

February 27, 2020

Gordon Eddington
MANCHESTER-SHORTSVILLE WWTP
3890 RT. 96
MANCHESTER, NY 14504

RE: Project: COMPOST 2/11
Pace Project No.: 70121472

Dear Gordon Eddington:

Enclosed are the analytical results for sample(s) received by the laboratory on February 12, 2020. 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.

Some analyses have been subcontracted outside of the Pace Network. The subcontracted laboratory report has been attached.

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

Sincerely,



Rebeka K. Smith
rebeka.smith@pacelabs.com
(631)694-3040
Project Manager

Enclosures

cc: Debbie Chase, MANCHESTER-SHORTSVILLE WWTP



REPORT OF LABORATORY ANALYSIS

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CERTIFICATIONS

Project: COMPOST 2/11
Pace Project No.: 70121472

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601
ANAB DOD-ELAP Rad Accreditation #: L2417
Alabama Certification #: 41590
Arizona Certification #: AZ0734
Arkansas Certification
California Certification #: 04222CA
Colorado Certification #: PA01547
Connecticut Certification #: PH-0694
Delaware Certification
EPA Region 4 DW Rad
Florida/TNI Certification #: E87683
Georgia Certification #: C040
Florida: Cert E871149 SEKS WET
Guam Certification
Hawaii Certification
Idaho Certification
Illinois Certification
Indiana Certification
Iowa Certification #: 391
Kansas/TNI Certification #: E-10358
Kentucky Certification #: KY90133
KY WW Permit #: KY0098221
KY WW Permit #: KY0000221
Louisiana DHH/TNI Certification #: LA180012
Louisiana DEQ/TNI Certification #: 4086
Maine Certification #: 2017020
Maryland Certification #: 308
Massachusetts Certification #: M-PA1457
Michigan/PADEP Certification #: 9991

Missouri Certification #: 235
Montana Certification #: Cert0082
Nebraska Certification #: NE-OS-29-14
Nevada Certification #: PA014572018-1
New Hampshire/TNI Certification #: 297617
New Jersey/TNI Certification #: PA051
New Mexico Certification #: PA01457
New York/TNI Certification #: 10888
North Carolina Certification #: 42706
North Dakota Certification #: R-190
Ohio EPA Rad Approval: #41249
Oregon/TNI Certification #: PA200002-010
Pennsylvania/TNI Certification #: 65-00282
Puerto Rico Certification #: PA01457
Rhode Island Certification #: 65-00282
South Dakota Certification
Tennessee Certification #: 02867
Texas/TNI Certification #: T104704188-17-3
Utah/TNI Certification #: PA014572017-9
USDA Soil Permit #: P330-17-00091
Vermont Dept. of Health: ID# VT-0282
Virgin Island/PADEP Certification
Virginia/VELAP Certification #: 9526
Washington Certification #: C868
West Virginia DEP Certification #: 143
West Virginia DHHR Certification #: 9964C
Wisconsin Approve List for Rad
Wyoming Certification #: 8TMS-L

Pace Analytical Services Long Island

575 Broad Hollow Rd, Melville, NY 11747
New York Certification #: 10478 Primary Accrediting Body
New Jersey Certification #: NY158
Pennsylvania Certification #: 68-00350
Connecticut Certification #: PH-0435

Maryland Certification #: 208
Rhode Island Certification #: LAO00340
Massachusetts Certification #: M-NY026
New Hampshire Certification #: 2987

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: COMPOST 2/11

Pace Project No.: 70121472

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70121472001	COMPOST #6	EPA 6010C	JMW	10	PACE-MV
		EPA 7471B	JLN	1	PACE-MV
		ASTM D2216-92M	DND	1	PACE-MV
		SM22 2540G	DND	2	PACE-MV
		SM22 4500-P E	KM1	1	PACE-MV
		EPA 9045D	DND	2	PACE-MV
		EPA 350.1	JWL	1	PASI-PA
		EPA 351.2	AKS	1	PACE-MV
		EPA 9056A	BNK	2	PACE-MV

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COMPOST 2/11

Pace Project No.: 70121472

Sample: COMPOST #6 **Lab ID: 70121472001** Collected: 02/11/20 09:40 Received: 02/12/20 10:15 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
6010 MET ICP		Analytical Method: EPA 6010C Preparation Method: EPA 3050B						
Arsenic	ND	mg/kg	1.3	1	02/13/20 10:47	02/14/20 14:29	7440-38-2	
Cadmium	0.44	mg/kg	0.32	1	02/13/20 10:47	02/14/20 14:29	7440-43-9	
Chromium	10.7	mg/kg	1.3	1	02/13/20 10:47	02/14/20 14:29	7440-47-3	
Copper	300	mg/kg	3.2	1	02/13/20 10:47	02/14/20 14:29	7440-50-8	
Lead	17.3	mg/kg	0.65	1	02/13/20 10:47	02/14/20 14:29	7439-92-1	
Molybdenum	2.8	mg/kg	2.6	1	02/13/20 10:47	02/14/20 14:29	7439-98-7	
Nickel	7.4	mg/kg	5.2	1	02/13/20 10:47	02/14/20 14:29	7440-02-0	
Potassium	2390	mg/kg	646	1	02/13/20 10:47	02/14/20 14:29	7440-09-7	
Selenium	3.1	mg/kg	1.3	1	02/13/20 10:47	02/14/20 14:29	7782-49-2	
Zinc	367	mg/kg	2.6	1	02/13/20 10:47	02/14/20 14:29	7440-66-6	
7471 Mercury		Analytical Method: EPA 7471B Preparation Method: EPA 7471B						
Mercury	ND	mg/kg	0.072	1	02/17/20 11:58	02/17/20 14:16	7439-97-6	
Percent Moisture		Analytical Method: ASTM D2216-92M						
Percent Moisture	57.4	%	0.10	1		02/13/20 23:33		
2540G Total Fixed Vol Solids		Analytical Method: SM22 2540G						
Total Solids	2.5	%	0.10	1		02/13/20 23:09		N3
Total Volatile Solids	78.3	%	0.10	1		02/13/20 23:09		N3
4500PE Total Phosphorus		Analytical Method: SM22 4500-P E Preparation Method: SM22 4500-P B						
Phosphorus	13900	mg/kg	618	100	02/12/20 13:51	02/12/20 15:46	7723-14-0	M6
Corrosivity pH, <20% Water		Analytical Method: EPA 9045D						
pH	5.6	Std. Units	0.10	1		02/12/20 20:12		
Temperature, Water (C)	25.0	deg C	0.10	1		02/12/20 20:12		
350.1 Ammonia		Analytical Method: EPA 350.1 Preparation Method: EPA 350.1						
Nitrogen, Ammonia	7550	mg/kg	97.1	10	02/26/20 09:15	02/26/20 15:37	7664-41-7	ML
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2						
Nitrogen, Kjeldahl, Total	4390	mg/kg	587	20	02/25/20 09:36	02/26/20 16:56	7727-37-9	
9056 IC Anions 48hr		Analytical Method: EPA 9056A Preparation Method: EPA 9056A						
Nitrate as N	2500	mg/kg	116	50	02/19/20 22:01	02/20/20 10:27	14797-55-8	
Nitrite as N	ND	mg/kg	2.3	1	02/19/20 22:01	02/20/20 10:10	14797-65-0	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: COMPOST 2/11

Pace Project No.: 70121472

QC Batch: 149820	Analysis Method: EPA 7471B
QC Batch Method: EPA 7471B	Analysis Description: 7471 Mercury
Associated Lab Samples: 70121472001	

METHOD BLANK: 718729 Matrix: Solid
Associated Lab Samples: 70121472001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.033	02/17/20 14:06	

LABORATORY CONTROL SAMPLE: 718730

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.17	0.16	94	80-120	

MATRIX SPIKE SAMPLE: 718731

Parameter	Units	70121336001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	<0.039	0.17	0.17	97	80-120	

SAMPLE DUPLICATE: 718732

Parameter	Units	70121336001 Result	Dup Result	RPD	Qualifiers
Mercury	mg/kg	<0.039	ND		

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: COMPOST 2/11
Pace Project No.: 70121472

QC Batch: 149446 Analysis Method: EPA 6010C
QC Batch Method: EPA 3050B Analysis Description: 6010 MET
Associated Lab Samples: 70121472001

METHOD BLANK: 716569 Matrix: Solid
Associated Lab Samples: 70121472001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	0.50	02/14/20 02:09	
Cadmium	mg/kg	ND	0.12	02/14/20 02:09	
Chromium	mg/kg	ND	0.50	02/14/20 02:09	
Copper	mg/kg	ND	1.2	02/14/20 02:09	
Lead	mg/kg	ND	0.25	02/14/20 02:09	
Molybdenum	mg/kg	ND	1.0	02/14/20 02:09	
Nickel	mg/kg	ND	2.0	02/14/20 02:09	
Potassium	mg/kg	ND	250	02/14/20 02:09	
Selenium	mg/kg	ND	0.50	02/14/20 02:09	
Zinc	mg/kg	ND	1.0	02/14/20 02:09	

LABORATORY CONTROL SAMPLE: 716570

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	125	139	111	80-120	
Cadmium	mg/kg	37.7	38.8	103	80-120	
Chromium	mg/kg	58.3	64.8	111	80-120	
Copper	mg/kg	78	84.1	108	80-120	
Lead	mg/kg	111	124	112	80-120	
Molybdenum	mg/kg	78	88.5	113	80-120	
Nickel	mg/kg	333	369	111	80-120	
Potassium	mg/kg	1970	2230	113	70-130	
Selenium	mg/kg	251	275	109	80-120	
Zinc	mg/kg	351	389	111	80-120	

MATRIX SPIKE SAMPLE: 716572

Parameter	Units	70121336001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	1.4	25.6	26.7	99	75-125	
Cadmium	mg/kg	<0.13	2.6	2.5	97	75-125	
Chromium	mg/kg	6.4	12.8	20.9	113	75-125	
Copper	mg/kg	6.4	12.8	18.6	95	75-125	
Lead	mg/kg	2.0	25.6	26.8	97	75-125	
Molybdenum	mg/kg	<1.0	25.6	25.6	100	75-125	
Nickel	mg/kg	6.0	12.8	18.4	97	75-125	
Potassium	mg/kg	408	2560	3780	132	75-125	
Selenium	mg/kg	<0.51	38.4	36.7	96	75-125	
Zinc	mg/kg	12.9	51.1	65.2	102	75-125	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: COMPOST 2/11

Pace Project No.: 70121472

SAMPLE DUPLICATE: 716571

Parameter	Units	70121336001 Result	Dup Result	RPD	Qualifiers
Arsenic	mg/kg	1.4	1.5	7	
Cadmium	mg/kg	<0.13	.02J		
Chromium	mg/kg	6.4	6.7	6	
Copper	mg/kg	6.4	7.6	16	
Lead	mg/kg	2.0	1.8	9	
Molybdenum	mg/kg	<1.0	ND		
Nickel	mg/kg	6.0	6.8	11	
Potassium	mg/kg	408	454	11	
Selenium	mg/kg	<0.51	ND		
Zinc	mg/kg	12.9	15.9	21	

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QUALITY CONTROL DATA

Project: COMPOST 2/11

Pace Project No.: 70121472

QC Batch: 149565

Analysis Method: ASTM D2216-92M

QC Batch Method: ASTM D2216-92M

Analysis Description: Dry Weight/Percent Moisture

Associated Lab Samples: 70121472001

SAMPLE DUPLICATE: 717513

Parameter	Units	70121781012 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	5.1	5.7	11	

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QUALITY CONTROL DATA

Project: COMPOST 2/11

Pace Project No.: 70121472

QC Batch: 149563

Analysis Method: SM22 2540G

QC Batch Method: SM22 2540G

Analysis Description: 2540G Tot Solids/Volatile/Fixed

Associated Lab Samples: 70121472001

SAMPLE DUPLICATE: 717511

Parameter	Units	70121406001 Result	Dup Result	RPD	Qualifiers
Total Solids	%	17.4	16.8	3	N3
Total Volatile Solids	%	60.1	60.2	0	N3

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: COMPOST 2/11
Pace Project No.: 70121472

QC Batch: 149200	Analysis Method: SM22 4500-P E
QC Batch Method: SM22 4500-P B	Analysis Description: 4500PE Soil Phosphorus
Associated Lab Samples: 70121472001	

METHOD BLANK: 715456
Associated Lab Samples: 70121472001

Matrix: Solid

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/kg	ND	2.5	02/12/20 15:46	

LABORATORY CONTROL SAMPLE: 715457

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/kg	25	24.2	97	85-115	

MATRIX SPIKE SAMPLE: 715905

Parameter	Units	70121472001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/kg	13900	61.1	15000	1770	75-125	M6

SAMPLE DUPLICATE: 715906

Parameter	Units	70121472001 Result	Dup Result	RPD	Qualifiers
Phosphorus	mg/kg	13900	14300	3	

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QUALITY CONTROL DATA

Project: COMPOST 2/11

Pace Project No.: 70121472

QC Batch: 149362

Analysis Method: EPA 9045D

QC Batch Method: EPA 9045D

Analysis Description: 9045D Corrosivity pH in Soil

Associated Lab Samples: 70121472001

SAMPLE DUPLICATE: 716225

Parameter	Units	70121472001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	5.6	5.6	0	
Temperature, Water (C)	deg C	25.0	25.0	0	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: COMPOST 2/11

Pace Project No.: 70121472

QC Batch:	385401	Analysis Method:	EPA 350.1
QC Batch Method:	EPA 350.1	Analysis Description:	350.1 Ammonia
Associated Lab Samples:	70121472001		

METHOD BLANK: 1867497 Matrix: Solid
Associated Lab Samples: 70121472001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/kg	ND	4.0	02/26/20 15:26	

LABORATORY CONTROL SAMPLE: 1867498

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/kg	160	165	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1867499 1867500

Parameter	70121472001		MS Spike	MSD Spike	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
	Units	Result	Conc.	Conc.							
Nitrogen, Ammonia	mg/kg	7550	383	366	7780	7300	61	-68	90-110	6	ML

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: COMPOST 2/11
Pace Project No.: 70121472

QC Batch: 150845 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 70121472001

METHOD BLANK: 723908 Matrix: Solid
Associated Lab Samples: 70121472001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	ND	12.5	02/26/20 16:54	

LABORATORY CONTROL SAMPLE: 723909

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	500	533	107	90-110	

MATRIX SPIKE SAMPLE: 723910

Parameter	Units	70121832001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	994	671	1860	129	90-110	M6

SAMPLE DUPLICATE: 723911

Parameter	Units	70121832001 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	994	949	5	

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QUALITY CONTROL DATA

Project: COMPOST 2/11

Pace Project No.: 70121472

QC Batch: 150251	Analysis Method: EPA 9056A
QC Batch Method: EPA 9056A	Analysis Description: 9056 IC Anions
Associated Lab Samples: 70121472001	

METHOD BLANK: 721023 Matrix: Solid

Associated Lab Samples: 70121472001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate as N	mg/kg	ND	1.0	02/20/20 08:13	
Nitrite as N	mg/kg	ND	1.0	02/20/20 08:13	

LABORATORY CONTROL SAMPLE: 721024

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/kg	10	9.6	96	90-110	
Nitrite as N	mg/kg	10	10.4	104	90-110	

MATRIX SPIKE SAMPLE: 721047

Parameter	Units	70121832001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/kg	932	672	1710	116	90-110	M6
Nitrite as N	mg/kg	<67.1	672	703	102	90-110	

SAMPLE DUPLICATE: 721046

Parameter	Units	70121832001 Result	Dup Result	RPD	Qualifiers
Nitrate as N	mg/kg	932	1050	12	
Nitrite as N	mg/kg	<67.1	ND		

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QUALIFIERS

Project: COMPOST 2/11

Pace Project No.: 70121472

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.

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

TNI - The NELAC Institute.

LABORATORIES

PACE-MV Pace Analytical Services - Melville

PASI-PA Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

M6 Matrix spike and Matrix spike duplicate recovery not evaluated against control limits due to sample dilution.

ML Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

N3 Accreditation is not offered by the relevant laboratory accrediting body for this parameter.

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: COMPOST 2/11
Pace Project No.: 70121472

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70121472001	COMPOST #6	EPA 3050B	149446	EPA 6010C	149478
70121472001	COMPOST #6	EPA 7471B	149820	EPA 7471B	149837
70121472001	COMPOST #6	ASTM D2216-92M	149565		
70121472001	COMPOST #6	SM22 2540G	149563		
70121472001	COMPOST #6	SM22 4500-P B	149200	SM22 4500-P E	149340
70121472001	COMPOST #6	EPA 9045D	149362		
70121472001	COMPOST #6	EPA 350.1	385401	EPA 350.1	385510
70121472001	COMPOST #6	EPA 351.2	150845	EPA 351.2	150873
70121472001	COMPOST #6	EPA 9056A	150251	EPA 9056A	150256

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 Required Client Information:		Section B Required Project Information:		Section C Invoice Information:	
Company: PACE ANALYTICAL		Report to:		Attention: <u>nysub@pacelabs.com</u>	
Address: 575 Broad Hollow Rd		Copy To:		Company Name:	
Melville, NY 11747				Address:	
Email To: <u>NYSUB@PACELABS.COM</u>		Purchase Order No: <u>021120RKS001</u>		Pace Quote Reference:	
Phone: Fax:		Project Name: <u>Manchester/Shortsville</u>		Pace Project Manager: <u>James Murphy</u>	
Requested Due Date/TAT:		Project Number:		Pace Profile #:	

REGULATORY AGENCY		
<input type="checkbox"/> NPDES	<input type="checkbox"/> GROUND WATER	<input type="checkbox"/> DRINKING WATER
<input type="checkbox"/> UST	<input type="checkbox"/> RCRA	<input checked="" type="checkbox"/> OTHER _____

SITE LOCATION	<input type="checkbox"/> GA	<input type="checkbox"/> IL	<input type="checkbox"/> N	<input type="checkbox"/> MI	<input type="checkbox"/> NC
	<input type="checkbox"/> OH	<input type="checkbox"/> SC	<input type="checkbox"/> WI	<input type="checkbox"/> OTHER <u>NY</u>	

ITEM #	Section D Required Client Information SAMPLE ID (A-Z, 0-9 / -) Sample IDs MUST BE UNIQUE	Valid Matrix Codes MATRIX CODE DRINKING WATER DW WATER W WASTE WATER WW SEWAGE S SLURRY SL SOLID SO OTHER O SOLID SL	MATRIX CODE	SAMPLE TYPE G=GRAB C=COMP	COLLECTED				SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives							Filtered (Y/N)	Requested Analysis:	Pace Project No. Lab I.D.	
					COMPOSITE START		COMPOSITE END/GRAB				Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃	Methanol				Na ₂ SO ₄
					DATE	TIME	DATE	TIME													
1	Compost #6 (Six)		SL	G	2/11/20	9:39			1							X					
2																					
3																					
4																					
5																					
6																					
7																					
8																					
9																					
10																					
11																					
12																					

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS				
SALMONELLA SUBBED TO LSL	<i>Hubert Pace</i>	2/11/20	12:00	<i>Hubert Pace</i>	2/12/20	10:15	398	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
								<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
									<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

SAMPLER NAME AND SIGNATURE		Temp in °C	Received on Ice	Custody Sealed Cooler	Samples Intact
PRINT Name of SAMPLER:					
SIGNATURE of SAMPLER:	DATE Signed (MM / DD / YY)				



Sample Condition Upon Receipt

WO#: 70121472

Client Name:

HR 2412 MCSV

PM: RKS Due Date: 02/26/20

CLIENT: MCSV

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 333 43136 9419

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

Temperature Blank Present: Yes No

Packing Material: Bubble Wrap Bubble Bags Ziploc None Other

Type of Ice: Wet Blue None

Thermometer Used: T091 Correction Factor: +0.2

Samples on ice, cooling process has begun

Cooler Temperature (°C): 3.8 Cooler Temperature Corrected (°C): 4.0

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil N/A, water sample

Date and Initials of person examining contents: HR 2412

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? YES NO

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

				COMMENTS:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No	<input type="checkbox"/> N/A	4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes	<input checked="" type="checkbox"/> No		7.
Sufficient Volume: (Triple volume provided for MS/MSD):	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		
Containers Intact:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes	<input type="checkbox"/> No		12.
-includes date/time/ID/Analysis Matrix <input checked="" type="checkbox"/> SL <input type="checkbox"/> WT <input type="checkbox"/> Oil				
All containers needing preservation have been checked	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
pH paper Lot #				Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH > 9 Sulfide, NaOH > 12 Cyanide)	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	Initial when completed: Lot # of added preservative: Date/Time preservative added:
Exceptions: VOA, Coliform, TOC/DOC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis				
Samples checked for dechlorination:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	14. Positive for Res. Chlorine? Y N
KI starch test strips Lot #				
Residual chlorine strips Lot #				
Headspace in VOA Vials (>6mm).	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	15.
Trip Blank Present:	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes	<input type="checkbox"/> No	<input checked="" type="checkbox"/> N/A	
Pace Trip Blank Lot # (if applicable):				

Client Notification/ Resolution:

Field Data Required?

Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:



Life Science Laboratories, Inc.

Jennifer Aracri
PACE Analytical Inc.
575 Broad Hollow Rd
Melville, NY 11747 USA

Phone: (631) 694-3040

Authorization: PO# 021120RKS001

Laboratory Analysis Report

For

PACE Analytical Inc.

Client Project ID:

Manchester/Shortsville

LSL Project ID: **2002019**

Receive Date/Time: 02/11/20 11:58

Life Science Laboratories, Inc. warrants, to the best of its knowledge and belief, the accuracy of the analytical test results contained in this report. but makes no other warranty, expressed or implied, especially no warranties of merchantability or fitness for a particular purpose. By the Client's acceptance and/or use of this report, the Client agrees that LSL is hereby released from any and all liabilities, claims, damages or causes of action affecting or which may affect the Client as regards to the results contained in this report. The Client further agrees that the only remedy available to the Client in the event of proven non-conformity with the above warranty shall be for LSL to re-perform the analytical test(s) at no charge to the Client. The data contained in this report are for the exclusive use of the Client to whom it is addressed, and the release of these data to any other party, or the use of the name, trademark or service mark of Life Science Laboratories, Inc. especially for the use of advertising to the general public, is strictly prohibited without express prior written consent of Life Science Laboratories, Inc. This report may only be reproduced in its entirety. No partial duplication is allowed. The Chain of Custody and the Shipment Condition documents submitted with these samples are considered by LSL to be an appendix of this report and may contain data qualifiers and specific information that pertains to the samples included in this report. The analytical result(s) in this report are only representative of the sample(s) submitted for analysis. LSL makes no claim of a sample's representativeness, or integrity, if sampling was not performed by LSL personnel.

Life Science Laboratories, Inc.

LSL Central Lab
5854 Butternut Drive
East Syracuse, NY 13057
Tel. (315) 445-1900
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LSL Finger Lakes Lab
16 N. Main St., PO Box 424
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Tel. (585) 213-4090
Fax (585) 213-4192

LSL Southern Tier Office
Cuba, NY
Tel. (585) 209-4032

LSL MidLakes Office
Canandaigua, NY
Tel. (585) 728-3320

This report was reviewed by:


Kristin E. Carpenter, Quality Staff

Date:

02/26/20

A copy of this report was sent to:

-- LABORATORY ANALYSIS REPORT --

PACE Analytical Inc. Melville, NY

Sample ID: Compost #6 (six) **LSL Sample ID:** 2002019-001

Location:

Sampled: 02/11/20 9:39 **Sampled By:** RP

Sample Matrix: SHW Dry Wt, Compost

Analytical Method	Prep Method	Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result Units			
(1) EPA 1682(2014) Salmonella by MSR/V				
Salmonella	<3 MPN/4g Dry		2/11/20 15:10	DA/DA
<i>The NYS DOH ELAP does not offer certification for this analyte.</i>				
(1) SM 2540 B-2011 Total Solids				
Total Solids @ 103-105 C	45 %		2/13/20	ARJ
<i>The NYS DOH ELAP does not offer certification for this analyte in this matrix.</i>				

Analysis performed at: (1) LSL Central, (2) LSL North, (3) LSL Finger Lakes

February 26, 2020

Ms. Rebeka Smith
Pace Analytical Melville
575 Broad Hollow Road
Melville, NY 11747

RE: Project: 70121472
Pace Project No.: 30349868

Dear Ms. Smith:

Enclosed are the analytical results for sample(s) received by the laboratory on February 13, 2020. 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,



Samantha Bayura
samantha.bayura@pacelabs.com
(724)850-5622
Project Manager

Enclosures

cc: Ms. Jennifer Aracri, Pace Analytical Melville



REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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CERTIFICATIONS

Project: 70121472

Pace Project No.: 30349868

Pace Analytical Services Pennsylvania

1638 Roseytown Rd Suites 2,3&4, Greensburg, PA 15601

ANAB DOD-ELAP Rad Accreditation #: L2417

Alabama Certification #: 41590

Arizona Certification #: AZ0734

Arkansas Certification

California Certification #: 04222CA

Colorado Certification #: PA01547

Connecticut Certification #: PH-0694

Delaware Certification

EPA Region 4 DW Rad

Florida/TNI Certification #: E87683

Georgia Certification #: C040

Guam Certification

Florida: Cert E871149 SEKS WET

Hawaii Certification

Idaho Certification

Illinois Certification

Indiana Certification

Iowa Certification #: 391

Kansas/TNI Certification #: E-10358

Kentucky Certification #: KY90133

KY WW Permit #: KY0098221

KY WW Permit #: KY0000221

Louisiana DHH/TNI Certification #: LA180012

Louisiana DEQ/TNI Certification #: 4086

Maine Certification #: 2017020

Maryland Certification #: 308

Massachusetts Certification #: M-PA1457

Michigan/PADEP Certification #: 9991

Missouri Certification #: 235

Montana Certification #: Cert0082

Nebraska Certification #: NE-OS-29-14

Nevada Certification #: PA014572018-1

New Hampshire/TNI Certification #: 297617

New Jersey/TNI Certification #: PA051

New Mexico Certification #: PA01457

New York/TNI Certification #: 10888

North Carolina Certification #: 42706

North Dakota Certification #: R-190

Ohio EPA Rad Approval: #41249

Oregon/TNI Certification #: PA200002-010

Pennsylvania/TNI Certification #: 65-00282

Puerto Rico Certification #: PA01457

Rhode Island Certification #: 65-00282

South Dakota Certification

Tennessee Certification #: 02867

Texas/TNI Certification #: T104704188-17-3

Utah/TNI Certification #: PA014572017-9

USDA Soil Permit #: P330-17-00091

Vermont Dept. of Health: ID# VT-0282

Virgin Island/PADEP Certification

Virginia/VELAP Certification #: 9526

Washington Certification #: C868

West Virginia DEP Certification #: 143

West Virginia DHHR Certification #: 9964C

Wisconsin Approve List for Rad

Wyoming Certification #: 8TMS-L

REPORT OF LABORATORY ANALYSIS

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SAMPLE ANALYTE COUNT

Project: 70121472

Pace Project No.: 30349868

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70121472001	COMPOST #6	ASTM D2974-87	IR00	1	PASI-PA
		EPA 350.1	JWL	1	PASI-PA

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: 70121472

Pace Project No.: 30349868

Sample: COMPOST #6 **Lab ID: 70121472001** Collected: 02/11/20 09:40 Received: 02/13/20 11:30 Matrix: Solid

Results reported on a "dry weight" basis and are adjusted for percent moisture, sample size and any dilutions.

Parameters	Results	Units	Report Limit	DF	Prepared	Analyzed	CAS No.	Qual
Percent Moisture								
Analytical Method: ASTM D2974-87								
Percent Moisture	57.4	%	0.10	1		02/14/20 13:30		
350.1 Ammonia								
Analytical Method: EPA 350.1 Preparation Method: EPA 350.1								
Nitrogen, Ammonia	7550	mg/kg	97.1	10	02/26/20 09:15	02/26/20 15:37	7664-41-7	ML

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: 70121472
Pace Project No.: 30349868

QC Batch: 385401 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 70121472001

METHOD BLANK: 1867497 Matrix: Solid
Associated Lab Samples: 70121472001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/kg	ND	4.0	02/26/20 15:26	

LABORATORY CONTROL SAMPLE: 1867498

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/kg	160	165	103	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1867499 1867500

Parameter	70121472001		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec	% Rec Limits	RPD	Qual
	Units	Result									
Nitrogen, Ammonia	mg/kg	7550	383	366	7780	7300	61	-68	90-110	6	ML

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: 70121472
Pace Project No.: 30349868

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.

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

TNI - The NELAC Institute.

LABORATORIES

PASI-PA Pace Analytical Services - Greensburg

ANALYTE QUALIFIERS

ML Matrix spike recovery and/or matrix spike duplicate recovery was below laboratory control limits. Result may be biased low.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: 70121472
Pace Project No.: 30349868

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70121472001	COMPOST #6	ASTM D2974-87			
70121472001	COMPOST #6	EPA 350.1	385401	EPA 350.1	385510

REPORT OF LABORATORY ANALYSIS

This report shall not be reproduced, except in full,
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WO#: 70121472

Client Name:

HQ 210 MCSV

PM: RKS Due Date: 02/26/20

CLIENT: MCSV

30349868

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 777 43159419
 Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No

Temperature Blank Present: Yes No

Packing Material: Bubble Wrap Bubble Bags Ziploc None Other

Type of Ice: Wet Blue None

Thermometer Used: 14091 Correction Factor: +0.2

Samples on ice, cooling process has begun

Cooler Temperature (°C): 3.8 Cooler Temperature Corrected (°C): 4.0

Date/Time 5035A kits placed in freezer

Temp should be above freezing to 6.0°C

USDA Regulated Soil (N/A, water sample)

Date and Initials of person examining contents: HQ 210

Did samples originate in a quarantine zone within the United States: AL, AR, CA, FL, GA, ID, LA, MS, NC, NM, NY, OK, OR, SC, TN, TX, or VA (check map)? YES NO

Did samples originate from a foreign source (internationally, including Hawaii and Puerto Rico)? Yes No

If Yes to either question, fill out a Regulated Soil Checklist (F-LI-C-010) and include with SCUR/COC paperwork.

			COMMENTS:
Chain of Custody Present:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		1.
Chain of Custody Filled Out:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		2.
Chain of Custody Relinquished:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		3.
Sampler Name & Signature on COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input type="checkbox"/> N/A		4.
Samples Arrived within Hold Time:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		5.
Short Hold Time Analysis (<72hr):	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		6.
Rush Turn Around Time Requested:	<input type="checkbox"/> Yes <input checked="" type="checkbox"/> No		7.
Sufficient Volume: (Triple volume provided for MS/MSD)	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		8.
Correct Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		9.
-Pace Containers Used:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		
Containers Intact:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		10.
Filtered volume received for Dissolved tests	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		11. Note if sediment is visible in the dissolved container.
Sample Labels match COC:	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No		12.
-Includes date/time/ID/Analysis Matrix <u>(S)</u> WT Oil			
All containers needing preservation have been checked	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		13. <input type="checkbox"/> HNO ₃ <input type="checkbox"/> H ₂ SO ₄ <input type="checkbox"/> NaOH <input type="checkbox"/> HCl
pH paper Lot #			Sample #
All containers needing preservation are found to be in compliance with EPA recommendation? (HNO ₃ , H ₂ SO ₄ , HCl, NaOH > 9 Sulfide, NaOH > 12 Cyanide)	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Exceptions: VOA, Coliform, TOC/DDC, Oil and Grease, DRO/8015 (water). Per Method, VOA pH is checked after analysis			Initial when completed: Lot # of added preservative: Date/Time preservative added:
Samples checked for dechlorination:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		14. Positive for Res. Chlorine? Y N
KI starch test strips Lot #			
Residual Chlorine strips Lot #			
Headspace in VOA Vials (>6mm):	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		15.
Trip Blank Present:	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		16.
Trip Blank Custody Seals Present	<input type="checkbox"/> Yes <input type="checkbox"/> No <input checked="" type="checkbox"/> N/A		
Pace Trip Blank Lot # (if applicable):			

Client Notification/ Resolution:

Field Data Required? Y / N

Person Contacted:

Date/Time:

Comments/ Resolution:

Pittsburgh Lab Sample Condition Upon Receipt



Client Name: Pace NY

Project # # 30349868

Courier: Fed Ex UPS USPS Client Commercial Pace Other _____

Tracking #: 157496289396

Label	<u>NMR</u>
LIMS Login	<u>NMR</u>

Custody Seal on Cooler/Box Present: yes no Seals Intact: yes no

Thermometer Used 10 Type of Ice: Wet Blue None

Cooler Temperature Observed Temp 5.3 °C Correction Factor: 0 °C Final Temp: 5.3 °C
 Temp should be above freezing to 6°C

Comments:	Yes	No	N/A	pH paper Lot#	Date and Initials of person examining contents:
				<u>NA</u>	<u>NMR 2/13/2020</u>
Chain of Custody Present:	/			1.	
Chain of Custody Filled Out:	/			2.	
Chain of Custody Relinquished:	/			3.	
Sampler Name & Signature on COC:		/		4.	
Sample Labels match COC:	/			5.	
-Includes date/time/ID Matrix: <u>SL</u>					
Samples Arrived within Hold Time:	/			6.	
Short Hold Time Analysis (<72hr remaining):		/		7.	
Rush Turn Around Time Requested:		/		8.	
Sufficient Volume:	/			9.	
Correct Containers Used:	/			10.	
-Pace Containers Used:	/				
Containers Intact:	/			11.	
Orthophosphate field filtered			/	12.	
Hex Cr Aqueous sample field filtered			/	13.	
Organic Samples checked for dechlorination:			/	14.	
Filtered volume received for Dissolved tests			/	15.	
All containers have been checked for preservation.			/	16.	
exceptions: VOA, coliform, TOC, O&G, Phenolics, Radon, <u>Non-aqueous matrix</u>					
All containers meet method preservation requirements.	/			Initial when completed <u>NMR</u>	Date/time of preservation
				Lot # of added preservative	
Headspace in VOA Vials (>6mm):			/	17.	
Trip Blank Present:		/		18.	
Trip Blank Custody Seals Present			/		
Rad Samples Screened < 0.5 mrem/hr			/	Initial when completed:	Date:

Client Notification/ Resolution:
 Person Contacted: _____ Date/Time: _____ Contacted By: _____
 Comments/ Resolution: _____

A check in this box indicates that additional information has been stored in ereports.

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.