

October 01, 2019

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

RE: Project: COMPOST 9/16
Pace Project No.: 70105104

Dear Gordon Eddington:

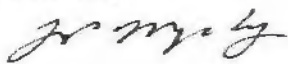
Enclosed are the analytical results for sample(s) received by the laboratory on September 17, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where 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.

Salmonelaa samples were subcontracted to Life Science Laboratories, Inc., 5854 Butternut Drive East Syracuse, NY 13057

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

Sincerely,



James Murphy
james.murphy@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 9/16
Pace Project No.: 70105104

Pennsylvania Certification IDs

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

Long Island Certification IDs

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

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

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SAMPLE ANALYTE COUNT

Project: COMPOST 9/16

Pace Project No.: 70105104

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70105104001	COMPOST PILE #3	EPA 6010C	JMW	10	PACE-MV
		EPA 7471B	JLN	1	PACE-MV
		ASTM D2216-92M	AK1	1	PACE-MV
		SM22 2540G	AK1	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	SDO	1	PACE-MV
		EPA 9056A	BNK	2	PACE-MV
		70105104002	COMPOST PILE #4	EPA 6010C	JMW
EPA 7471B	JLN			1	PACE-MV
ASTM D2216-92M	AK1			1	PACE-MV
SM22 2540G	AK1			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	SDO			1	PACE-MV
EPA 9056A	BNK			2	PACE-MV

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COMPOST 9/16
Pace Project No.: 70105104

Sample: COMPOST PILE #3 **Lab ID: 70105104001** Collected: 09/16/19 12:15 Received: 09/17/19 10:50 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	1.9	mg/kg	0.82	1	09/27/19 11:51	09/30/19 11:37	7440-38-2	
Cadmium	0.75	mg/kg	0.21	1	09/27/19 11:51	09/30/19 11:37	7440-43-9	
Chromium	14.3	mg/kg	0.82	1	09/27/19 11:51	09/30/19 11:37	7440-47-3	
Copper	406	mg/kg	2.1	1	09/27/19 11:51	09/30/19 11:37	7440-50-8	
Lead	20.2	mg/kg	0.41	1	09/27/19 11:51	09/30/19 11:37	7439-92-1	
Molybdenum	6.5	mg/kg	1.6	1	09/27/19 11:51	09/30/19 11:37	7439-98-7	
Nickel	12.4	mg/kg	3.3	1	09/27/19 11:51	09/30/19 11:37	7440-02-0	
Potassium	4880	mg/kg	411	1	09/27/19 11:51	09/30/19 11:37	7440-09-7	
Selenium	5.5	mg/kg	0.82	1	09/27/19 11:51	09/30/19 11:37	7782-49-2	
Zinc	472	mg/kg	1.6	1	09/27/19 11:51	09/30/19 11:37	7440-66-6	
7471 Mercury Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Mercury	0.57	mg/kg	0.061	1	09/25/19 14:05	09/25/19 16:06	7439-97-6	
Percent Moisture Analytical Method: ASTM D2216-92M								
Percent Moisture	33.2	%	0.10	1		09/20/19 17:34		
2540G Total Fixed Vol Solids Analytical Method: SM22 2540G								
Total Solids	68.6	%	0.10	1		09/18/19 16:58		N3
Total Volatile Solids	77.3	%	0.10	1		09/18/19 16:58		N3
4500PE Total Phosphorus Analytical Method: SM22 4500-P E Preparation Method: SM22 4500-P B								
Phosphorus	11400	mg/kg	367	100	09/18/19 09:31	09/18/19 10:52	7723-14-0	
Corrosivity pH, <20% Water Analytical Method: EPA 9045D								
pH	6.4	Std. Units	0.10	1		09/17/19 19:11		
Temperature, Water (C)	22.9	deg C	0.10	1		09/17/19 19:11		
350.1 Ammonia Analytical Method: EPA 350.1 Preparation Method: EPA 350.1								
Nitrogen, Ammonia	6120	mg/kg	151	25	09/30/19 08:15	10/01/19 12:02	7664-41-7	ML
351.2 Total Kjeldahl Nitrogen Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	4230	mg/kg	93.5	5	09/27/19 06:19	09/27/19 12:50	7727-37-9	
9056 IC Anions 48hr Analytical Method: EPA 9056A Preparation Method: EPA 9056A								
Nitrate as N	8.5	mg/kg	1.5	1	09/25/19 20:32	09/26/19 00:29	14797-55-8	
Nitrite as N	ND	mg/kg	1.5	1	09/25/19 20:32	09/26/19 00:29	14797-65-0	

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COMPOST 9/16
Pace Project No.: 70105104

Sample: COMPOST PILE #4 **Lab ID: 70105104002** Collected: 09/16/19 12:15 Received: 09/17/19 10:50 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	2.5	mg/kg	0.97	1	09/27/19 11:51	09/30/19 11:40	7440-38-2	
Cadmium	0.92	mg/kg	0.24	1	09/27/19 11:51	09/30/19 11:40	7440-43-9	
Chromium	18.2	mg/kg	0.97	1	09/27/19 11:51	09/30/19 11:40	7440-47-3	
Copper	494	mg/kg	2.4	1	09/27/19 11:51	09/30/19 11:40	7440-50-8	
Lead	24.7	mg/kg	0.48	1	09/27/19 11:51	09/30/19 11:40	7439-92-1	
Molybdenum	6.5	mg/kg	1.9	1	09/27/19 11:51	09/30/19 11:40	7439-98-7	
Nickel	15.4	mg/kg	3.9	1	09/27/19 11:51	09/30/19 11:40	7440-02-0	
Potassium	4790	mg/kg	483	1	09/27/19 11:51	09/30/19 11:40	7440-09-7	
Selenium	6.2	mg/kg	0.97	1	09/27/19 11:51	09/30/19 11:40	7782-49-2	
Zinc	587	mg/kg	1.9	1	09/27/19 11:51	09/30/19 11:40	7440-66-6	
7471 Mercury		Analytical Method: EPA 7471B Preparation Method: EPA 7471B						
Mercury	0.50	mg/kg	0.062	1	09/25/19 14:05	09/25/19 16:08	7439-97-6	
Percent Moisture		Analytical Method: ASTM D2216-92M						
Percent Moisture	50.8	%	0.10	1		09/20/19 17:35		
2540G Total Fixed Vol Solids		Analytical Method: SM22 2540G						
Total Solids	49.8	%	0.10	1		09/18/19 16:59		N3
Total Volatile Solids	75.9	%	0.10	1		09/18/19 16:59		N3
4500PE Total Phosphorus		Analytical Method: SM22 4500-P E Preparation Method: SM22 4500-P B						
Phosphorus	15000	mg/kg	482	100	09/18/19 09:31	09/18/19 10:53	7723-14-0	
Corrosivity pH, <20% Water		Analytical Method: EPA 9045D						
pH	5.9	Std. Units	0.10	1		09/17/19 19:11		
Temperature, Water (C)	22.9	deg C	0.10	1		09/17/19 19:11		
350.1 Ammonia		Analytical Method: EPA 350.1 Preparation Method: EPA 350.1						
Nitrogen, Ammonia	5610	mg/kg	40.3	5	09/30/19 08:15	10/01/19 11:58	7664-41-7	
351.2 Total Kjeldahl Nitrogen		Analytical Method: EPA 351.2 Preparation Method: EPA 351.2						
Nitrogen, Kjeldahl, Total	6390	mg/kg	254	10	09/27/19 06:19	09/27/19 13:34	7727-37-9	
9056 IC Anions 48hr		Analytical Method: EPA 9056A Preparation Method: EPA 9056A						
Nitrate as N	1650	mg/kg	101	50	09/25/19 20:32	09/26/19 01:02	14797-55-8	
Nitrite as N	ND	mg/kg	2.0	1	09/25/19 20:32	09/26/19 00:45	14797-65-0	

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: COMPOST 9/16

Pace Project No.: 70105104

QC Batch: 131653

Analysis Method: EPA 7471B

QC Batch Method: EPA 7471B

Analysis Description: 7471 Mercury

Associated Lab Samples: 70105104001, 70105104002

METHOD BLANK: 629369

Matrix: Solid

Associated Lab Samples: 70105104001, 70105104002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.033	09/25/19 15:55	

LABORATORY CONTROL SAMPLE: 629370

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.17	0.16	95	80-120	

MATRIX SPIKE SAMPLE: 629371

Parameter	Units	70105094001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.41	0.46	0.83	92	80-120	

SAMPLE DUPLICATE: 629372

Parameter	Units	70105094001 Result	Dup Result	RPD	Qualifiers
Mercury	mg/kg	0.41	0.37	10	

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QUALITY CONTROL DATA

Project: COMPOST 9/16
Pace Project No.: 70105104

QC Batch: 132051 Analysis Method: EPA 6010C
QC Batch Method: EPA 3050B Analysis Description: 6010 MET
Associated Lab Samples: 70105104001, 70105104002

METHOD BLANK: 631222 Matrix: Solid
Associated Lab Samples: 70105104001, 70105104002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	0.50	09/30/19 11:16	
Cadmium	mg/kg	ND	0.12	09/30/19 11:16	
Chromium	mg/kg	ND	0.50	09/30/19 11:16	
Copper	mg/kg	ND	1.2	09/30/19 11:16	
Lead	mg/kg	ND	0.25	09/30/19 11:16	
Molybdenum	mg/kg	ND	1.0	09/30/19 11:16	
Nickel	mg/kg	ND	2.0	09/30/19 11:16	
Potassium	mg/kg	ND	250	09/30/19 11:16	
Selenium	mg/kg	ND	0.50	09/30/19 11:16	
Zinc	mg/kg	ND	1.0	09/30/19 11:16	

LABORATORY CONTROL SAMPLE: 631223

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	202	194	96	80-120	
Cadmium	mg/kg	141	131	93	80-120	
Chromium	mg/kg	167	164	98	80-120	
Copper	mg/kg	108	101	94	80-120	
Lead	mg/kg	73.8	72.5	98	80-120	
Molybdenum	mg/kg	103	100	98	80-120	
Nickel	mg/kg	89.4	85.5	96	80-120	
Potassium	mg/kg	2240	2230	100	70-130	
Selenium	mg/kg	49.9	47.4	95	80-120	
Zinc	mg/kg	264	254	96	80-120	

MATRIX SPIKE SAMPLE: 631225

Parameter	Units	70105094001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	1.1	51.6	49.9	94	75-125	
Cadmium	mg/kg	2.3	5.2	6.9	90	75-125	
Chromium	mg/kg	63.4	25.9	88.2	96	75-125	
Copper	mg/kg	327	25.9	330	15	75-125 M1	
Lead	mg/kg	30.1	51.6	74.7	87	75-125	
Molybdenum	mg/kg	6.1	51.6	56.5	98	75-125	
Nickel	mg/kg	11.1	25.9	36.5	99	75-125	
Potassium	mg/kg	2960	5160	8060	99	75-125	
Selenium	mg/kg	<1.0	77.5	76.5	97	75-125	
Zinc	mg/kg	587	103	661	71	75-125 M1	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: COMPOST 9/16
Pace Project No.: 70105104

SAMPLE DUPLICATE: 631224

Parameter	Units	70105094001 Result	Dup Result	RPD	Qualifiers
Arsenic	mg/kg	1.1	.63J		
Cadmium	mg/kg	2.3	2.2	3	
Chromium	mg/kg	63.4	64.6	2	
Copper	mg/kg	327	333	2	
Lead	mg/kg	30.1	27.2	10	
Molybdenum	mg/kg	6.1	6.9	13	
Nickel	mg/kg	11.1	14.0	23	D6
Potassium	mg/kg	2960	2950	0	
Selenium	mg/kg	<1.0	.94J		
Zinc	mg/kg	587	602	3	

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: COMPOST 9/16
Pace Project No.: 70105104

QC Batch: 131105	Analysis Method: ASTM D2216-92M
QC Batch Method: ASTM D2216-92M	Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 70105104001, 70105104002	

SAMPLE DUPLICATE: 626553

Parameter	Units	30325275002 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	20.7	19.5	6	

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QUALITY CONTROL DATA

Project: COMPOST 9/18

Pace Project No.: 70105104

QC Batch: 130670

Analysis Method: SM22 2540G

QC Batch Method: SM22 2540G

Analysis Description: 2540G Tot Solids/Volatile/Fixed

Associated Lab Samples: 70105104001, 70105104002

SAMPLE DUPLICATE: 624254

Parameter	Units	70105094001 Result	Dup Result	RPD	Qualifiers
Total Solids	%	51.5	53.4	4	N3
Total Volatile Solids	%	73.2	77.8	6	D6,N3

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REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: COMPOST 9/16
Pace Project No.: 70105104

QC Batch: 130533 Analysis Method: SM22 4500-P E
QC Batch Method: SM22 4500-P B Analysis Description: 4500PE Soil Phosphorus
Associated Lab Samples: 70105104001, 70105104002

METHOD BLANK: 623757 Matrix: Solid
Associated Lab Samples: 70105104001, 70105104002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/kg	ND	2.5	09/18/19 10:52	

LABORATORY CONTROL SAMPLE: 623758

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/kg	25	25.2	101	85-115	

MATRIX SPIKE SAMPLE: 623759

Parameter	Units	70105094001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/kg	14000	47.4	14400	898	75-125	M6

SAMPLE DUPLICATE: 623760

Parameter	Units	70105094001 Result	Dup Result	RPD	Qualifiers
Phosphorus	mg/kg	14000	13900	1	

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QUALITY CONTROL DATA

Project: COMPOST 9/16
Pace Project No.: 70105104

QC Batch: 363696 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 70105104001, 70105104002

METHOD BLANK: 1764699 Matrix: Solid
Associated Lab Samples: 70105104001, 70105104002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/kg	ND	4.0	10/01/19 11:52	

LABORATORY CONTROL SAMPLE: 1764700

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/kg	160	156	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1764701 1764702

Parameter	70105104001		MS	MSD	70105104002		MS	MSD	% Rec	MSD	% Rec	% Rec Limits	RPD	Qual
	Units	Result	Spike Conc.	Spike Conc.	Result	Result								
Nitrogen, Ammonia	mg/kg	6120	238	244	5050	6060	-449	-22	90-110	18	ML			

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QUALITY CONTROL DATA

Project: COMPOST 9/16

Pace Project No.: 70105104

QC Batch: 131980

Analysis Method: EPA 351.2

QC Batch Method: EPA 351.2

Analysis Description: 351.2 TKN

Associated Lab Samples: 70105104001, 70105104002

METHOD BLANK: 630983

Matrix: Solid

Associated Lab Samples: 70105104001, 70105104002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	ND	12.5	09/27/19 12:46	

LABORATORY CONTROL SAMPLE: 630984

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	500	548	110	90-110	

MATRIX SPIKE SAMPLE: 630985

Parameter	Units	70105094001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	1530	966	2840	136	90-110	M1

SAMPLE DUPLICATE: 630986

Parameter	Units	70105094001 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	1530	1580	3	

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QUALITY CONTROL DATA

Project: COMPOST 9/16
Pace Project No.: 70105104

QC Batch: 131754 Analysis Method: EPA 9056A
QC Batch Method: EPA 9056A Analysis Description: 9056 IC Anions
Associated Lab Samples: 70105104001, 70105104002

METHOD BLANK: 629788 Matrix: Solid
Associated Lab Samples: 70105104001, 70105104002

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate as N	mg/kg	ND	1.0	09/25/19 22:31	
Nitrite as N	mg/kg	ND	1.0	09/25/19 22:31	

LABORATORY CONTROL SAMPLE: 629789

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/kg	10	9.5	95	90-110	
Nitrite as N	mg/kg	10	10.3	103	90-110	

MATRIX SPIKE SAMPLE: 629869

Parameter	Units	70105841004 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/kg	5.8	9.8	15.7	101	80-120	
Nitrite as N	mg/kg	<0.98	9.8	10.8	109	80-120	

SAMPLE DUPLICATE: 629868

Parameter	Units	70105841004 Result	Dup Result	RPD	Qualifiers
Nitrate as N	mg/kg	5.8	5.9	1	
Nitrite as N	mg/kg	<0.98	ND		

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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without the written consent of Pace Analytical Services, LLC.

QUALIFIERS

Project: COMPOST 9/16

Pace Project No.: 70105104

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

D6 The precision between the sample and sample duplicate exceeded laboratory control limits.

M1 Matrix spike recovery exceeded QC limits. Batch accepted based on laboratory control sample (LCS) recovery.

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.

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA CROSS REFERENCE TABLE

Project: COMPOST 9/16
Pace Project No.: 70105104

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70105104001	COMPOST PILE #3	EPA 3050B	132051	EPA 6010C	132111
70105104002	COMPOST PILE #4	EPA 3050B	132051	EPA 6010C	132111
70105104001	COMPOST PILE #3	EPA 7471B	131653	EPA 7471B	131706
70105104002	COMPOST PILE #4	EPA 7471B	131653	EPA 7471B	131706
70105104001	COMPOST PILE #3	ASTM D2216-92M	131105		
70105104002	COMPOST PILE #4	ASTM D2216-92M	131105		
70105104001	COMPOST PILE #3	SM22 2540G	130670		
70105104002	COMPOST PILE #4	SM22 2540G	130670		
70105104001	COMPOST PILE #3	SM22 4500-P B	130533	SM22 4500-P E	130555
70105104002	COMPOST PILE #4	SM22 4500-P B	130533	SM22 4500-P E	130555
70105104001	COMPOST PILE #3	EPA 9045D	130480		
70105104002	COMPOST PILE #4	EPA 9045D	130480		
70105104001	COMPOST PILE #3	EPA 350.1	363696	EPA 350.1	363992
70105104002	COMPOST PILE #4	EPA 350.1	363696	EPA 350.1	363992
70105104001	COMPOST PILE #3	EPA 351.2	131980	EPA 351.2	132010
70105104002	COMPOST PILE #4	EPA 351.2	131980	EPA 351.2	132010
70105104001	COMPOST PILE #3	EPA 9056A	131754	EPA 9056A	131758
70105104002	COMPOST PILE #4	EPA 9056A	131754	EPA 9056A	131758

REPORT OF LABORATORY ANALYSIS

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WO#: 70105104

PM: JM2 Due Date: 10/01/19

CLIENT: MCSV

USE ONLY

Chain-of-Custody is a LEGAL DOCUMENT- Complete all relevant fields

Company: PACE Analytical

Billing Information:

Address: 575 Broad Hollow Rd Melville, NY 11747

Report To: NYSUB@PACELABS.COM

Email To:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other

Copy To:

Site Collection Info/Address:

Analyses

LAB Profile/Line:

Customer Project Name/Number: MANCHESTER SHORTSVILLE WWTP

State County/City Time Zone Collected / PT MT CT ET

LAB Sample Receipt Checklist:

Phone:

Site/Facility ID #

Compliance Monitoring? [] Yes [] No

Custody Seals Present/Intact	Y	N	NA
Custody Signatures Present	Y	N	NA
Collector Signature Present	Y	N	NA
Bottles intact	Y	N	NA
Correct Bottles	Y	N	NA
Sufficient Volume	Y	N	NA
Samples received on ice	Y	N	NA
VOA - Headspace Acceptable	Y	N	NA
USDA Regulated Soils	Y	N	NA
Samples in holding time	Y	N	NA
Residual Chlorine Present	Y	N	NA
Cl Strips:			
Sample pH Acceptable	Y	N	NA
pH Strips:			
Sulfide Present	Y	N	NA
Lead Acetate Strips:			

Email:

Purchase Order #091619JM2001

DW PWS ID #:

Collected by (print):

Quote #

DW Location Code #:

Collected by (signature):

Turnaround Date Required:

Immediately Packed on Ice? [] Yes [] No

Sample Disposal:

RUSH: Next Day 2 Day 3 Day 4 Day 5 Day (Expedite Charges Apply)

Field Filtered (if applicable): [] Yes [] No

[] Dispose as appropriate [] Return

[] Archive

Analysis:

[] Hold

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix	Comp/Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Cms	SALMONELLA
			Date	Time	Date	Time			
Compost Pile #3	SL	G	9/16	12:15	9/16	12:15	1	X	
Compost Pile #4	SL	G	9/16	12:15	9/16	12:15	1	X	

LAB USE ONLY: Lab Sample # / Comments

samples Received

On Ice

Customer Remarks/ Special Conditions/ Possible Hazards: SALMONELLA SUBBED TO LSL

Type of Ice Used: Wet [] Blue [] Dry [] None []

SHORT HOLDS PRESENT (< 72 hours): Y N N/A

LAB Sample Temperature Info:

Packing Material Used:

LAB Tracking #:

MTJL LAB USE ONLY

Temp Blank received: Y N NA

Radchem sample(s) screened: (<500 cpm): [] Y [] N [] NA

Samples received via: FEDEX [] UPS [] Client [] Courier [] Pace Courier []

Table #:

Therm ID #:

Relinquished by/Company: (Signature)

Date/Time: 9/16/19 14:15

Received by/Company: (Signature)

ACCT #:

Cooler 1 Temp Upon Receipt 4.0 °C

Relinquished by/Company: (Signature)

Date/Time: 9/16/19 14:15

Received by/Company: (Signature)

Template:

Cooler 1 Therm Corr. Factor °C

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Prelogin:

Cooler 1 Corrected Temp °C

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

PM:

Comments:

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

PB:

Trip Blank Received: Y N N/A

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

NonConformance(s)

HCL MeOH TSP Other

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Page

YES / NO of



Sample Condition Upon Receipt

WO#: 70105104

Client Name:

MCSV

PM: JM2 Due Date: 10/01/19

CLIENT: MCSV

Courier: Fed Ex UPS USPS Client Commercial Pace Other

Tracking #: 7162 5117 4110

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

Packing Material: Bubble Wrap Bubble Bags Ziploc None Other

Thermometer Used: TH09

Correction Factor: +0.2

Cooler Temperature (°C): 2.9

Cooler Temperature Corrected (°C): 3.1

Temperature Blank Present: Yes No

Type of Ice: Wet Blue None

Samples on ice, cooling process has begun

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: KLV 9/17/19

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 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 SL 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	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# 091619JM2001

Laboratory Analysis Report

For

PACE Analytical Inc.

Client Project ID:

Manchester Shortsville WWTP

LSL Project ID: **1915644**

Receive Date/Time: 09/16/19 14:15

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
Fax (315) 445-1104

LSL North Lab
131 St. Lawrence Avenue
Waddington, NY 13694
Tel. (315) 388-4476
Fax (315) 388-4061

LSL Finger Lakes Lab
16 N. Main St., PO Box 424
Wayland, NY 14572
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

LaDonna Kibler
LaDonna Kibler, Quality Assurance

This report was reviewed by: _____

Date: _____

9/24/19

A copy of this report was sent to:

Page 1 of 2

Date Printed:

9/24/19
Page 21 of 23

- - LABORATORY ANALYSIS REPORT - -

PACE Analytical Inc. Melville, NY

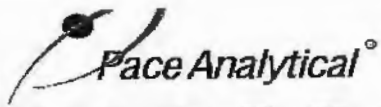
Sample ID: Compost Pile # 3 **LSL Sample ID:** 1915644-001
Location:
Sampled: 09/16/19 12:15 **Sampled By:**
Sample Matrix: SHW Dry Wt, Compost

Analytical Method	Prep Method	Prep Date	Analysis Date & Time	Analyst Initials
Analyte	Result Units			
(1) EPA 1682(2014) Salmonella by MSRV				
Salmonella	<3 MPN/4g Dry		9/16/19 15:30	DA
(1) SM 2540 B-2011 Total Solids				
Total Solids @ 103-105 C	57 %		9/17/19	TER
<i>Due to a lab error samples 1 and 2 were combined prior to moisture determination. Therefore the result is a combined value and should be considered an estimate.</i>				

Sample ID: Compost Pile # 4 **LSL Sample ID:** 1915644-002
Location:
Sampled: 09/16/19 12:15 **Sampled By:**
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 MSRV				
Salmonella	<3 MPN/4g Dry		9/16/19 15:30	DA
(1) SM 2540 B-2011 Total Solids				
Total Solids @ 103-105 C	57 %		9/17/19	TER
<i>Due to a lab error samples 1 and 2 were combined prior to moisture determination. Therefore the result is a combined value and should be considered an estimate.</i>				

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



1915644

PACE_Melville

7347

ALL SHADE

LY

Chain-of-Custody is a LEGAL DOCUMENT - Complete all relevant fields

Company: PACE Analytical

Billing Information:

Address: 575 Broad Hollow Rd Melville, NY 11747

Report To: NYSUB@PACELABS.COM

Email To:

** Preservative Types: (1) nitric acid, (2) sulfuric acid, (3) hydrochloric acid, (4) sodium hydroxide, (5) zinc acetate, (6) methanol, (7) sodium bisulfate, (8) sodium thiosulfate, (9) hexane, (A) ascorbic acid, (B) ammonium sulfate, (C) ammonium hydroxide, (D) TSP, (U) Unpreserved, (O) Other _____

Copy To:

Site Collection Info/Address:

Analyses

LAB Profile/Line:

Customer Project Name/Number: MANCHESTER SHORTSVILLE WWTP

State County/City Time Zone Collected

Phone: Site/Facility ID #

Compliance Monitoring? [] Yes [] No

Collected by (print):

Purchase Order #091619J2001

DW PWS ID #:

Collected by (signature):

Quote #

DW Location Code #:

Sample Disposal: [] Dispose as appropriate [] Return [] Archive [] Field

Turnaround Date Required: RUSH: Next Day 5 Day (Expedite Charges Apply) Same Day 2 Day 3 Day 4 Day

Immediately Packed on Ice? [] Yes [] No Field Filtered (If applicable): [] Yes [] No Analysis: _____

* Matrix Codes (Insert in Matrix box below): Drinking Water (DW), Ground Water (GW), Wastewater (WW), Product (P), Soil/Solid (SL), Oil (OL), Wipe (WP), Air (AR), Tissue (TS), Bioassay (B), Vapor (V), Other (OT)

Customer Sample ID	Matrix*	Comp/Grab	Collected (or Composite Start)		Composite End		Res Cl	# of Ctns
			Date	Time	Date	Time		
COMPOST PILE #3	SL	G	9/16	12:15			1	X
COMPOST PILE #4	SL	G	9/16	12:15			1	X

SALMONELLA

LAB Sample Receipt Checklist:

Custody Seals Present/Intact:	Y	N	NA
Custody Signatures Present:	Y	N	NA
Collector Signatures Present:	Y	N	NA
Bottles Intact:	Y	N	NA
Correct Bottles:	Y	N	NA
Sufficient Volume:	Y	N	NA
Samples received on ice:	Y	N	NA
VQA - Headspace Acceptable:	Y	N	NA
USDA Registered Bolls:	Y	N	NA
Samples in holding time:	Y	N	NA
Residual Chlorine Present:	Y	N	NA
Cl Strips:			
Sample pH Acceptable:	Y	N	NA
pH Strips:			
Sulfide Present:	Y	N	NA
Lead Acetate Strips:			

LAB USE ONLY: Lab Sample # / Comments

Customer Remarks/ Special Conditions/ Possible Hazards: SALMONELLA SUBBED TO LSL

Type of Ice Used: Wet [] Blue [] Dry [] Nonref []

SHORT HOLDS PRESENT (< 72 hours): Y N NA

LAB Sample Temperature info:

Packing Material Used:

LAB Tracking #:

MTJL LAB USE ONLY

Temp Blank received: Y N NA

Radchem sample(s) screened: (<500 cpm): [] Y [] N [] NA

Samples received via: FEDEX [] UPS [] Client [] Courier [] Pace Courier []

Table #:

Therm ID #: 4.0

Relinquished by/Company: (Signature)

Date/Time: 9/16/19 14:15

Received by/Company: (Signature) LSL

Date/Time: 9-16-19 14:15

ACCT #:

Cooler 1 Temp Upon Receipt: 4.0 °C

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

Template:

Cooler 1 Therm Corr. Factor: °C

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

Prelogin:

Cooler 1 Corrected Temp: °C

Relinquished by/Company: (Signature)

Date/Time:

Received by/Company: (Signature)

Date/Time:

PW:

Comments: