

May 04, 2018

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

RE: Project: Carstens
Pace Project No.: 4611089

Dear Robert Smith:

Enclosed are the analytical results for sample(s) received by the laboratory on April 19, 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: Carstens

Pace Project No.: 4611089

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: Carstens
Pace Project No.: 4611089

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4611089001	1-K-KF-5-P	Drinking Water	04/14/18 11:04	04/19/18 19:00
4611089002	1-K-KF-5-F	Drinking Water	04/14/18 11:06	04/19/18 19:00
4611089003	1-K-KF-4-P	Drinking Water	04/14/18 11:01	04/19/18 19:00
4611089004	1-K-KF-4-F	Drinking Water	04/14/18 11:03	04/19/18 19:00
4611089005	1-K-KF-2-P	Drinking Water	04/14/18 11:18	04/19/18 19:00
4611089006	1-K-KF-2-F	Drinking Water	04/14/18 11:20	04/19/18 19:00
4611089007	1-K-KF-6-P	Drinking Water	04/14/18 11:04	04/19/18 19:00
4611089008	1-K-KF-6-F	Drinking Water	04/14/18 11:06	04/19/18 19:00
4611089009	1-K-KF-3-P	Drinking Water	04/14/18 11:00	04/19/18 19:00
4611089010	1-K-KF-3-F	Drinking Water	04/14/18 11:02	04/19/18 19:00
4611089011	1-K-KF-7-P	Drinking Water	04/14/18 11:04	04/19/18 19:00
4611089012	1-K-KF-7-F	Drinking Water	04/14/18 11:06	04/19/18 19:00
4611089013	1-SA-KF-P	Drinking Water	04/14/18 11:26	04/19/18 19:00
4611089014	1-SA-KF-F	Drinking Water	04/14/18 11:28	04/19/18 19:00
4611089015	1-LR-B-A-P	Drinking Water	04/14/18 11:32	04/19/18 19:00
4611089016	1-LR-B-A-F	Drinking Water	04/14/18 11:34	04/19/18 19:00
4611089017	1-LR-B-B-P	Drinking Water	04/14/18 11:32	04/19/18 19:00
4611089018	1-LR-B-B-F	Drinking Water	04/14/18 11:34	04/19/18 19:00
4611089019	1-102-B-1-P	Drinking Water	04/14/18 11:37	04/19/18 19:00
4611089020	1-102-B-1-F	Drinking Water	04/14/18 11:39	04/19/18 19:00
4611089021	1-102-CF-2-P	Drinking Water	04/14/18 11:37	04/19/18 19:00
4611089022	1-102-CF-2-F	Drinking Water	04/14/18 11:39	04/19/18 19:00
4611089023	1-103-CF-1-P	Drinking Water	04/14/18 11:47	04/19/18 19:00
4611089024	1-103-CF-1-F	Drinking Water	04/14/18 11:49	04/19/18 19:00
4611089025	1-103-CF-2-P	Drinking Water	04/14/18 11:51	04/19/18 19:00
4611089026	1-103-CF-2-F	Drinking Water	04/14/18 11:53	04/19/18 19:00
4611089027	1-103-B-1-P	Drinking Water	04/14/18 11:51	04/19/18 19:00
4611089028	1-103-B-1-F	Drinking Water	04/14/18 11:53	04/19/18 19:00
4611089029	1-K-WC-1-P	Drinking Water	04/14/18 10:55	04/19/18 19:00
4611089030	1-K-WC-1-F	Drinking Water	04/14/18 10:57	04/19/18 19:00
4611089031	1-115-B-P	Drinking Water	04/14/18 10:40	04/19/18 19:00
4611089032	1-115-B-F	Drinking Water	04/14/18 10:42	04/19/18 19:00
4611089033	1-A-B-A-P	Drinking Water	04/14/18 12:11	04/19/18 19:00
4611089034	1-A-B-A-F	Drinking Water	04/14/18 12:13	04/19/18 19:00
4611089035	1-A-B-B-P	Drinking Water	04/14/18 12:11	04/19/18 19:00
4611089036	1-A-B-B-F	Drinking Water	04/14/18 12:13	04/19/18 19:00
4611089037	1-MO-WC-1-P	Drinking Water	04/14/18 12:05	04/19/18 19:00

REPORT OF LABORATORY ANALYSIS

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SAMPLE SUMMARY

Project: Carstens

Pace Project No.: 4611089

Lab ID	Sample ID	Matrix	Date Collected	Date Received
4611089038	1-MO-WC-1-F	Drinking Water	04/14/18 12:07	04/19/18 19:00
4611089039	1-NS-CF-1-P	Drinking Water	04/14/18 12:02	04/19/18 19:00
4611089040	1-NS-CF-1-F	Drinking Water	04/14/18 12:04	04/19/18 19:00
4611089041	2-A-B-A-P	Drinking Water	04/14/18 12:21	04/19/18 19:00
4611089042	2-A-B-A-F	Drinking Water	04/14/18 12:23	04/19/18 19:00
4611089043	2-A-B-B-P	Drinking Water	04/14/18 12:21	04/19/18 19:00
4611089044	2-A-B-B-F	Drinking Water	04/14/18 12:23	04/19/18 19:00
4611089045	2-A-B-C-P	Drinking Water	04/14/18 12:29	04/19/18 19:00
4611089046	2-A-B-C-F	Drinking Water	04/14/18 12:31	04/19/18 19:00

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SAMPLE ANALYTE COUNT

Project: Carstens
Pace Project No.: 4611089

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4611089001	1-K-KF-5-P	EPA 200.8	DWJ	2
4611089002	1-K-KF-5-F	EPA 200.8	DWJ	2
4611089003	1-K-KF-4-P	EPA 200.8	DWJ	2
4611089004	1-K-KF-4-F	EPA 200.8	DWJ	2
4611089005	1-K-KF-2-P	EPA 200.8	DWJ	2
4611089006	1-K-KF-2-F	EPA 200.8	DWJ	2
4611089007	1-K-KF-6-P	EPA 200.8	DWJ	2
4611089008	1-K-KF-6-F	EPA 200.8	DWJ	2
4611089009	1-K-KF-3-P	EPA 200.8	DWJ	2
4611089010	1-K-KF-3-F	EPA 200.8	DWJ	2
4611089011	1-K-KF-7-P	EPA 200.8	DWJ	2
4611089012	1-K-KF-7-F	EPA 200.8	DWJ	2
4611089013	1-SA-KF-P	EPA 200.8	DWJ	2
4611089014	1-SA-KF-F	EPA 200.8	DWJ	2
4611089015	1-LR-B-A-P	EPA 200.8	DWJ	2
4611089016	1-LR-B-A-F	EPA 200.8	DWJ	2
4611089017	1-LR-B-B-P	EPA 200.8	DWJ	2
4611089018	1-LR-B-B-F	EPA 200.8	DWJ	2
4611089019	1-102-B-1-P	EPA 200.8	DWJ	2
4611089020	1-102-B-1-F	EPA 200.8	DWJ	2
4611089021	1-102-CF-2-P	EPA 200.8	DWJ	2
4611089022	1-102-CF-2-F	EPA 200.8	DWJ	2
4611089023	1-103-CF-1-P	EPA 200.8	DWJ	2
4611089024	1-103-CF-1-F	EPA 200.8	DWJ	2
4611089025	1-103-CF-2-P	EPA 200.8	DWJ	2
4611089026	1-103-CF-2-F	EPA 200.8	DWJ	2
4611089027	1-103-B-1-P	EPA 200.8	DWJ	2
4611089028	1-103-B-1-F	EPA 200.8	DWJ	2
4611089029	1-K-WC-1-P	EPA 200.8	DWJ	2
4611089030	1-K-WC-1-F	EPA 200.8	DWJ	2
4611089031	1-115-B-P	EPA 200.8	DWJ	2
4611089032	1-115-B-F	EPA 200.8	DWJ	2
4611089033	1-A-B-A-P	EPA 200.8	DWJ	2
4611089034	1-A-B-A-F	EPA 200.8	DWJ	2
4611089035	1-A-B-B-P	EPA 200.8	DWJ	2
4611089036	1-A-B-B-F	EPA 200.8	DWJ	2
4611089037	1-MO-WC-1-P	EPA 200.8	DWJ	2

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SAMPLE ANALYTE COUNT

Project: Carstens

Pace Project No.: 4611089

Lab ID	Sample ID	Method	Analysts	Analytes Reported
4611089038	1-MO-WC-1-F	EPA 200.8	DWJ	2
4611089039	1-NS-CF-1-P	EPA 200.8	DWJ	2
4611089040	1-NS-CF-1-F	EPA 200.8	DWJ	2
4611089041	2-A-B-A-P	EPA 200.8	DWJ	2
4611089042	2-A-B-A-F	EPA 200.8	DWJ	2
4611089043	2-A-B-B-P	EPA 200.8	DWJ	2
4611089044	2-A-B-B-F	EPA 200.8	DWJ	2
4611089045	2-A-B-C-P	EPA 200.8	DWJ	2
4611089046	2-A-B-C-F	EPA 200.8	DWJ	2

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-K-KF-5-P		Lab ID: 4611089001		Collected: 04/14/18 11:04		Received: 04/19/18 19:00		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	251	ug/L	5.0	1300	5		05/02/18 14:33	7440-50-8	
Lead	1.8	ug/L	1.0	15	1		05/02/18 13:46	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-K-KF-5-F		Lab ID: 4611089002		Collected: 04/14/18 11:06		Received: 04/19/18 19:00		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	4.2	ug/L	1.0	1300	1		05/02/18 13:48	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		05/02/18 13:48	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-K-KF-4-P		Lab ID: 4611089003		Collected: 04/14/18 11:01		Received: 04/19/18 19:00		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	97.7	ug/L	1.0	1300	1		05/02/18 13:49	7440-50-8	
Lead	2.2	ug/L	1.0	15	1		05/02/18 13:49	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-K-KF-4-F		Lab ID: 4611089004		Collected: 04/14/18 11:03		Received: 04/19/18 19:00		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	8.5	ug/L	1.0	1300	1		05/02/18 13:54	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		05/02/18 13:54	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-K-KF-2-P		Lab ID: 4611089005		Collected: 04/14/18 11:18		Received: 04/19/18 19:00		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	224	ug/L	5.0	1300	5		05/02/18 14:35	7440-50-8	
Lead	2.6	ug/L	1.0	15	1		05/02/18 13:55	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-K-KF-2-F		Lab ID: 4611089006		Collected: 04/14/18 11:20		Received: 04/19/18 19:00		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	17.6	ug/L	1.0	1300	1		05/02/18 14:01	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		05/02/18 14:01	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-K-KF-6-P		Lab ID: 4611089007		Collected: 04/14/18 11:04		Received: 04/19/18 19:00		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	179	ug/L	5.0	1300	5		05/03/18 11:05	7440-50-8	
Lead	2.0	ug/L	1.0	15	1		05/02/18 15:30	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-K-KF-6-F		Lab ID: 4611089008		Collected: 04/14/18 11:06		Received: 04/19/18 19:00		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	171	ug/L	5.0	1300	5		05/03/18 11:10	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		05/02/18 15:35	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-K-KF-3-P		Lab ID: 4611089009		Collected: 04/14/18 11:00		Received: 04/19/18 19:00		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	152	ug/L	5.0	1300	5		05/03/18 11:11	7440-50-8	
Lead	2.6	ug/L	1.0	15	1		05/02/18 15:37	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-K-KF-3-F		Lab ID: 4611089010		Collected: 04/14/18 11:02		Received: 04/19/18 19:00		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	11.3	ug/L	1.0	1300	1		05/02/18 15:38	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		05/02/18 15:38	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-K-KF-7-P		Lab ID: 4611089011		Collected: 04/14/18 11:04		Received: 04/19/18 19:00		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	174	ug/L	5.0	1300	5		05/03/18 11:13	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		05/02/18 15:40	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-K-KF-7-F		Lab ID: 4611089012		Collected: 04/14/18 11:06		Received: 04/19/18 19:00		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		05/02/18 15:44	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		05/02/18 15:44	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-SA-KF-P		Lab ID: 4611089013		Collected: 04/14/18 11:26		Received: 04/19/18 19:00		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	198	ug/L	5.0	1300	5		05/03/18 11:14	7440-50-8	
Lead	3.2	ug/L	1.0	15	1		05/02/18 15:46	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-SA-KF-F		Lab ID: 4611089014	Collected: 04/14/18 11:28	Received: 04/19/18 19:00	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	7.7	ug/L	1.0	1300	1		05/02/18 15:47	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		05/02/18 15:47	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-LR-B-A-P		Lab ID: 4611089015		Collected: 04/14/18 11:32		Received: 04/19/18 19:00		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	338	ug/L	10.0	1300	10		05/03/18 11:15	7440-50-8	
Lead	7.8	ug/L	1.0	15	1		05/02/18 15:49	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-LR-B-A-F		Lab ID: 4611089016		Collected: 04/14/18 11:34		Received: 04/19/18 19:00		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	47.0	ug/L	1.0	1300	1		05/02/18 15:50	7440-50-8	
Lead	1.5	ug/L	1.0	15	1		05/02/18 15:50	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-LR-B-B-P		Lab ID: 4611089017		Collected: 04/14/18 11:32		Received: 04/19/18 19:00		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	209	ug/L	5.0	1300	5		05/03/18 11:17	7440-50-8	
Lead	2.5	ug/L	1.0	15	1		05/02/18 15:52	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-LR-B-B-F		Lab ID: 4611089018		Collected: 04/14/18 11:34		Received: 04/19/18 19:00		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	47.3	ug/L	1.0	1300	1		05/02/18 15:53	7440-50-8	
Lead	1.5	ug/L	1.0	15	1		05/02/18 15:53	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-102-B-1-P		Lab ID: 4611089019		Collected: 04/14/18 11:37		Received: 04/19/18 19:00		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	110	ug/L	5.0	1300	5		05/03/18 11:21	7440-50-8	
Lead	1.6	ug/L	1.0	15	1		05/02/18 15:55	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-102-B-1-F		Lab ID: 4611089020		Collected: 04/14/18 11:39		Received: 04/19/18 19:00		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	47.0	ug/L	1.0	1300	1		05/02/18 15:56	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		05/02/18 15:56	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-102-CF-2-P		Lab ID: 4611089021	Collected: 04/14/18 11:37		Received: 04/19/18 19:00		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	86.4	ug/L	1.0	1300	1		05/02/18 15:58	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		05/02/18 15:58	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-102-CF-2-F		Lab ID: 4611089022	Collected: 04/14/18 11:39	Received: 04/19/18 19:00	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	44.8	ug/L	1.0	1300	1		05/02/18 16:05	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		05/02/18 16:05	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-103-CF-1-P		Lab ID: 4611089023	Collected: 04/14/18 11:47		Received: 04/19/18 19:00		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	272	ug/L	5.0	1300	5		05/03/18 11:22	7440-50-8	
Lead	175	ug/L	5.0	15	5		05/03/18 11:22	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-103-CF-1-F		Lab ID: 4611089024		Collected: 04/14/18 11:49		Received: 04/19/18 19:00		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	327	ug/L	5.0	1300	5		05/03/18 11:23	7440-50-8	
Lead	35.4	ug/L	1.0	15	1		05/02/18 16:08	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-103-CF-2-P		Lab ID: 4611089025	Collected: 04/14/18 11:51		Received: 04/19/18 19:00		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	184	ug/L	5.0	1300	5		05/03/18 11:25	7440-50-8	
Lead	1.2	ug/L	1.0	15	1		05/02/18 16:09	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-103-CF-2-F		Lab ID: 4611089026		Collected: 04/14/18 11:53		Received: 04/19/18 19:00		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	46.7	ug/L	1.0	1300	1		05/02/18 16:11	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		05/02/18 16:11	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-103-B-1-P		Lab ID: 4611089027		Collected: 04/14/18 11:51		Received: 04/19/18 19:00		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	215	ug/L	5.0	1300	5		05/03/18 11:26	7440-50-8	
Lead	2.2	ug/L	1.0	15	1		05/02/18 16:25	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-103-B-1-F		Lab ID: 4611089028		Collected: 04/14/18 11:53		Received: 04/19/18 19:00		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	44.1	ug/L	1.0	1300	1		05/02/18 16:27	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		05/02/18 16:27	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-K-WC-1-P		Lab ID: 4611089029		Collected: 04/14/18 10:55		Received: 04/19/18 19:00		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	309	ug/L	5.0	1300	5		05/03/18 11:27	7440-50-8	
Lead	1.9	ug/L	1.0	15	1		05/02/18 16:28	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-K-WC-1-F		Lab ID: 4611089030		Collected: 04/14/18 10:57		Received: 04/19/18 19:00		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	90.8	ug/L	1.0	1300	1		05/02/18 16:30	7440-50-8	
Lead	1.3	ug/L	1.0	15	1		05/02/18 16:30	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-115-B-P		Lab ID: 4611089031	Collected: 04/14/18 10:40		Received: 04/19/18 19:00		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	94.7	ug/L	1.0	1300	1		05/02/18 16:31	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		05/02/18 16:31	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-115-B-F		Lab ID: 4611089032		Collected: 04/14/18 10:42		Received: 04/19/18 19:00		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	8.8	ug/L	1.0	1300	1		05/02/18 16:32	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		05/02/18 16:32	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-A-B-A-P		Lab ID: 4611089033		Collected: 04/14/18 12:11		Received: 04/19/18 19:00		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	83.1	ug/L	1.0	1300	1		05/02/18 16:38	7440-50-8	
Lead	1.5	ug/L	1.0	15	1		05/02/18 16:38	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-A-B-A-F		Lab ID: 4611089034		Collected: 04/14/18 12:13		Received: 04/19/18 19:00		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	34.8	ug/L	1.0	1300	1		05/02/18 16:43	7440-50-8	
Lead	2.2	ug/L	1.0	15	1		05/02/18 16:43	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-A-B-B-P		Lab ID: 4611089035		Collected: 04/14/18 12:11		Received: 04/19/18 19:00		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	106	ug/L	5.0	1300	5		05/03/18 11:29	7440-50-8	
Lead	2.4	ug/L	1.0	15	1		05/02/18 16:44	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-A-B-B-F		Lab ID: 4611089036		Collected: 04/14/18 12:13		Received: 04/19/18 19:00		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	39.8	ug/L	1.0	1300	1		05/02/18 16:46	7440-50-8	
Lead	2.3	ug/L	1.0	15	1		05/02/18 16:46	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-MO-WC-1-P		Lab ID: 4611089037		Collected: 04/14/18 12:05		Received: 04/19/18 19:00		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	99.3	ug/L	5.0	1300	5		05/03/18 11:30	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		05/02/18 16:47	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-MO-WC-1-F		Lab ID: 4611089038		Collected: 04/14/18 12:07		Received: 04/19/18 19:00		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	70.4	ug/L	1.0	1300	1		05/02/18 16:49	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		05/02/18 16:49	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-NS-CF-1-P		Lab ID: 4611089039		Collected: 04/14/18 12:02		Received: 04/19/18 19:00		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	205	ug/L	5.0	1300	5		05/03/18 15:57	7440-50-8	
Lead	1.7	ug/L	1.0	15	1		05/02/18 16:50	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 1-NS-CF-1-F		Lab ID: 4611089040		Collected: 04/14/18 12:04		Received: 04/19/18 19:00		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	29.3	ug/L	1.0	1300	1		05/02/18 16:52	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		05/02/18 16:52	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 2-A-B-A-P		Lab ID: 4611089041		Collected: 04/14/18 12:21		Received: 04/19/18 19:00		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		05/03/18 11:31	7440-50-8	
Lead	<1.0	ug/L	1.0	15	1		05/02/18 16:53	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 2-A-B-A-F		Lab ID: 4611089042	Collected: 04/14/18 12:23	Received: 04/19/18 19:00	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	42.0	ug/L	1.0	1300	1		05/02/18 16:54	7440-50-8	
Lead	1.6	ug/L	1.0	15	1		05/02/18 16:54	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 2-A-B-B-P		Lab ID: 4611089043	Collected: 04/14/18 12:21	Received: 04/19/18 19:00	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	139	ug/L	5.0	1300	5		05/03/18 15:59	7440-50-8	
Lead	1.2	ug/L	1.0	15	1		05/02/18 16:56	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 2-A-B-B-F		Lab ID: 4611089044	Collected: 04/14/18 12:23	Received: 04/19/18 19:00	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	32.1	ug/L	1.0	1300	1		05/02/18 17:01	7440-50-8	
Lead	1.6	ug/L	1.0	15	1		05/02/18 17:01	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 2-A-B-C-P		Lab ID: 4611089045		Collected: 04/14/18 12:29		Received: 04/19/18 19:00		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	118	ug/L	5.0	1300	5		05/03/18 11:32	7440-50-8	
Lead	7.4	ug/L	1.0	15	1		05/02/18 17:02	7439-92-1	

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ANALYTICAL RESULTS

Project: Carstens

Pace Project No.: 4611089

Sample: 2-A-B-C-F		Lab ID: 4611089046	Collected: 04/14/18 12:31		Received: 04/19/18 19:00		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	77.8	ug/L	5.0	1300	5		05/03/18 11:53	7440-50-8	
Lead	4.5	ug/L	1.0	15	1		05/02/18 17:04	7439-92-1	

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QUALITY CONTROL DATA

Project: Carstens
Pace Project No.: 4611089

QC Batch: 21879 Analysis Method: EPA 200.8
QC Batch Method: EPA 200.8 Analysis Description: ICPMS Metals, No Prep
Associated Lab Samples: 4611089001, 4611089002, 4611089003, 4611089004, 4611089005, 4611089006

METHOD BLANK: 87377 Matrix: Water
Associated Lab Samples: 4611089001, 4611089002, 4611089003, 4611089004, 4611089005, 4611089006

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<1.0	1.0	05/02/18 13:06	
Lead	ug/L	<1.0	1.0	05/02/18 13:06	

LABORATORY CONTROL SAMPLE: 87378

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	20	20.9	104	85-115	
Lead	ug/L	20	19.7	98	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 87379 87380

Parameter	Units	4611088004 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	25.2	20	20	44.1	44.1	94	95	70-130	0	20	
Lead	ug/L	<1.0	20	20	19.8	19.9	98	98	70-130	0	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 87382 87383

Parameter	Units	4611089005 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	224	100	100	333	328	109	105	70-130	1	20	
Lead	ug/L	2.6	20	20	22.4	21.3	99	94	70-130	5	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.

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QUALITY CONTROL DATA

Project: Carstens
Pace Project No.: 4611089

QC Batch:	21923	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	ICPMS Metals, No Prep
Associated Lab Samples:	4611089007, 4611089008, 4611089009, 4611089010, 4611089011, 4611089012, 4611089013, 4611089014, 4611089015, 4611089016, 4611089017, 4611089018, 4611089019, 4611089020, 4611089021, 4611089022, 4611089023, 4611089024, 4611089025, 4611089026		

METHOD BLANK:	87534	Matrix:	Water
Associated Lab Samples:	4611089007, 4611089008, 4611089009, 4611089010, 4611089011, 4611089012, 4611089013, 4611089014, 4611089015, 4611089016, 4611089017, 4611089018, 4611089019, 4611089020, 4611089021, 4611089022, 4611089023, 4611089024, 4611089025, 4611089026		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<1.0	1.0	05/02/18 15:27	
Lead	ug/L	<1.0	1.0	05/02/18 15:27	

LABORATORY CONTROL SAMPLE: 87535

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	20	20.5	102	85-115	
Lead	ug/L	20	19.8	99	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 87536 87537

Parameter	Units	4611089007 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	179	100	100	282	272	104	94	70-130	4	20	
Lead	ug/L	2.0	20	20	21.4	22.5	97	103	70-130	5	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 87539 87540

Parameter	Units	4611089026 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	46.7	20	20	66.1	65.7	97	95	70-130	1	20	
Lead	ug/L	<1.0	20	20	21.2	20.7	102	99	70-130	3	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: Carstens
Pace Project No.: 4611089

QC Batch:	21924	Analysis Method:	EPA 200.8
QC Batch Method:	EPA 200.8	Analysis Description:	ICPMS Metals, No Prep
Associated Lab Samples:	4611089027, 4611089028, 4611089029, 4611089030, 4611089031, 4611089032, 4611089033, 4611089034, 4611089035, 4611089036, 4611089037, 4611089038, 4611089039, 4611089040, 4611089041, 4611089042, 4611089043, 4611089044, 4611089045, 4611089046		

METHOD BLANK:	87542	Matrix:	Water
Associated Lab Samples:	4611089027, 4611089028, 4611089029, 4611089030, 4611089031, 4611089032, 4611089033, 4611089034, 4611089035, 4611089036, 4611089037, 4611089038, 4611089039, 4611089040, 4611089041, 4611089042, 4611089043, 4611089044, 4611089045, 4611089046		

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Copper	ug/L	<1.0	1.0	05/02/18 16:17	
Lead	ug/L	<1.0	1.0	05/02/18 16:17	

LABORATORY CONTROL SAMPLE: 87543

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Copper	ug/L	20	18.0	90	85-115	
Lead	ug/L	20	18.1	91	85-115	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 87544 87545

Parameter	Units	4611089032 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	8.8	20	20	26.4	26.7	88	89	70-130	1	20	
Lead	ug/L	<1.0	20	20	17.7	17.8	88	89	70-130	1	20	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 87547 87548

Parameter	Units	4611089046 Result	MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
Copper	ug/L	77.8	100	100	176	175	98	97	70-130	1	20	
Lead	ug/L	4.5	20	20	24.6	25.8	101	106	70-130	5	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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QUALIFIERS

Project: Carstens
Pace Project No.: 4611089

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: Carstens
Pace Project No.: 4611089

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
4611089001	1-K-KF-5-P	EPA 200.8	21879		
4611089002	1-K-KF-5-F	EPA 200.8	21879		
4611089003	1-K-KF-4-P	EPA 200.8	21879		
4611089004	1-K-KF-4-F	EPA 200.8	21879		
4611089005	1-K-KF-2-P	EPA 200.8	21879		
4611089006	1-K-KF-2-F	EPA 200.8	21879		
4611089007	1-K-KF-6-P	EPA 200.8	21923		
4611089008	1-K-KF-6-F	EPA 200.8	21923		
4611089009	1-K-KF-3-P	EPA 200.8	21923		
4611089010	1-K-KF-3-F	EPA 200.8	21923		
4611089011	1-K-KF-7-P	EPA 200.8	21923		
4611089012	1-K-KF-7-F	EPA 200.8	21923		
4611089013	1-SA-KF-P	EPA 200.8	21923		
4611089014	1-SA-KF-F	EPA 200.8	21923		
4611089015	1-LR-B-A-P	EPA 200.8	21923		
4611089016	1-LR-B-A-F	EPA 200.8	21923		
4611089017	1-LR-B-B-P	EPA 200.8	21923		
4611089018	1-LR-B-B-F	EPA 200.8	21923		
4611089019	1-102-B-1-P	EPA 200.8	21923		
4611089020	1-102-B-1-F	EPA 200.8	21923		
4611089021	1-102-CF-2-P	EPA 200.8	21923		
4611089022	1-102-CF-2-F	EPA 200.8	21923		
4611089023	1-103-CF-1-P	EPA 200.8	21923		
4611089024	1-103-CF-1-F	EPA 200.8	21923		
4611089025	1-103-CF-2-P	EPA 200.8	21923		
4611089026	1-103-CF-2-F	EPA 200.8	21923		
4611089027	1-103-B-1-P	EPA 200.8	21924		
4611089028	1-103-B-1-F	EPA 200.8	21924		
4611089029	1-K-WC-1-P	EPA 200.8	21924		
4611089030	1-K-WC-1-F	EPA 200.8	21924		
4611089031	1-115-B-P	EPA 200.8	21924		
4611089032	1-115-B-F	EPA 200.8	21924		
4611089033	1-A-B-A-P	EPA 200.8	21924		
4611089034	1-A-B-A-F	EPA 200.8	21924		
4611089035	1-A-B-B-P	EPA 200.8	21924		
4611089036	1-A-B-B-F	EPA 200.8	21924		
4611089037	1-MO-WC-1-P	EPA 200.8	21924		
4611089038	1-MO-WC-1-F	EPA 200.8	21924		
4611089039	1-NS-CF-1-P	EPA 200.8	21924		
4611089040	1-NS-CF-1-F	EPA 200.8	21924		
4611089041	2-A-B-A-P	EPA 200.8	21924		
4611089042	2-A-B-A-F	EPA 200.8	21924		
4611089043	2-A-B-B-P	EPA 200.8	21924		
4611089044	2-A-B-B-F	EPA 200.8	21924		
4611089045	2-A-B-C-P	EPA 200.8	21924		
4611089046	2-A-B-C-F	EPA 200.8	21924		

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.

Section A		Section B		Section C	
Required Client Information:		Required Project Information:		Invoice Information:	
Company:	ATC Group Services	Report To:	Rob Smith	Attention:	
Address:	46555 Humboldt Dr. Ste 100,	Copy To:		Company Name:	
	Novi Mi. 48377			Address:	
Email To:	robert.smith@atcgs.com	Purchase Order No.:		Pace Quote Reference:	
Phone: 1 248 669 5140	Fax:	Project Name:	Carstens	Pace Project Manager:	
Requested Due Date/TAT:	10 Days	Project Number:	188bs18120	Pace Profile #:	
				☐ NPDES ☐ GROUND WATER ☒ DRINKING WATER ☐ UST ☐ RCRA ☐ OTHER _____	
				Site Location MI	
				STATE: _____	
				REGULATORY AGENCY	

ITEM #	Section D Required Client Information	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER WT WASTE WATER WW PRODUCT P SOIL/SOLID SL OIL OL WIPE WP AIR AR OTHER OT Tissue TS	COLLECTED							SAMPLE TYPE (G=GRAB C=COMP)	Requested Analysis Filtered (Y/N)									Pace Project No./ Lab I.D.			
			COMPOSITE START			COMPOSITE END/GRAB			TIME		# OF CONTAINERS	Preservatives									PB	CU	Residual Chlorine (Y/N)
			DATE	TIME	DATE	TIME	H ₂ SO ₄	HNO ₃				HCl	NaOH	Na ₂ S ₂ O ₃	Methanol	Other							
MATRIX CODE (see valid codes to left)	DATE	TIME	DATE	TIME	DATE	TIME	DATE	TIME	Analysis Test ↑	Y/N ↑													
1		1-SA-KF-P	DW	G	4/14/18	11:26			1	X								X				013	
2		1-SA-KF-F	DW	G	4/14/18	11:28			1	X								X				014	
3		1-LR-B-A-P	DW	G	4/14/18	11:32			1	X								X				015	
4		1-LR-B-A-F	DW	G	4/14/18	11:34			1	X								X				016	
5		1-LR-B-B-P	DW	G	4/14/18	11:32			1	X								X				017	
6		1-LR-B-B-F	DW	G	4/14/18	11:34			1	X								X				018	
7		1-102-B-1-P	DW	G	4/14/18	11:37			1	X								X				019	
8		1-102-B-1-F	DW	G	4/14/18	11:39			1	X								X				020	
9		1-102-CF-2-P	DW	G	4/14/18	11:37			1	X								X				021	
10		1-102-CF-2-F	DW	G	4/14/18	11:39			1	X								X				022	
11		1-103-CF-1-P	DW	G	4/14/18	11:47			1	X								X				023	
12		1-103-CF-1-F	DW	G	4/14/18	11:49			1	X								X				024	

[illegible]

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:						Section B Required Project Information:						Section C Invoice Information:					
Company:			ATC Group Services			Report To: Rob Smith			Attention:			Page: 3 of 4					
Address:			48555 Humboldt Dr. Ste 100,			Copy To:			Company Name:								
			Novi Mi. 48377						Address:								
Email To:			robert.smith@atcgs.com			Purchase Order No.:			Pace Quote Reference:			☐ NPDES ☐ GROUND WATER ☒ DRINKING WATER					
Phone: 1 248 869 5140			Fax:			Project Name: Carstens			Pace Project Manager:			☐ UST ☐ RCRA ☐ OTHER _____					
Requested Due Date/TAT:			10 Days			Project Number: 188bs18120			Pace Profile #:			Site Location MI STATE: [Hatched Box]					

[illegible][illegible]

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:		Section B Required Project Information:		Section C Invoice Information:	
Company:	ATC Group Services	Report To:	Rob Smith	Attention:	
Address:	46555 Humboldt Dr. Ste 100,	Copy To:		Company Name:	
	Novi Mi. 48377			Address:	
Email To:	robert.smith@atcgs.com	Purchase Order No.:		Peace Quote Reference:	
Phone:	1 248 669 5140	Project Name:	Carstens	Peace Project Manager:	
Fax:		Project Number:	188bs18120	Peace Profile #:	
Requested Due Date/TAT:		10 Days			

Page: 4 of 4

REGULATORY AGENCY			
☐ NPDES	☐ GROUND WATER	☒ DRINKING WATER	
☐ UST	☐ RCRA	☐ OTHER	
Site Location		STATE:	
		MI	

[illegible]

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION		DATE	TIME	ACCEPTED BY / AFFILIATION		DATE	TIME	SAMPLE CONDITIONS			
									Temp In °C	Received on Ice (Y/N)	Custody Sealed Cooler (Y/N)	Samples Intact (Y/N)
	A. Peralta		4-19-18		Denny		4-19-18	1236				
	Duke		4-19-18	1900	P. Nordin		4/19/18	950				
SAMPLER NAME AND SIGNATURE PRINT Name of SAMPLER: Andrew Ketchum SIGNATURE of SAMPLER:  DATE Signed (MM/DD/YY): 4/14/18												

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 RECEIVING / LOG-IN CHECKLIST

Pace Analytical

Client ATC
Receipt Record Page/Line # 15-14

Work Order #: 461089

Recorded by (initials/date) SN 4-20-18

☒ Cooler
☐ Box
☐ Other

Qty Received 1

Thermometer Used

☐ IR Gun (#202)
☐ Digital Thermometer (#54)
☒ IR Gun (#402)

Cooler # 000028 Time 02:14

Custody Seals:

☒ None
☐ Present / Intact
☐ Present / Not Intact

Coolant Type:

☐ Loose Ice
☐ Bagged Ice
☐ Blue Ice
☒ None

Coolant Location:

Dispersed / Top / Middle / Bottom

Temp Blank Present: ☐ Yes ☐ No

If Present, Temperature Blank Location is:

☐ Representative ☐ Not Representative

	Observed °C	Correction Factor °C	Actual °C
Temp Blank:			
Sample 1:	18.7	0	18.7
Sample 2:	18.7	0	18.7
Sample 3:	18.8	0	18.8

When above 6 °C take a

3 Sample Average °C: 18.7

☐ VOC Trip Blank received?

Cooler # _____ Time _____

Custody Seals:

☐ None
☐ Present / Intact
☐ Present / Not Intact

Coolant Type:

☐ Loose Ice
☐ Bagged Ice
☐ Blue Ice
☐ None

Coolant Location:

Dispersed / Top / Middle / Bottom

Temp Blank Present: ☐ Yes ☐ No

If Present, Temperature Blank Location is:

☐ Representative ☐ Not Representative

	Observed °C	Correction Factor °C	Actual °C
Temp Blank:			
Sample 1:			
Sample 2:			
Sample 3:			

When above 6 °C take a

3 Sample Average °C: _____

☐ VOC Trip Blank received?

Cooler # _____ Time _____

Custody Seals:

☐ None
☐ Present / Intact
☐ Present / Not Intact

Coolant Type:

☐ Loose Ice
☐ Bagged Ice
☐ Blue Ice
☐ None

Coolant Location:

Dispersed / Top / Middle / Bottom

Temp Blank Present: ☐ Yes ☐ No

If Present, Temperature Blank Location is:

☐ Representative ☐ Not Representative

	Observed °C	Correction Factor °C	Actual °C
Temp Blank:			
Sample 1:			
Sample 2:			
Sample 3:			

When above 6 °C take a

3 Sample Average °C: _____

☐ VOC Trip Blank received?

Cooler # _____ Time _____

Custody Seals:

☐ None
☐ Present / Intact
☐ Present / Not Intact

Coolant Type:

☐ Loose Ice
☐ Bagged Ice
☐ Blue Ice
☐ None

Coolant Location:

Dispersed / Top / Middle / Bottom

Temp Blank Present: ☐ Yes ☐ No

If Present, Temperature Blank Location is:

☐ Representative ☐ Not Representative

	Observed °C	Correction Factor °C	Actual °C
Temp Blank:			
Sample 1:			
Sample 2:			
Sample 3:			

When above 6 °C take a

3 Sample Average °C: _____

☐ VOC Trip Blank received?

If any shaded areas checked, complete Sample Receiving Non-Conformance

Paperwork Received

Yes ☒ No ☐ Chain of Custody record(s)? If No, Initiated By _____
Received for Lab Signed/Date/Time? _____
☐ USDA Soil Documents?
☐ Sampling / Field Forms?
☐ Other _____

COC Information

☒ Pace COC ☐ Other _____

COC ID Numbers: 18771, 18772
18773, 18774

Check COC for Accuracy

Yes ☒ No ☐ Analysis Requested?
☐ Sample ID matches COC?
☐ Sample Date and Time matches COC?
☐ All containers indicated are received?

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 have headspace?
☐ Extra sample locations?
☐ Containers not listed on COC?

Check Sample Preservation

N/A ☒ Yes ☐ No ☐
☐ Temperature Blank OR average sample temperature, ≥6° C?
☐ If "Yes" was thermal preservation required?
☒ If "Yes" were ALL samples collected the same day as receipt?
Completed Sample Preservation Verification Form?
☒ Samples chemically preserved correctly?
If "No", add wire tag and fill out Non-Conformance Form?
Received unpreserved Terracore kit?
If "Yes" unpreserved vials must be frozen

Work Order Not Logged In with Short Hold / Rush

☐ Copies of COC To Lab Areas

Notes

Yes ☐ No ☐
☐ Were all samples logged into Epic?
☐ Were all samples labelled?
☐ Were samples placed on scan locations?

Initial / Date :

AQUEOUS SAMPLE PRESERVATION VERIFICATION

Client: QTC
 Receipt Log #: 15-14
 Completed By (Initials/Date): SW 1-20-15
 Work Order #: 4611089

COC ID #: 18771

Adjusted by: _____
 Date: _____

Container Type	BP3C or AG30		BP1-4S		AG2S		BP1-4N Total		BP1-4N Dissolved			
	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 (project manager will review all adjustments at work order release). Never add more than 2x the default preservation volume (see table below for default volumes). Complete and attach a wire tag to all adjusted samples. A Sample Receiving Non-Conformance Report must be completed if a pH adjustment was required.

COC ID #: 18772

Adjusted by: _____
 Date: _____

Container Type	BP3C or AG30		BP1-4S		AG2S		BP1-4N Total		BP1-4N Dissolved			
	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: _____

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

AQUEOUS SAMPLE PRESERVATION VERIFICATION

Client: <u>ATC</u>	Completed By (initials/date): <u>Jan 4-28-18 QAC</u>	Work Order #: <u>461089</u>
Receipt Log #: <u>15-14</u>		

COC ID #: <u>18773</u>										Adjusted by: _____ Date: _____			
Container Type	BP3C or AG3O		BP1-4S		AG2S		BP1-4N Total		BP1-4N Dissolved				
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							✓						

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 (project manager will review all adjustments at work order release). Never add more than 2x the default preservation volume (see table below for default volumes). Complete and attach a wire tag to all adjusted samples. A Sample Receiving Non-Conformance Report must be completed if a pH adjustment was required.

Comments: _____

COC ID #: <u>18774</u>										Adjusted by: _____ Date: _____			
Container Type	BP3C or AG3O		BP1-4S		AG2S		BP1-4N Total		BP1-4N Dissolved				
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							✓						

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

Comments: _____



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.

Sample Receiving Log In Forms -- Sample_Receipt_Non-Conformance