed on COC невдервен Container ype of Problem Inappropriate Low Volume Label Illegible Incomplete enissiM leds Container Broken Container BuissiM # əui7 T17 General Comments COC ID#

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Project Chemist (initials/date)