Service Request No:R1611666



Mr. Fran Connor Test Assured Network 204 Talmadge Hill West Waverly, NY 14892

Laboratory Results for: Pine Valley Schools

Dear Mr.Connor,

Enclosed are the results of the sample(s) submitted to our laboratory November 03, 2016 For your reference, these analyses have been assigned our service request number **R1611666**.

All analyses were performed according to our laboratory's quality assurance program. The test results meet requirements of the NELAP standards except as noted in the case narrative report. All results are intended to be considered in their entirety, and ALS Environmental is not responsible for use of less than the complete report. Results apply only to the items submitted to the laboratory for analysis and individual items (samples) analyzed, as listed in the report. The measurement uncertainty of the results included in this report is within that expected when using the prescribed method(s) for analysis of these samples, and represented by Laboratory Control Sample control limits. Any events, such as QC failures, which may add to the uncertainty are explained in the report narrative.

Please contact me if you have any questions. My extension is 7475. You may also contact me via email at Lisa.Reyes@alsglobal.com.

Respectfully submitted,

ALS Group USA, Corp. dba ALS Environmental

1 Reg

Lisa Reyes Project Manager

ADDRESS



Narrative Documents

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com

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 Client:
 Test Assured Network

 Project:
 Pine Valley Schools

 Sample Matrix:
 Drinking Water

Service Request:R1611666 Date Received:11/3/16

CASE NARRATIVE

All analyses were performed consistent with the quality assurance program of ALS Environmental. This report contains analytical results for samples designated for Tier I data deliverables. Analytical procedures performed by the lab are validated in accordance with NELAC standards. Any parameters that are not included in the lab's NELAC accreditation are identified on a "Non-Certified Analytes" report in the Miscellaneous Forms Section of this report. Individual analytical results requiring further explanation are flagged with qualifiers and/or discussed below. The flags are explained in the Report Qualifiers and Definitions page in the Miscellaneous Forms section of this report.

Sample Receipt

Two DW samples were received for analysis at ALS Environmental on 11/03/2016. Any discrepancies noted upon initial sample inspection are noted on the cooler receipt and preservation form included in this data package. The samples were received in good condition and consistent with the accompanying chain of custody form. Samples are refrigerated at \leq 6°C upon receipt at the lab except for aqueous samples designated for metals analyses, which are stored at room temperature.

Metals Analyses:

No significant anomalies were noted with this analysis.

Subcontracted Analytical Parameters:

One or more samples were subcontracted to another laboratory for testing. The certified analytical report from the subcontractor has been included in its entirety at the end of this report and includes the name and address of the subcontracted laboratory.

Approved by	J Regen	Date	12/6/2016



SAMPLE DETECTION SUMMARY

CLIENT ID: Entry Point	Lab ID: R1	611666-	001			
Analyte	Results	Flag	MDL	PQL	Units	Method
Bromodichloromethane	1.1		0.20	0.50	ug/L	524.2
Bromoform	4.9		0.30	0.50	ug/L	524.2
Dibromochloromethane	3.3		0.20	0.50	ug/L	524.2
CLIENT ID: Elem. Utility Sink #20	Lab ID: R1	611666-	002			
Analyte	Results	Flag	MDL	PQL	Units	Method
Lead, Total	3.7		0.10	1.0	ug/L	200.8

-



Sample Receipt Information

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Service Request:R1611666

SAMPLE CROSS-REFERENCE

SAMPLE #	CLIENT SAMPLE ID	DATE	TIME
R1611666-001	Entry Point	11/2/2016	1125
R1611666-002	Elem. Utility Sink #20	11/2/2016	0900

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Cooler Receipt and Preservation Check Form



Project/Clie	ent Test	- Ass	alect	1	Folder	Number_							
5	ed on 11/20	116		by: Oh		COURIER:				X VELO	CITY C	SENT	
1 Were Cu	stody seals or	outsid	e of coo	oler? Y	0	5a Percl	hlorate	samples	have rea	quired head	space?	YN	NA
2 Custody	papers prope	rly com	pleted	(ink, signed)?	N	5b Did V	/OA via	als, Alk,c	or Sulfid	e have sig*	bubbles	Y C	P NA
3 Did all b	ottles arrive in	good c	onditio	n (unbroken)?	N	6 When	e did th	e bottles	origina	te?	AIS/ROC	CHE	NT
4 Circle:	Weiler Dry	Ice C	Gel paci	ks present?	N	7 Soil	VOA re	ceived as	: B	ulk Enc	ore 50	35set ≥	A
8. Temperatur	re Readings	Da	te: 11/	1/16 Time: 1	822	ID:	IR#7	R#8		From: T	emp Blan	nk Same	le Bottle
Observed Te	emp (°C)	1	2:8	3.8		2:3	2	16		1			
Correction F	actor (°C)		JO:0	IO.O		0.0	20.	-					
Corrected To	emp (°C)		2.8			2.80	2	6					
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pН	Reagent	Yes	No	Lot Received	Exp	Sample II	D	Vol. Added	Lot A	dded	Final pH	Yes=A sample	
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<4 Residual	NaHSO ₄ For CN			If +, contact PM to								The la	
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	Na ₂ S ₂ O ₃	-	-						l			PM OI	< to
	ZnAcetate	-	-							is – pH test worksheet		Adjust	

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Bottle lot numbers: (Fiz 3/6 2 Arto Cold 16 - 2 AB) - Other Comments:

CLRES BULK DO FLDT HPROD HGFB HTR LL3541 PH SUB SO3 MARRS ALS REV

PC Secondary Review:

*significant air bubbles: VOA > 5-6 mm : WC >1 in. diameter

P:\INTRANET\QAQC\Forms Controlled\Cooler Receipt r12.doc

8/11/16



Miscellaneous Forms

ALS Environmental—Rochester Laboratory 1565 Jefferson Road, Building 300, Suite 360, Rochester, NY 14623 Phone (585) 288-5380 Fax (585) 288-8475 www.alsglobal.com

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REPORT QUALIFIERS AND DEFINITIONS

- U Analyte was analyzed for but not detected. The sample quantitation limit has been corrected for dilution and for percent moisture, unless otherwise noted in the case narrative.
- J Estimated value due to either being a Tentatively Identified Compound (TIC) or that the concentration is between the MRL and the MDL. Concentrations are not verified within the linear range of the calibration. For DoD: concentration >40% difference between two GC columns (pesticides/Arclors).
- B Analyte was also detected in the associated method blank at a concentration that may have contributed to the sample result.
- E Inorganics- Concentration is estimated due to the serial dilution was outside control limits.
- E Organics- Concentration has exceeded the calibration range for that specific analysis.
- D Concentration is a result of a dilution, typically a secondary analysis of the sample due to exceeding the calibration range or that a surrogate has been diluted out of the sample and cannot be assessed.
- Indicates that a quality control parameter has exceeded laboratory limits. Under the "Notes" column of the Form I, this qualifier denotes analysis was performed out of Holding Time.
- H Analysis was performed out of hold time for tests that have an "immediate" hold time criteria.
- # Spike was diluted out.

- + Correlation coefficient for MSA is <0.995.
- N Inorganics- Matrix spike recovery was outside laboratory limits.
- N Organics- Presumptive evidence of a compound (reported as a TIC) based on the MS library search.
- S Concentration has been determined using Method of Standard Additions (MSA).
- W Post-Digestion Spike recovery is outside control limits and the sample absorbance is <50% of the spike absorbance.
- P Concentration >40% (25% for CLP) difference between the two GC columns.
- C Confirmed by GC/MS
- Q DoD reports: indicates a pesticide/Aroclor is not confirmed (≥100% Difference between two GC columns).
- X See Case Narrative for discussion.
- MRL Method Reporting Limit. Also known as:
- LOQ Limit of Quantitation (LOQ) The lowest concentration at which the method analyte may be reliably quantified under the method conditions.
- MDL Method Detection Limit. A statistical value derived from a study designed to provide the lowest concentration that will be detected 99% of the time. Values between the MDL and MRL are estimated (see J qualifier).
- LOD Limit of Detection. A value at or above the MDL which has been verified to be detectable.
- ND Non-Detect. Analyte was not detected at the concentration listed. Same as U qualifier.



Rochester Lab ID # for State Certifications¹

Connecticut ID # PH0556	Maine ID #NY0032	New Hampshire ID #
Delaware Accredited	Nebraska Accredited	294100 A/B
DoD ELAP #65817	New Jersey ID # NY004	Pennsylvania ID# 68-786
Florida ID # E87674	New York ID # 10145	Rhode Island ID # 158
Illinois ID #200047	North Carolina #676	Virginia #460167

¹ Analyses were performed according to our laboratory's NELAP-approved quality assurance program and any applicable state or agency requirements. The test results meet requirements of the current NELAP/TNI standards or state or agency requirements, where applicable, except as noted in the case narrative. Since not all analyte/method/matrix combinations are offered for state/NELAC accreditation, this report may contain results which are not accredited. For a specific list of accredited analytes, contact the laboratory or go to http://www.alsglobal.com/en/Our-Services/Life-Sciences/Environmental/Downloads/North-America-Downloads

ALS Laboratory Group

A	cronyms

ASTM	American Society for Testing and Materials
A2LA	American Association for Laboratory Accreditation
CARB	California Air Resources Board
CAS Number	Chemical Abstract Service registry Number
CFC	Chlorofluorocarbon
CFU	Colony-Forming Unit
DEC	Department of Environmental Conservation
DEQ	Department of Environmental Quality
DHS	Department of Health Services
DOE	Department of Ecology
DOH	Department of Health
EPA	U. S. Environmental Protection Agency
ELAP	Environmental Laboratory Accreditation Program
GC	Gas Chromatography
GC/MS	Gas Chromatography/Mass Spectrometry
LUFT	Leaking Underground Fuel Tank
Μ	Modified
MCL	Maximum Contaminant Level is the highest permissible concentration of a
	substance allowed in drinking water as established by the USEPA.
MDL	Method Detection Limit
MPN	Most Probable Number
MRL	Method Reporting Limit
NA	Not Applicable
NC	Not Calculated
NCASI	National Council of the Paper Industry for Air and Stream Improvement
ND	Not Detected
NIOSH	National Institute for Occupational Safety and Health
PQL	Practical Quantitation Limit
RCRA	Resource Conservation and Recovery Act
SIM	Selected Ion Monitoring
TPH	Total Petroleum Hydrocarbons
tr	Trace level is the concentration of an analyte that is less than the PQL but
	greater than or equal to the MDL.

ALS Group USA, Corp. dba ALS Environmental

Analyst Summary report

Client:	Test Assured Network	Service Request: R1611666
Project:	Pine Valley Schools	

Sample Name:	Entry Point	Date Collected: 11/2/16
Lab Code:	R1611666-001	Date Received: 11/3/16
Sample Matrix:	Drinking Water	

Analysis Method 524.2		Extracted/Digested By	Analyzed By DLIPANI
Sample Name: Lab Code: Sample Matrix:	Elem. Utility Sink #20 R1611666-002 Drinking Water		te Collected: 11/2/16 hte Received: 11/3/16
Analysis Method		Extracted/Digested By	Analyzed By

200.8

CGILDAY



The preparation methods associated with this report are found in these tables unless discussed in the case narrative.

Water/Liquid Matrix

Solid/Soil,	Non-Aqueous	Matrix
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Analytical Method	Preparation Method
200.7	200.2
200.8	200.2
6010C	3005A/3010A
6020A	ILM05.3
9014 Cyanide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Reactivity	SW846 Ch7, 7.3.4.2
9034 Sulfide Acid	9030B
Soluble	
9056A Bomb (Halogens)	5050A
9066 Manual Distillation	9065
SM 4500-CN-E Residual	SM 4500-CN-G
Cyanide	
SM 4500-CN-E WAD	SM 4500-CN-I
Cyanide	

Analytical Method	Preparation Method
6010C	3050B
6020A	3050B
6010C TCLP (1311) extract	3005A/3010A
6010 SPLP (1312) extract	3005A/3010A
7196A	3060A
7199	3060A
9056A Halogens/Halides	5050
300.0 Anions/ 350.1/ 353.2/ SM 2320B/ SM 5210B/ 9056A Anions	DI extraction

For analytical methods not listed, the preparation method is the same as the analytical method reference.

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Volatile Organic Compounds by GC/MS

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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Test Assured Network	Service Request: R1611666
Project:	Pine Valley Schools	Date Collected: 11/02/16 11:25
Sample Matrix:	Drinking Water	Date Received: 11/03/16 18:10
Sample Name:	Entry Point	Units: ug/L
Lab Code:	R1611666-001	Basis: NA

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Bromodichloromethane	1.1	0.50	1	11/09/16 15:15	
Bromoform	4.9	0.50	1	11/09/16 15:15	
Chloroform	0.50 U	0.50	1	11/09/16 15:15	
Dibromochloromethane	3.3	0.50	1	11/09/16 15:15	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichlorobenzene-d4	88	70 - 130	11/09/16 15:15	
Bromofluorobenzene	84	70 - 130	11/09/16 15:15	





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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Test Assured Network	Service Request:	R1611666
Project:	Pine Valley Schools	Date Collected:	11/02/16 09:00
Sample Matrix:	Drinking Water	Date Received:	11/03/16 18:10
Sample Name: Lab Code:	Elem. Utility Sink #20 R1611666-002	Basis:	NA

Inorganic Parameters

	Analysis						
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	Q
Lead, Total	200.8	3.7	ug/L	1.0	1	11/12/16 13:39	



QC Summary Forms

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Volatile Organic Compounds by GC/MS

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ALS Group USA, Corp. dba ALS Environmental

QA/QC Report

Client:Test Assured NetworkProject:Pine Valley SchoolsSample Matrix:Drinking Water

Service Request: R1611666

SURROGATE RECOVERY SUMMARY Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

		1,2-Dichlorobenzene-d4	Bromofluorobenzene	
Sample Name	Lab Code	70 - 130	70 - 130	
Entry Point	R1611666-001	88	84	
Lab Control Sample	RQ1613752-03	98	97	
Duplicate Lab Control Sample	RQ1613752-04	104	99	
Method Blank	RQ1613752-05	109	88	

ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Test Assured Network	Service Request:	R1611666
Project:	Pine Valley Schools	Date Collected:	NA
Sample Matrix:	Drinking Water	Date Received:	NA
Sample Name: Lab Code:	Method Blank RQ1613752-05	Units: Basis:	U

Purgeable Organic Compounds by GC/MS

Analysis Method: 524.2

Analyte Name	Result	MRL	Dil.	Date Analyzed	Q
Bromodichloromethane	0.50 U	0.50	1	11/09/16 14:03	
Bromoform	0.50 U	0.50	1	11/09/16 14:03	
Chloroform	0.50 U	0.50	1	11/09/16 14:03	
Dibromochloromethane	0.50 U	0.50	1	11/09/16 14:03	

Surrogate Name	% Rec	Control Limits	Date Analyzed	Q
1,2-Dichlorobenzene-d4	109	70 - 130	11/09/16 14:03	
Bromofluorobenzene	88	70 - 130	11/09/16 14:03	





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ALS Group USA, Corp. dba ALS Environmental

Analytical Report

Client:	Test Assured Network	Service Request:	R1611666
Project:	Pine Valley Schools	Date Collected:	NA
Sample Matrix:	Drinking Water	Date Received:	NA
Sample Name: Lab Code:	Method Blank R1611666-MB	Basis:	NA

Inorganic Parameters

	Analysis						
Analyte Name	Method	Result	Units	MRL	Dil.	Date Analyzed	0
Lead, Total	200.8	1.0 U	ug/L	1.0	1	11/12/16 12:12	



Subcontracted Analytical Parameters

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December 06, 2016

Ms. Lisa Reyes ALS Environmental Columbia 1565 Jefferson Road Building 300 Rochester, NY 14623

RE: Project: R1611666 Pace Project No.: 30201894

Dear Ms. Reyes:

Enclosed are the analytical results for sample(s) received by the laboratory on November 08, 2016. 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,

Calino a. Fornio

Carin Ferris carin.ferris@pacelabs.com Project Manager

Enclosures



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: R1611666 Pace Project No.: 30201894

Pennsylvania Certification IDs

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601 L-A-B DOD-ELAP Accreditation #: L2417 Alabama Certification #: 41590 Arizona Certification #: AZ0734 Arkansas Certification California Certification #: 04222CA Colorado Certification Connecticut Certification #: PH-0694 Delaware Certification Florida/TNI Certification #: E87683 Georgia Certification #: C040 Guam Certification Hawaii Certification Idaho Certification Illinois Certification Indiana Certification Iowa Certification #: 391 Kansas/TNI Certification #: E-10358 Kentucky Certification #: 90133 Louisiana DHH/TNI Certification #: LA140008 Louisiana DEQ/TNI Certification #: 4086 Maine Certification #: PA00091 Maryland Certification #: 308 Massachusetts Certification #: M-PA1457 Michigan/PADEP Certification Missouri Certification #: 235

Montana Certification #: Cert 0082 Nebraska Certification #: NE-05-29-14 Nevada Certification #: PA014572015-1 New Hampshire/TNI Certification #: 2976 New Jersey/TNI Certification #: PA 051 New Mexico Certification #: PA01457 New York/TNI Certification #: 10888 North Carolina Certification #: 42706 North Dakota Certification #: R-190 Oregon/TNI Certification #: PA200002 Pennsylvania/TNI Certification #: 65-00282 Puerto Rico Certification #: PA01457 Rhode Island Certification #: 65-00282 South Dakota Certification Tennessee Certification #: TN2867 Texas/TNI Certification #: T104704188-14-8 Utah/TNI Certification #: PA014572015-5 USDA Soil Permit #: P330-14-00213 Vermont Dept. of Health: ID# VT-0282 Virgin Island/PADEP Certification Virginia/VELAP Certification #: 460198 Washington Certification #: C868 West Virginia DEP Certification #: 143 West Virginia DHHR Certification #: 9964C Wisconsin Certification Wyoming Certification #: 8TMS-L

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SAMPLE SUMMARY

30201894001	Entry Point	Drinking Water	11/02/16 11:25	11/08/16 09:50
Lab ID	Sample ID	Matrix	Date Collected	Date Received
Pace Project No	o.: 30201894			
Project:	R1611666			

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SAMPLE ANALYTE COUNT

Project: R1611666 Pace Project No.: 30201894

Lab ID	Sample ID	Method	Analysts	Analytes Reported	
30201894001	Entry Point	EPA 900.0	NEG	2	
		EPA 903.1	ACM	1	
		EPA 904.0	JLW	1	
		ASTM D5174-97	RMK	1	

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PROJECT NARRATIVE

Project: R1611666 Pace Project No.: 30201894

Method: EPA 900.0

 Description:
 900.0 Gross Alpha/Beta

 Client:
 ALS Environmental Columbia

 Date:
 December 06, 2016

General Information:

1 sample was analyzed for EPA 900.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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PROJECT NARRATIVE

Project: R1611666 Pace Project No.: 30201894

Method: EPA 903.1

Description:903.1 Radium 226Client:ALS Environmental ColumbiaDate:December 06, 2016

General Information:

1 sample was analyzed for EPA 903.1. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

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PROJECT NARRATIVE

Project: R1611666 Pace Project No.: 30201894

Method: EPA 904.0

Description:904.0 Radium 228Client:ALS Environmental ColumbiaDate:December 06, 2016

General Information:

1 sample was analyzed for EPA 904.0. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

REPORT OF LABORATORY ANALYSIS

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Pace Analytical

PROJECT NARRATIVE

Project: R1611666 Pace Project No.: 30201894

Method: ASTM D5174-97

Description:D517497 Total Uranium KPAClient:ALS Environmental ColumbiaDate:December 06, 2016

General Information:

1 sample was analyzed for ASTM D5174-97. All samples were received in acceptable condition with any exceptions noted below or on the chain-of custody and/or the sample condition upon receipt form (SCUR) attached at the end of this report.

Hold Time:

The samples were analyzed within the method required hold times with any exceptions noted below.

Method Blank:

All analytes were below the report limit in the method blank, where applicable, with any exceptions noted below.

Laboratory Control Spike:

All laboratory control spike compounds were within QC limits with any exceptions noted below.

Matrix Spikes:

All percent recoveries and relative percent differences (RPDs) were within acceptance criteria with any exceptions noted below.

Additional Comments:

This data package has been reviewed for quality and completeness and is approved for release.

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ANALYTICAL RESULTS - RADIOCHEMISTRY

Project: R1611666 Pace Project No.: 30201894

Sample: En	try Point	Lab ID: 3020189400	1 Collected: 11/02/16 11:25	Received:	11/08/16 09:50	Matrix: Drinking	Water
PWS:		Site ID:	Sample Type:			Ū.	
Comments:	 Sample collection dates a Upon receipt at the labora 2 for radiochemistry analy The sampler's name and s 	tory, 3 mls of nitric acid sis.	nt on the sample containers. were added to the sample to me on the COC.	eet the sampl	e preservation re	quirement of pH	
	Parameters	Method	Act + Linc (MDC) Carr Trac	Unite	Applyzod	CASNO	Qual

Parameters	Method	Act ± Unc (MDC) Carr Trac	Units	Analyzed	CAS No.	Qual
Gross Alpha	EPA 900.0	0.599 ± 1.19 (2.53) C:NA T:NA	pCi/L	11/22/16 19:21	12587-46-1	
Gross Beta	EPA 900.0	1.71 ± 0.749 (1.35) C:NA T:NA	pCi/L	11/22/16 19:21	12587-47-2	
Radium-226	EPA 903.1	0.585 ± 0.429 (0.543) C:NA T:97%	pCi/L	12/05/16 10:41	13982-63-3	
Radium-228	EPA 904.0	0.703 ± 0.392 (0.748) C:68% T:82%	pCi/L	12/05/16 11:46	15262-20-1	
Total Uranium	ASTM D5174-97	0.025 ± 0.001 (0.193) C:NA T:NA	ug/L	12/05/16 17:22	7440-61-1	

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QUALITY CONTROL - RADIOCHEMISTRY

Project:	R1611666					
Pace Project No.:	30201894					
QC Batch:	241309		Analysis Method:	EPA 904.0		
QC Batch Method:	EPA 904.0		Analysis Description:	904.0 Radiu	Jm 228	
Associated Lab Sar	nples: 30201894	4001				
METHOD BLANK:	1186280		Matrix: Water			
Associated Lab San	nples: 30201894	4001				
Paran	neter	Act ±	Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-228		0.346 ± 0.388	(0.811) C:73% T:76%	pCi/L	12/05/16 11:44	

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 - RADIOCHEMISTRY

Project: R16	11666					
Pace Project No.: 302	01894					
QC Batch: 24	1308		Analysis Method:	EPA 903.1		
QC Batch Method: El	PA 903.1		Analysis Description:	903.1 Radiu	um-226	
Associated Lab Samples	30201894	4001				
METHOD BLANK: 118	6278		Matrix: Water			
Associated Lab Samples	30201894	4001				
Parameter	8	Act ± L	Inc (MDC) Carr Trac	Units	Analyzed	Qualifiers
Radium-226		0 105 + 0 000	(0.741) C:NA T:94%	pCi/L	12/05/16 10:23	

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 - RADIOCHEMISTRY

Project:	R1611666						
Pace Project No.:	30201894						
QC Batch:	240317		Analysis Method:	ASTM D517	74-97		
QC Batch Method:	ASTM D5174-97		Analysis Description:	D5174.97 T	otal Uranium KPA		
Associated Lab Sar	mples: 30201894	001					
METHOD BLANK:	1181133		Matrix: Water				
Associated Lab Sar	mples: 30201894	001					
Parar	neter	Act ±	Unc (MDC) Carr Trac	Units	Analyzed	Qualifiers	
Total Uranium		0.136 ± 0.006	(0.193) C:NA T:NA	ug/L	11/30/16 16:57		

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 - RADIOCHEMISTRY

R16116	66							
302018	94							
24069	7		Analysis Method	1:	EPA 900.0			
EPA 9	00.0		Analysis Descrip	otion:	900.0 Gross	Alpha/Beta		
oles:	302018940	01						
1182784	4		Matrix: Wa	ater				
oles:	302018940	01						
eter		Act ± U	Jnc (MDC) Carr Trac		Units	Analyzed	Qualifiers	
		0.154 ± 0.662	(1.88) C:NA T:NA		pCi/L	11/25/16 08:46		
	(0.243 ± 0.760	(1.80) C:NA T:NA		pCi/L	11/25/16 08:46		
	302018 24069 EPA 9 bles: 118278- bles:	1182784 oles: 302018940 eter	30201894 240697 EPA 900.0 bles: 30201894001 1182784 bles: 30201894001 eter Act ± 0 -0.154 ± 0.662	30201894 240697 Analysis Method EPA 900.0 Analysis Descrip oles: 30201894001 1182784 Matrix: Wa oles: 30201894001 eter Act ± Unc (MDC) Carr Trac	30201894 240697 Analysis Method: EPA 900.0 Analysis Description: oles: 30201894001 1182784 Matrix: Water oles: 30201894001 eter Act ± Unc (MDC) Carr Trac -0.154 ± 0.662 (1.88) C:NA T:NA	30201894 240697 Analysis Method: EPA 900.0 EPA 900.0 Analysis Description: 900.0 Gross obles: 30201894001 900.0 Gross 1182784 Matrix: Water obles: 30201894001 eter Act ± Unc (MDC) Carr Trac Units -0.154 ± 0.662 (1.88) C:NA T:NA pCi/L	30201894 240697 Analysis Method: EPA 900.0 EPA 900.0 Analysis Description: 900.0 Gross Alpha/Beta obles: 30201894001 900.0 Gross Alpha/Beta 1182784 Matrix: Water obles: 30201894001 eter Act ± Unc (MDC) Carr Trac Units Analyzed -0.154 ± 0.662 (1.88) C:NA T:NA pCi/L 11/25/16 08:46	30201894 240697 Analysis Method: EPA 900.0 EPA 900.0 Analysis Description: 900.0 Gross Alpha/Beta obles: 30201894001 1182784 Matrix: Water obles: 30201894001 eter Act ± Unc (MDC) Carr Trac Units Analyzed Qualifiers -0.154 ± 0.662 (1.88) C:NA T:NA pCi/L 11/25/16 08:46

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: R1611666 Pace Project No.: 30201894

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.

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.

Act - Activity

Unc - Uncertainty: SDWA = 1.96 sigma count uncertainty, all other matrices = Expanded Uncertainty (95% confidence interval). Gamma Spec = Expanded Uncertainty (95.4% Confidence Interval)

(MDC) - Minimum Detectable Concentration

Trac - Tracer Recovery (%)

Carr - Carrier Recovery (%)

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

TNI - The NELAC Institute.

REPORT OF LABORATORY ANALYSIS

ALS Contact: Lisa Reyes	114 D2174	24	x _ CO1		rements Invoice Information		II. Results + QC summaries III. Results + QC and Calibration Summaries 58R1611666	IV. Data Validation Report with Raw Data	Bill to	ber:
8-8475	0.500 0.500 0.4,0 0.4,0		X X		Report Requirements	Its Only	II. Kesults + QC Summaries III. Results + QC and Calibri	a Validation Rej	N N	Airbill Number:
Custody 80 · FAX 585-28	Radioact 900.0 Adium 226	2	x		~	X I. Results Only	II. Kesu III. Res	IV. Dat	PQL/MDL/J EDD	0450
Environmental Chain of Custody Building 300 • Rochester, NY 14623 • 585-288-5380 • FAX 585-288-8475		Lab ID	Pace PA		Turnaround Requirements	RUSH (Surcharges Apply)	PLEASE CIRCLE WORK DAYS 1 2 3 4 5	D	Date:	11-2-11
nental ochester, NY		Sample te Time	1125		Turnaroun	RUSH (Su	ASE CIRCI 1 2	STANDARD	Requested FAX Date:	er this
VITODI ing 300 • Ro		Sa Date	11/2/16				PLE	\triangleleft	Requ	Steve
ALS En 1565 Jefferson Rd, Build		Matrix	Drinking Water							Received By: KWILLA HEL
1565 Je		# of Cont.	7						zed for Prep Only	8441 /211
	R1611666 Lisa Reyes LAB QAP	le ID	Point		mments				P - Test is Authorized for Prep Only	w when in the
		Sample ID	I Entry Point		actions/Cor				n Hold	1× 1
	Project Number: Project Manager: QAP:	Lab Code	-R1611666-001	40 of 42	Special Instructions/Comments				H - Test is On Hold	Red By: Ref 1 ab

Page 1

*

1 ALS Contact: Lisa Reyes 1 Shipping: 1 Overnight 2nd Day Ground 1 1 į Bill to Client Account ALS Environmental Chain of Custody 1565 Jefferson Rd, Building 300 • Rochester, NY 14623 • 585-288-5380 • FAX 585-288-8475 Instructions: Dry Ice No Ice Ice www.alsglobal.com An ALS Limited Company ALS Group USA, Corp. R1611666 0 Date Date T ŝ Ship To: Pace PA Pace Analytical Services Greensburg, PA 15601 1638 Roseytown Road SMO Suites 2,3, & 4 PC ŧ ì R1611666 Lisa Reyes LAB QAP ; Project Manager: Project Number: Comments: . : . : . OAP: 41 of 42 Page 16 of 17

Sample Condition Upon Rece	eipt F	Pittst	ourg	
Face Analytical Client Name:	A	LS		Project # 30201894
Courier: ロ Fed Ex ロ UPS ロ USPS ロ Clier Tracking #: <u>(472(なが))つ 1(602</u>		-		
Custody Seal on Cooler/Box Present: Vyes		по	Sea	s intact: 🗹 yes 🗋 no
Thermometer Used NA	Туре	of Ice:	: We	t Blue (None)
Cooler Temperature Observed Temp N	YA	۰c	Cor	rection Factor: NA °C Final Temp: NA °C
Temp should be above freezing to 6°C		-		
				Date and Initials of person examining contents: XH 11-5-14
Comments:	Yes	No	N/A	
Chain of Custody Present:	1			1.
Chain of Custody Filled Out:	1			2.
Chain of Custody Relinquished:	1			3.
Sampler Name & Signature on COC:				4.
Sample Labels match COC:		1		5. NO time or date on samples
-Includes date/time/ID/Analysis Matrix:	-			
Samples Arrived within Hold Time:	11			6.
Short Hold Time Analysis (<72hr remaining):		1		7.
Rush Turn Around Time Requested:		1		8.
Sufficient Volume:	V			9.
Correct Containers Used:	V			10.
-Pace Containers Used:		V		
Containers Intact:	\bigvee			11.
Filtered volume received for Dissolved tests			1	12.
All containers needing preservation have been checked.	1			13. Added 3. UML HNO3 to pottles
All containers needing preservation are found to be in compliance with EPA recommendation.		1	L	
				Initial when KAA Date/time of 11-8-14 1555
exceptions: VOA, coliform, TOC, O&G, Phenolics				
				Lot # of added preservative DLI Le-1122
Headspace in VOA Vials (>6mm):			1	14.
Trip Blank Present:			1	15.
Trip Blank Custody Seals Present			/	
Rad Aqueous Samples Screened > 0.5 mrem/hr		/		Initial when KH Date: 11-8-14
Client Notification/ Resolution:				
Person Contacted:		1	Date/	Fime: Contacted By:
Comments/ Resolution:				
2				

Note: Whenever there is a discrepancy affecting North Carolina compliance samples, a copy of this form will be sent to the North Carolina DEHNR Certification Office (i.e. out of hold, incorrect preservative, out of temp, incorrect containers)

*PM review is documented electronically in LIMS. When the Project Manager closes the SRF Review schedule in LIMS. The review is in the Status section of the Workorder Edit Screen.

J:\QAQC\Master\Document Management\Sample Mgt\Sample Condition Upon Receipt Pittsburgh (C056-2 25Jul2016)