

January 26, 2022

Jason Alt
City of Herington
17 N. Broadway
PO Box 31
Herington, KS 67449

RE: Project: Quarterly
Pace Project No.: 60390585

Dear Jason Alt:

Enclosed are the analytical results for sample(s) received by the laboratory on January 13, 2022. The results relate only to the samples included in this report. Results reported herein conform to the applicable TNI/NELAC Standards and the laboratory's Quality Manual, where applicable, unless otherwise noted in the body of the report.

The test results provided in this final report were generated by each of the following laboratories within the Pace Network:

- Pace Analytical Services - Ormond Beach

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

Sincerely,



Petra Craddock
petra.craddock@pacelabs.com
(785)827-1273
PM Lab Management

Enclosures

cc: Megan Lawrenz, City of Herington
Kathy Matkins, City of Herington



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: Quarterly

Pace Project No.: 60390585

Pace Analytical Services Ormond Beach

8 East Tower Circle, Ormond Beach, FL 32174

Alaska DEC- CS/UST/LUST

Alabama Certification #: 41320

Colorado Certification: FL NELAC Reciprocity

Connecticut Certification #: PH-0216

Delaware Certification: FL NELAC Reciprocity

Florida Certification #: E83079

Georgia Certification #: 955

Guam Certification: FL NELAC Reciprocity

Hawaii Certification: FL NELAC Reciprocity

Illinois Certification #: 200068

Indiana Certification: FL NELAC Reciprocity

Kansas Certification #: E-10383

Kentucky Certification #: 90050

Louisiana Certification #: FL NELAC Reciprocity

Louisiana Environmental Certificate #: 05007

Maine Certification #: FL01264

Maryland Certification: #346

Michigan Certification #: 9911

Mississippi Certification: FL NELAC Reciprocity

Missouri Certification #: 236

Montana Certification #: Cert 0074

Nebraska Certification: NE-OS-28-14

New Hampshire Certification #: 2958

New Jersey Certification #: FL022

New York Certification #: 11608

North Carolina Environmental Certificate #: 667

North Carolina Certification #: 12710

North Dakota Certification #: R-216

Ohio DEP 87780

Oklahoma Certification #: D9947

Pennsylvania Certification #: 68-00547

Puerto Rico Certification #: FL01264

South Carolina Certification: #96042001

Tennessee Certification #: TN02974

Texas Certification: FL NELAC Reciprocity

US Virgin Islands Certification: FL NELAC Reciprocity

Virginia Environmental Certification #: 460165

West Virginia Certification #: 9962C

Wisconsin Certification #: 399079670

Wyoming (EPA Region 8): FL NELAC Reciprocity

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SAMPLE SUMMARY

Project: Quarterly
Pace Project No.: 60390585

Lab ID	Sample ID	Matrix	Date Collected	Date Received
60390585001	2576 Q Ave	Drinking Water	01/12/22 14:30	01/13/22 12:04
60390585002	2576 Q Ave	Drinking Water	01/12/22 14:35	01/13/22 12:04

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SAMPLE ANALYTE COUNT

Project: Quarterly
Pace Project No.: 60390585

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
60390585001	2576 Q Ave	EPA 524.2	JLR	8	PASI-O
60390585002	2576 Q Ave	EPA 552.3	LJM	7	PASI-O

PASI-O = Pace Analytical Services - Ormond Beach

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: Quarterly

Pace Project No.: 60390585

Sample: 2576 Q Ave		Lab ID: 60390585001	Collected: 01/12/22 14:30	Received: 01/13/22 12:04	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
524.2 THM		Analytical Method: EPA 524.2 Pace Analytical Services - Ormond Beach						
Bromodichloromethane	15.1	ug/L	1.0	1		01/19/22 00:16	75-27-4	
Bromoform	5.1	ug/L	1.0	1		01/19/22 00:16	75-25-2	
Chloroform	5.5	ug/L	1.0	1		01/19/22 00:16	67-66-3	
Dibromochloromethane	15.3	ug/L	1.0	1		01/19/22 00:16	124-48-1	
Total Trihalomethanes (Calc.)	41.1	ug/L	1.0	1		01/19/22 00:16		
Surrogates								
4-Bromofluorobenzene (S)	87	%	70-130	1		01/19/22 00:16	460-00-4	
Toluene-d8 (S)	101	%	70-130	1		01/19/22 00:16	2037-26-5	
1,2-Dichlorobenzene-d4 (S)	102	%	70-130	1		01/19/22 00:16	2199-69-1	

Sample: 2576 Q Ave		Lab ID: 60390585002	Collected: 01/12/22 14:35	Received: 01/13/22 12:04	Matrix: Drinking Water			
Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
552.3 Haloacetic Acids		Analytical Method: EPA 552.3 Preparation Method: EPA 552.3 Pace Analytical Services - Ormond Beach						
Dibromoacetic Acid	6.9	ug/L	1.0	1	01/22/22 00:48	01/25/22 15:35	631-64-1	
Dichloroacetic Acid	5.2	ug/L	1.0	1	01/22/22 00:48	01/25/22 15:35	79-43-6	
Haloacetic Acids (Total)	16.7	ug/L	1.0	1	01/22/22 00:48	01/25/22 15:35		
Monobromoacetic Acid	1.4	ug/L	1.0	1	01/22/22 00:48	01/25/22 15:35	79-08-3	
Monochloroacetic Acid	ND	ug/L	1.0	1	01/22/22 00:48	01/25/22 15:35	79-11-8	
Trichloroacetic Acid	3.3	ug/L	1.0	1	01/22/22 00:48	01/25/22 15:35	76-03-9	
Surrogates								
2,3-Dibromopropanoic Acid (S)	85	%	70-130	1	01/22/22 00:48	01/25/22 15:35	600-05-5	

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QUALITY CONTROL DATA

Project: Quarterly
Pace Project No.: 60390585

QC Batch: 793157	Analysis Method: EPA 524.2
QC Batch Method: EPA 524.2	Analysis Description: 524.2 THM MSV
	Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 60390585001

METHOD BLANK: 4355161 Matrix: Water
Associated Lab Samples: 60390585001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Bromodichloromethane	ug/L	ND	1.0	01/18/22 23:28	
Bromoform	ug/L	ND	1.0	01/18/22 23:28	
Chloroform	ug/L	ND	1.0	01/18/22 23:28	
Dibromochloromethane	ug/L	ND	1.0	01/18/22 23:28	
Total Trihalomethanes (Calc.)	ug/L	ND	1.0	01/18/22 23:28	
1,2-Dichlorobenzene-d4 (S)	%	101	70-130	01/18/22 23:28	
4-Bromofluorobenzene (S)	%	88	70-130	01/18/22 23:28	
Toluene-d8 (S)	%	97	70-130	01/18/22 23:28	

LABORATORY CONTROL SAMPLE & LCSD: 4355162

Parameter	Units	4355163							RPD	Max RPD	Qualifiers
		Spike Conc.	LCS Result	LCSD Result	LCS % Rec	LCSD % Rec	% Rec Limits				
Bromodichloromethane	ug/L	20	18.0	18.1	90	91	70-130	1	20		
Bromoform	ug/L	20	16.9	15.6	84	78	70-130	8	20		
Chloroform	ug/L	20	15.5	15.3	78	77	70-130	1	20		
Dibromochloromethane	ug/L	20	17.9	17.4	89	87	70-130	3	20		
Total Trihalomethanes (Calc.)	ug/L	80	68.2	66.5	85	83	70-130	3	20		
1,2-Dichlorobenzene-d4 (S)	%				100	102	70-130				
4-Bromofluorobenzene (S)	%				91	87	70-130				
Toluene-d8 (S)	%				95	101	70-130				

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: Quarterly
Pace Project No.: 60390585

QC Batch: 794302 Analysis Method: EPA 552.3
QC Batch Method: EPA 552.3 Analysis Description: 5523 Haloacetic Acids
Laboratory: Pace Analytical Services - Ormond Beach

Associated Lab Samples: 60390585002

METHOD BLANK: 4361510 Matrix: Water

Associated Lab Samples: 60390585002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Dibromoacetic Acid	ug/L	ND	1.0	01/25/22 06:46	
Dichloroacetic Acid	ug/L	ND	1.0	01/25/22 06:46	
Haloacetic Acids (Total)	ug/L	ND	1.0	01/25/22 06:46	
Monobromoacetic Acid	ug/L	ND	1.0	01/25/22 06:46	
Monochloroacetic Acid	ug/L	ND	1.0	01/25/22 06:46	
Trichloroacetic Acid	ug/L	ND	1.0	01/25/22 06:46	
2,3-Dibromopropanoic Acid (S)	%	104	70-130	01/25/22 06:46	

LABORATORY CONTROL SAMPLE: 4361511

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Dibromoacetic Acid	ug/L	10	9.8	98	70-130	
Dichloroacetic Acid	ug/L	10	10	100	70-130	
Haloacetic Acids (Total)	ug/L	50	49.6	99	70-130	
Monobromoacetic Acid	ug/L	10	9.9	99	70-130	
Monochloroacetic Acid	ug/L	10	10.1	101	70-130	
Trichloroacetic Acid	ug/L	10	9.8	98	70-130	
2,3-Dibromopropanoic Acid (S)	%			105	70-130	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 4361512 4361513

Parameter	Units	MS 35690705001		MSD 4361513		MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Max RPD	Qual
		Result	Conc.	Result	Conc.								
Dibromoacetic Acid	ug/L	0.99J	10	10	10	10.6	10.4	96	94	70-130	1	30	
Dichloroacetic Acid	ug/L	16.3	10	10	10	26.9	26.5	106	102	70-130	1	30	
Haloacetic Acids (Total)	ug/L	35.2	50	50	50	85.7	84.0	101	98	70-130	2	30	
Monobromoacetic Acid	ug/L	0.33J	10	10	10	10.3	10.2	100	99	70-130	2	30	
Monochloroacetic Acid	ug/L	1.1	10	10	10	10.6	10.6	95	95	70-130	0	30	
Trichloroacetic Acid	ug/L	16.5	10	10	10	27.3	26.3	108	98	70-130	4	30	
2,3-Dibromopropanoic Acid (S)	%							107	105	70-130		30	

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QUALIFIERS

Project: Quarterly
Pace Project No.: 60390585

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 - The lowest concentration value that meets project requirements for quantitative data with known precision and bias for a specific analyte in a specific matrix.

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.

Reported results are not rounded until the final step prior to reporting. Therefore, calculated parameters that are typically reported as "Total" may vary slightly from the sum of the reported component parameters.

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

TNI - The NELAC Institute.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: Quarterly

Pace Project No.: 60390585

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
60390585002	2576 Q Ave	EPA 552.3	794302	EPA 552.3	794372
60390585001	2576 Q Ave	EPA 524.2	793157		

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Sample Condition Upon Receipt

WO# : 60390585



Client Name: City of Huntington

Courier: FedEx UPS VIA Clay PEX ECI Pace Xroads Client Other

Tracking #: _____ Pace Shipping Label Used? Yes No

Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Packing Material: Bubble Wrap Bubble Bags Foam None Other

Thermometer Used: 7312 Type of Ice: Wet Blue None

Cooler Temperature (°C): As-read 1.6 Corr. Factor 0.0 Corrected 1.6

Date and initials of person examining contents: 1-13-22

Temperature should be above freezing to 6°C

Chain of Custody present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Chain of Custody relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples arrived within holding time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Short Hold Time analyses (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Rush Turn Around Time requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Sufficient volume:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Correct containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Pace containers used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Containers intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Unpreserved 5035A / TX1005/1006 soils frozen in 48hrs?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Filtered volume received for dissolved tests?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Sample labels match COC: Date / time / ID / analyses	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A	
Samples contain multiple phases? <u>N</u> Matrix: <u>DW</u>	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Containers requiring pH preservation in compliance? (HNO ₃ , H ₂ SO ₄ , HCl<2; NaOH>9 Sulfide, NaOH>10 Cyanide) (Exceptions: VOA, Micro, O&G, KS TPH, OK-DRO)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	List sample IDs, volumes, lot #'s of preservative and the date/time added.
Cyanide water sample checks:		
Lead acetate strip turns dark? (Record only)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Potassium iodide test strip turns blue/purple? (Preserve)	<input type="checkbox"/> Yes <input type="checkbox"/> No	
Trip Blank present:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Headspace in VOA vials (>6mm):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No <input type="checkbox"/> N/A	
Samples from USDA Regulated Area: State:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	
Additional labels attached to 5035A / TX1005 vials in the field?	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A	

Client Notification/ Resolution: Copy COC to Client? Y N Field Data Required? Y / N

Person Contacted: _____ Date/Time: _____

Comments/ Resolution: _____

Project Manager Review: _____ Date: _____

