

November 27, 2019

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

RE: Project: COMPOST 11/12
Pace Project No.: 70111606

Dear Gordon Eddington:

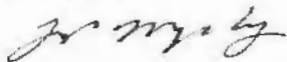
Enclosed are the analytical results for sample(s) received by the laboratory on November 13, 2019. The results relate only to the samples included in this report. Results reported herein conform to the most current, applicable TNI/NELAC standards and the laboratory's Quality Assurance Manual, where applicable, 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.

Salmonella 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 11/12
Pace Project No.: 70111606

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 #: LA160012
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

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SAMPLE ANALYTE COUNT

Project: COMPOST 11/12
Pace Project No.: 70111606

Lab ID	Sample ID	Method	Analysts	Analytes Reported	Laboratory
70111606001	COMPOST PILE #6	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
70111606002	COMPOST PILE #6	ASTM D2216-92M	AK1	1	PACE-MV

REPORT OF LABORATORY ANALYSIS

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ANALYTICAL RESULTS

Project: COMPOST 11/12

Pace Project No.: 70111606

Sample: COMPOST PILE #6 **Lab ID: 70111606001** Collected: 11/12/19 10:35 Received: 11/13/19 10:30 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
6010 MET ICP Analytical Method: EPA 6010C Preparation Method: EPA 3050B								
Arsenic	2.0	mg/kg	0.95	1	11/14/19 10:01	11/15/19 17:39	7440-38-2	
Cadmium	0.90	mg/kg	0.24	1	11/14/19 10:01	11/15/19 17:39	7440-43-9	
Chromium	13.5	mg/kg	0.95	1	11/14/19 10:01	11/15/19 17:39	7440-47-3	
Copper	455	mg/kg	2.4	1	11/14/19 10:01	11/15/19 17:39	7440-50-8	
Lead	20.5	mg/kg	0.48	1	11/14/19 10:01	11/15/19 17:39	7439-92-1	
Molybdenum	6.2	mg/kg	1.9	1	11/14/19 10:01	11/15/19 17:39	7439-98-7	
Nickel	15.6	mg/kg	3.8	1	11/14/19 10:01	11/15/19 17:39	7440-02-0	
Potassium	4560	mg/kg	477	1	11/14/19 10:01	11/15/19 17:39	7440-09-7	
Selenium	5.8	mg/kg	0.95	1	11/14/19 10:01	11/15/19 17:39	7782-49-2	
Zinc	582	mg/kg	1.9	1	11/14/19 10:01	11/15/19 17:39	7440-66-6	
7471 Mercury Analytical Method: EPA 7471B Preparation Method: EPA 7471B								
Mercury	0.30	mg/kg	0.088	1	11/25/19 10:32	11/25/19 15:06	7439-97-6	
Percent Moisture Analytical Method: ASTM D2216-92M								
Percent Moisture	47.2	%	0.10	1		11/13/19 19:51		
2540G Total Fixed Vol Solids Analytical Method: SM22 2540G								
Total Solids	46.6	%	0.10	1		11/14/19 16:32		N3
Total Volatile Solids	78.4	%	0.10	1		11/14/19 16:32		N3
4500PE Total Phosphorus Analytical Method: SM22 4500-P E Preparation Method: SM22 4500-P B								
Phosphorus	14600	mg/kg	499	100	11/14/19 09:36	11/14/19 10:58	7723-14-0	M6
Corrosivity pH, <20% Water Analytical Method: EPA 9045D								
pH	6.6	Std. Units	0.10	1		11/13/19 14:56		
Temperature, Water (C)	24.3	deg C	0.10	1		11/13/19 14:56		
350.1 Ammonia Analytical Method: EPA 350.1 Preparation Method: EPA 350.1								
Nitrogen, Ammonia	8140	mg/kg	367	50	11/22/19 07:07	11/22/19 16:23	7664-41-7	
351.2 Total Kjeldahl Nitrogen Analytical Method: EPA 351.2 Preparation Method: EPA 351.2								
Nitrogen, Kjeldahl, Total	5000	mg/kg	118	5	11/23/19 07:17	11/23/19 12:09	7727-37-9	
9056 IC Anions 48hr Analytical Method: EPA 9056A Preparation Method: EPA 9056A								
Nitrate as N	760	mg/kg	189	100	11/20/19 20:41	11/21/19 08:18	14797-55-8	
Nitrite as N	ND	mg/kg	1.9	1	11/20/19 20:41	11/21/19 08:01	14797-65-0	

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ANALYTICAL RESULTS

Project: COMPOST 11/12

Pace Project No.: 70111606

Sample: COMPOST PILE #6 **Lab ID: 70111606002** Collected: 11/12/19 10:35 Received: 11/13/19 10:30 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 D2216-92M							
Percent Moisture	47.2	%	0.10	1		11/13/19 20:15		

REPORT OF LABORATORY ANALYSIS

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QUALITY CONTROL DATA

Project: COMPOST 11/12
Pace Project No.: 70111606

QC Batch: 139902 Analysis Method: EPA 7471B
QC Batch Method: EPA 7471B Analysis Description: 7471 Mercury
Associated Lab Samples: 70111606001

METHOD BLANK: 670471 Matrix: Solid
Associated Lab Samples: 70111606001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Mercury	mg/kg	ND	0.033	11/25/19 14:23	

LABORATORY CONTROL SAMPLE: 670472

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.17	0.16	99	80-120	

MATRIX SPIKE SAMPLE: 670473

Parameter	Units	70111402002 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Mercury	mg/kg	0.038J	0.24	0.28	102	80-120	

SAMPLE DUPLICATE: 670474

Parameter	Units	70111402002 Result	Dup Result	RPD	Qualifiers
Mercury	mg/kg	0.038J	.031J		

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QUALITY CONTROL DATA

Project: COMPOST 11/12
Pace Project No.: 70111606

QC Batch: 138550 Analysis Method: EPA 6010C
QC Batch Method: EPA 3050B Analysis Description: 6010 MET
Associated Lab Samples: 70111606001

METHOD BLANK: 663415 Matrix: Solid
Associated Lab Samples: 70111606001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Arsenic	mg/kg	ND	0.50	11/15/19 16:34	
Cadmium	mg/kg	ND	0.12	11/15/19 16:34	
Chromium	mg/kg	ND	0.50	11/15/19 16:34	
Copper	mg/kg	ND	1.2	11/15/19 16:34	
Lead	mg/kg	ND	0.25	11/15/19 16:34	
Molybdenum	mg/kg	ND	1.0	11/15/19 16:34	
Nickel	mg/kg	ND	2.0	11/15/19 16:34	
Potassium	mg/kg	ND	250	11/15/19 16:34	
Selenium	mg/kg	ND	0.50	11/15/19 16:34	
Zinc	mg/kg	ND	1.0	11/15/19 16:34	

LABORATORY CONTROL SAMPLE: 663416

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	125	128	102	80-120	
Cadmium	mg/kg	37.7	33.2	88	80-120	
Chromium	mg/kg	58.3	61.5	105	80-120	
Copper	mg/kg	78	80.0	103	80-120	
Lead	mg/kg	111	118	106	80-120	
Molybdenum	mg/kg	78	80.5	103	80-120	
Nickel	mg/kg	333	324	97	80-120	
Potassium	mg/kg	1970	2060	105	70-130	
Selenium	mg/kg	251	248	99	80-120	
Zinc	mg/kg	351	352	100	80-120	

MATRIX SPIKE SAMPLE: 663418

Parameter	Units	70111436001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Arsenic	mg/kg	<0.51	27.3	18.0	65	75-125	M1
Cadmium	mg/kg	<0.13	2.7	1.9	69	75-125	M1
Chromium	mg/kg	<0.51	13.6	9.4	69	75-125	M1
Copper	mg/kg	<1.3	13.6	12.0	84	75-125	
Lead	mg/kg	<0.26	27.3	18.8	69	75-125	M1
Molybdenum	mg/kg	<1.0	27.3	18.7	68	75-125	M1
Nickel	mg/kg	<2.1	13.6	9.4	69	75-125	M1
Potassium	mg/kg	<257	2730	1730	62	75-125	M1
Selenium	mg/kg	<0.51	40.9	27.5	66	75-125	M1
Zinc	mg/kg	4.1	54.6	41.8	69	75-125	M1

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QUALITY CONTROL DATA

Project: COMPOST 11/12
Pace Project No.: 70111606

SAMPLE DUPLICATE: 663417

Parameter	Units	70111436001 Result	Dup Result	RPD	Qualifiers
Arsenic	mg/kg	<0.51	ND		
Cadmium	mg/kg	<0.13	ND		
Chromium	mg/kg	<0.51	.12J		
Copper	mg/kg	<1.3	4.2		
Lead	mg/kg	<0.26	ND		
Molybdenum	mg/kg	<1.0	ND		
Nickel	mg/kg	<2.1	ND		
Potassium	mg/kg	<257	35.9J		
Selenium	mg/kg	<0.51	.29J		
Zinc	mg/kg	4.1	5.3	27	D6

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QUALITY CONTROL DATA

Project: COMPOST 11/12
Pace Project No.: 70111606

QC Batch: 138474 Analysis Method: ASTM D2216-92M
QC Batch Method: ASTM D2216-92M Analysis Description: Dry Weight/Percent Moisture
Associated Lab Samples: 70111606001, 70111606002

SAMPLE DUPLICATE: 663058

Parameter	Units	70111634005 Result	Dup Result	RPD	Qualifiers
Percent Moisture	%	14.9	14.8	1	

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QUALITY CONTROL DATA

Project: COMPOST 11/12

Pace Project No.: 70111606

QC Batch: 138642

Analysis Method: SM22 2540G

QC Batch Method: SM22 2540G

Analysis Description: 2540G Tot Solids/Volatile/Fixed

Associated Lab Samples: 70111606001

SAMPLE DUPLICATE: 663966

Parameter	Units	70111702004 Result	Dup Result	RPD	Qualifiers
Total Solids	%	23.1	23.1		0 N3
Total Volatile Solids	%	77.4	77.4		0 N3

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QUALITY CONTROL DATA

Project: COMPOST 11/12
Pace Project No.: 70111606

QC Batch: 138490 Analysis Method: SM22 4500-P E
QC Batch Method: SM22 4500-P B Analysis Description: 4500PE Soil Phosphorus
Associated Lab Samples: 70111606001

METHOD BLANK: 663254 Matrix: Solid
Associated Lab Samples: 70111606001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Phosphorus	mg/kg	ND	2.5	11/14/19 10:58	

LABORATORY CONTROL SAMPLE: 663255

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/kg	25	24.7	99	85-115	

MATRIX SPIKE SAMPLE: 663256

Parameter	Units	70111606001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Phosphorus	mg/kg	14600	48.3	14900	766	75-125 M6	

SAMPLE DUPLICATE: 663257

Parameter	Units	70111606001 Result	Dup Result	RPD	Qualifiers
Phosphorus	mg/kg	14600	14600	1	

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QUALITY CONTROL DATA

Project: COMPOST 11/12
Pace Project No.: 70111606

QC Batch: 138406	Analysis Method: EPA 9045D
QC Batch Method: EPA 9045D	Analysis Description: 9045D Corrosivity pH in Soil
Associated Lab Samples: 70111606001	

SAMPLE DUPLICATE: 662699

Parameter	Units	70111513001 Result	Dup Result	RPD	Qualifiers
pH	Std. Units	5.8	5.8	0	
Temperature, Water (C)	deg C	24.3	24.3	0	

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QUALITY CONTROL DATA

Project: COMPOST 11/12
Pace Project No.: 70111606

QC Batch: 372309 Analysis Method: EPA 350.1
QC Batch Method: EPA 350.1 Analysis Description: 350.1 Ammonia
Associated Lab Samples: 70111606001

METHOD BLANK: 1806588 Matrix: Solid
Associated Lab Samples: 70111606001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Ammonia	mg/kg	ND	4.0	11/22/19 16:18	

LABORATORY CONTROL SAMPLE: 1806589

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Ammonia	mg/kg	160	157	98	90-110	

MATRIX SPIKE & MATRIX SPIKE DUPLICATE: 1806590 1806591

Parameter	Units	30334362001		1806590		1806591		% Rec Limits	RPD	Qual
		MS Spike Conc.	MSD Spike Conc.	MS Result	MSD Result	MS % Rec	MSD % Rec			
Nitrogen, Ammonia	mg/kg	8710	1040	1020	11600	12600	276	378	90-110	8 MH

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QUALITY CONTROL DATA

Project: COMPOST 11/12
Pace Project No.: 70111606

QC Batch: 139753 Analysis Method: EPA 351.2
QC Batch Method: EPA 351.2 Analysis Description: 351.2 TKN
Associated Lab Samples: 70111606001

METHOD BLANK: 669592 Matrix: Solid
Associated Lab Samples: 70111606001

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	ND	12.5	11/23/19 12:04	

LABORATORY CONTROL SAMPLE: 669593

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	500	525	105	90-110	

MATRIX SPIKE SAMPLE: 669594

Parameter	Units	70111220001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	2640	2110	5150	119	90-110	M1

SAMPLE DUPLICATE: 669595

Parameter	Units	70111220001 Result	Dup Result	RPD	Qualifiers
Nitrogen, Kjeldahl, Total	mg/kg	2640	2690	2	

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QUALITY CONTROL DATA

Project: COMPOST 11/12
Pace Project No.: 70111606

QC Batch: 139426 Analysis Method: EPA 9056A
QC Batch Method: EPA 9056A Analysis Description: 9056 IC Anions
Associated Lab Samples: 70111606001

METHOD BLANK: 668169
Associated Lab Samples: 70111606001

Matrix: Solid

Parameter	Units	Blank Result	Reporting Limit	Analyzed	Qualifiers
Nitrate as N	mg/kg	ND	1.0	11/21/19 04:24	
Nitrite as N	mg/kg	ND	1.0	11/21/19 04:24	

LABORATORY CONTROL SAMPLE: 668170

Parameter	Units	Spike Conc.	LCS Result	LCS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/kg	10	9.3	93	90-110	
Nitrite as N	mg/kg	10	10.5	105	90-110	

MATRIX SPIKE SAMPLE: 668201

Parameter	Units	70111220001 Result	Spike Conc.	MS Result	MS % Rec	% Rec Limits	Qualifiers
Nitrate as N	mg/kg	<4.2	41.4	39.6	95	80-120	
Nitrite as N	mg/kg	<4.2	41.4	45.6	106	80-120	

SAMPLE DUPLICATE: 668200

Parameter	Units	70111220001 Result	Dup Result	RPD	Qualifiers
Nitrate as N	mg/kg	<4.2	ND		
Nitrite as N	mg/kg	<4.2	1.7J		

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QUALIFIERS

Project: COMPOST 11/12
Pace Project No.: 70111606

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.
MH Matrix spike recovery and/or matrix spike duplicate recovery was above laboratory control limits. Result may be biased high.
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 11/12
Pace Project No.: 70111606

Lab ID	Sample ID	QC Batch Method	QC Batch	Analytical Method	Analytical Batch
70111606001	COMPOST PILE #6	EPA 3050B	138550	EPA 6010C	138628
70111606001	COMPOST PILE #6	EPA 7471B	139902	EPA 7471B	139939
70111606001	COMPOST PILE #6	ASTM D2216-92M	138474		
70111606002	COMPOST PILE #6	ASTM D2216-92M	138474		
70111606001	COMPOST PILE #6	SM22 2540G	138642		
70111606001	COMPOST PILE #6	SM22 4500-P B	138490	SM22 4500-P E	138539
70111606001	COMPOST PILE #6	EPA 9045D	138406		
70111606001	COMPOST PILE #6	EPA 350.1	372309	EPA 350.1	372400
70111606001	COMPOST PILE #6	EPA 351.2	139753	EPA 351.2	139837
70111606001	COMPOST PILE #6	EPA 9056A	139426	EPA 9056A	139434

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WO#: 70111606

CHAIN-OF-CUSTODY / Analytical Request Document

The Chain-of-Custody is a LEGAL DOCUMENT. All relevant fields must be completed accurately.



70111606

Page: 1 of 2

Section C Invoice Information: Attention:

Company: *Manassas Park WW* Report To: *Gordon Edgington*

Address: *3780 Pt. A6* Copy To:

Manassas, NY Company Name:

Email To: *gedding1@yahoo.com* Purchase Order No.:

Phone: *516-223-1100* Project Name:

Requested Due Date/TAT: Project Number:

REGULATORY AGENCY

NPDES GROUND WATER DRINKING WATER

UST RCRA OTHER

Site Location STATE: _____

ITEM #	Section D Required Client Information	Matrix Codes MATRIX / CODE	COLLECTED		SAMPLE TEMP AT COLLECTION	# OF CONTAINERS	Preservatives								Analysis Test ↓ <i>Part 260</i>	Residual Chlorine (Y/N)	Face Project No./ Lab I.D.		
			DATE	TIME			DATE	TIME	Unpreserved	H ₂ SO ₄	HNO ₃	HCl	NaOH	Na ₂ S ₂ O ₃				Methanol	Other
1	<i>Compost Pile #6</i>	<i>SLG</i>	<i>11/12/19</i>	<i>10:25</i>		<i>4</i>	<i>1</i>												
2																			
3	<i>Compost Pile #6</i>	<i>SLG</i>	<i>11/12/19</i>	<i>10:35</i>		<i>4</i>	<i>1</i>									<i>002</i>			
4																			
5																			
6																			
7																			
8																			
9																			
10																			
11																			
12																			

ADDITIONAL COMMENTS	RELINQUISHED BY / AFFILIATION	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS
<i>SALMONELLA SUB CONTRACTED TO LSL</i>	<i>Gordon Edgington</i>	<i>11/12/19</i>	<i>10:35</i>	<i>AMY M. PACE</i>	<i>11/12/19</i>	<i>10:35</i>	
	<i>AMY M. PACE</i>	<i>11/12/19</i>	<i>17:00</i>	<i>[Signature]</i>	<i>11/13/19</i>	<i>10:30</i>	<i>27</i> <i>Y</i> <i>Y</i> <i>Y</i>

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ORIGINAL

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER: *Gordon Edgington*

SIGNATURE of SAMPLER: *[Signature]* DATE Signed (MM/DD/YY): *11/12/19*

Temp in °C

Received on ice (Y/N)

Custody Sealed Cooler (Y/N)

Samples Intact (Y/N)



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:	nysub@pacelabs.com
Address	575 Broad Hollow Rd	Copy To		Company Name:	
	Melville, NY 11747			Address:	
Email To	NYSUB@PACELABS.COM	Purchase Order No	111219JM2003	Pace Quote Reference	
Phone:		Project Name	MANCHESTER	Pace Project Manager	James Murphy
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		GA	IL	N	MI NC
		OH	SC	VI	OTHER_NY

Section D Required Client Info:	Matrix Code MATRIX CODE	COLLECTED		PRESERVATIVES	Filtered (Y/N)	Requested Analysis:
		DATE	TIME			
SAMPLE ID Compost Pile #6		11/12	10:55			

APPROVED FOR SUBMITTAL	RECEIVED BY (BY AFFILIATION)	DATE	TIME	ACCEPTED BY / AFFILIATION	DATE	TIME	SAMPLE CONDITIONS			
	Jamy PACE	11/12/19	12:40	R. [Signature]				Y/N	Y/N	Y/N
								Y/N	Y/N	Y/N
								Y/N	Y/N	Y/N
								Y/N	Y/N	Y/N

Temp in °C

Received on Ice

Custody Sealed Cooler

Samples Intact

SAMPLER NAME AND SIGNATURE

PRINT Name of SAMPLER:

SIGNATURE of SAMPLER:

DATE Signed (MM / DD / YY)

Samples Received
On Ice



Sample Condition Upon Receipt

Client Name: MCSV

Pro WO#: 70111606

PM: JM2 Due Date: 11/27/19
CLIENT: MCSV

Courier: Fed Ex UPS USPS Client Commercial Pace Other
Tracking #: 7769 6484 4684
Custody Seal on Cooler/Box Present: Yes No Seals intact: Yes No
Packing Material: Bubble Wrap Bubble Bags Ziploc None Other
Thermometer Used: (H091) Correction Factor: +0.2
Cooler Temperature (°C): 27 Cooler Temperature Corrected (°C): 29

Temperature Blank Present: Yes No
Type of Ice: Well 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: JK 11/13/19

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 type="checkbox"/> Yes <input type="checkbox"/> No		2.
Chain of Custody Refiniquished:	<input 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 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 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 type="checkbox"/> Yes <input checked="" type="checkbox"/> No		12. COC says 11/12/18 but bottles say 11/12/19, logged per current year on bottles
-Includes date/time/ID/Analysis Matrix SL WT OIL			
All containers needing preservation have been checked	<input checked="" type="checkbox"/> Yes <input type="checkbox"/> No <input 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 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# 111219JM2003

Laboratory Analysis Report

For

PACE Analytical Inc.

Client Project ID:

Manchester

LSL Project ID: 1918869

Receive Date/Time: 11/12/19 12:41

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.

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

This report was reviewed by:

Date:

11/22/19

David J. Prichard, Director of Tech. Services

A copy of this report was sent to:

Date Printed:

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11/21/19
Page 21 of 23

-- LABORATORY ANALYSIS REPORT --

PACE Analytical Inc. Melville, NY

Sample ID: Manchester LSL Sample ID: 1918869-001
Location: Compost Pile #6
Sampled: 11/12/19 10:35 Sampled By: Not Provided

Sample Matrix: SHW Dry Wt, Compost

Analytical Method	Result	Prep Method	Prep Date	Analysis Date & Time	Analyst Initials
Analyte		Units			
(1) EPA 1682(2014) Salmonella by MSRV					
Salmonella	<3	MPN/4g Dry		11/12/19 15:00	DA
<i>The NYSDOH ELAP does not offer certification for this analyte.</i>					
(1) SM 2540 B-2011 Total Solids					
Total Solids @ 103-105 C	57	%		11/18/19	ARJ
<i>The NYSDOH ELAP does not offer certification for this analyte in this matrix.</i>					

